

ADDENDUM NO. 3

TO

RED CLAY CONSOLIDATED SCHOOL DISTRICT
LINDEN HILL RENOVATIONS
BID PACKAGE 'A'

This addendum is hereby made part of the Project Manual and Drawings dated January 23, 2015.

The Project Manual and Drawings shall be supplemented or amended as specified herein.

This Addendum contains changes to the requirement of the Project Manual. Such changes shall be incorporated into the Contract Documents and shall apply to work with the same meaning and force as if they had been included in the original Documents. Whenever this Addendum modifies a portion of a paragraph of the Project Manual, the remainder of the paragraph affected shall remain in force. Added information is shown as **Bold**, deleted information is shown as ~~striketrough~~.

This Addendum contains changes to the requirement of the Drawings. Such changes shall be incorporated into the Contract Documents and shall apply to work with the same meaning and force as if they had been included in the original Documents. Whenever this Addendum modifies a portion of any drawing, the remainder of the drawing affected shall remain in force. Added, deleted or revised information is shown as "clouded".

The conditions and terms of the basic Contract Documents shall govern work unless otherwise described in this Addendum. Whenever the conditions of work, and the quality or quantity of materials, or workmanship are not fully described in this Addendum, the conditions of work included in the basic Contract Documents for similar items of work shall apply to the work described in this Addendum.

If no similar items of work are included in the basic Contract Document, the best quality of material and workmanship shall apply and all work shall be subject to the written acceptance of the Architect.

THE BID OPENING DATE REMAINS THE SAME. ALL BIDS ARE DUE AT THE RED CLAY CONSOLIDATED SCHOOL DISTRICT OFFICE 1798 LIMESTONE RD, WILMINGTON, DELAWARE 19804 UNTIL 2:00 P.M. LOCAL TIME ON MARCH 12, 2015.

BIDDERS ARE ADVISED THAT THE ONLY RELIABLE SOURCE OF DOCUMENTS FOR THIS SOLICITATION IS THE EDIS FTP SITE. BIDDERS THAT RELY ON INFORMATION PUBLISHED ON ANY OTHER COMMERCIAL WEBSITES DO SO AT THEIR OWN RISK.



Addendum No. 3
March 10, 2015

Addendum No. 3 – Consists of the following:

- I. Response to Bidders' Questions
- II. Revisions to Project Manual/Specifications
- III. Clarifications
- IV. Revisions to Drawings

**I. RESPONSES TO BIDDERS' QUESTIONS**

The following clarification is requested for the construction documents:

NONE.

II. REVISIONS TO PROJECT MANUAL/SPECIFICATIONS**A. SECTION 004100 – BID FORMS**

1. **Contract 01 - CARPENTRY AND GENERAL WORKS** - DELETE this section in its entirety and INSERT new section attached.
2. **Contract 02 – WINDOWS/GLASS & GLAZING** - DELETE this section in its entirety and INSERT new section attached

B. SECTION 011100 – SUMMARY OF WORK – DELETE this section in its entirety and INSERT new section attached

C. SECTION 012300 – ALTERNATES

1. ADD the following Alternate No. 2: SECURE VESTIBULE including all work associated with the following details: 2/A3.4, 3/A3.4, 2/E9.1, and 2/E9.2., and all corresponding demolition work. Work associated with Door C6A to remain in base bid.
2. ADD the following Alternate No. 3: NEW SHEATHING WITH ACRYLIC FINISH & ALUMINUM FASCIA: Include Note C-6 and C-7 on drawing 4.1 and 4.2 and CD-8 on drawing A2.6.

III. CLARIFICATIONS

The following clarification is requested for the construction documents:

A. The caulking of windows and storefront at the head, jamb and sill to adjacent material is to be included in the window/glass/glazing contract. The caulking of any interior wood or laminate at the windows to be included in the carpentry and general works contract

IV. REVISIONS TO DRAWINGS**A. Mechanical**

1. Modification to Drawing M8.0, Exhaust fan schedule, EF-2, EF-3: Delete note requiring Discharge Shutters. Provide new exterior louver (Pottorff ECD-445, 30" x 30") for each, along with the associated Motor Operated Damper and 120V actuator, to be powered in series with the fan wall switch. See attached cut-sheet for selection information. Also, provide factory-matched 14 Ga. Steel frame wire guard on the motor side of the fan.

END OF ADDENDUM NO. 3

Equipment Schedule

Options

Construction: Mechanically Fastened, 0.081" Dimensions: Nominal
Finish: Baked Enamel Finish Standard Frame: Visible Mullion
 Color-TBD From Chart
Screen: Screen 1- Bird Screen Aluminum
 (1/2" x 0.063") Rear/Interior Mount,
 Mill Finish

Qty	W x H	D	Tag	Actuator						
				Qty	Model	Pos	Loc	Volts	Amps	VA
1	30 x 30									

Project: LINDEN HILL E.S.
Location:
Addendum #:
Submitted By:

Architect:
Engineer:
Contractor:
Date: March 09, 2015

Application

The ECD-445 offers exceptional protection against wind-driven rain under the most severe conditions and is ideally suited for high wind areas or applications that are sensitive to wind-driven rain penetration. The ECD-445 incorporates horizontal blades and is available in a wide array of anodized and painted finishes including custom color matching.

Standard Construction

Material: Mill finish 6063-T5 extruded aluminum.

Frame: 4" deep × 0.081" thick (102 × 2) channel.

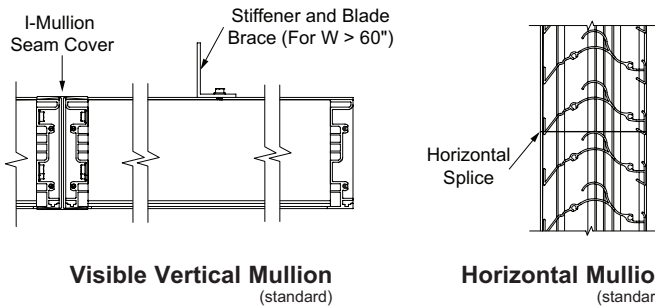
Blades: 45° × 0.063" (1.7) thick horizontal style.

Screen: 1/2" × 0.063" (12.7 × 1.6) expanded and flattened aluminum.

Mullion: Visible.

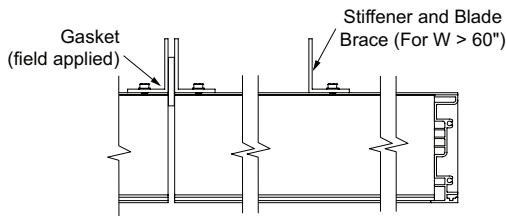
Minimum Size: 6" × 8" (152 × 203)

Maximum Size: Single section: 60" × 120" (1524 × 3048)
120" × 60" (3048 × 1524)
Multiple section: Unlimited



Visible Vertical Mullion
(standard)

Horizontal Mullion
(standard)



Hidden Vertical Mullion
(optional)

Ratings

Free Area: [48" × 48" (1222 × 1222) unit]: 6.9 ft² (0.65 m²)
43.3%

Performance @ Beginning Point of Water Penetration

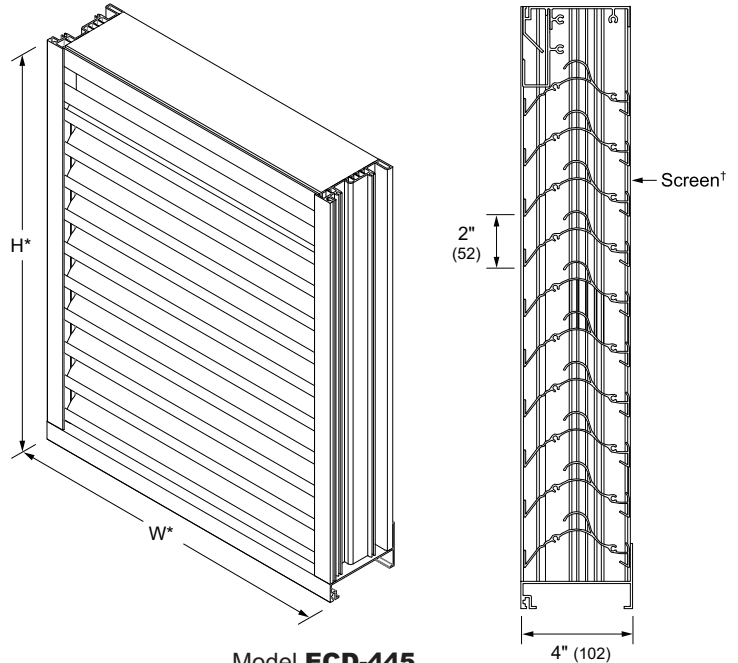
Free Area Velocity: Above 1250 fpm (6.35 m/s)

Air Volume Delivered: Above 8585 cfm (4.06 m³/s)

Pressure Loss: 0.31 in.wg. (78 Pa)

Velocity @ 0.15 in.wg. Pressure Loss: 863 fpm (4.39 m/s)

Design Load: 37 psf



Model ECD-445
(standard)

*Louver dimensions furnished approximately 1/2" (13) undersize.

Vertical Section
†Screen adds approximately 3/16" (5) to louver depth.

ssECD445 (12/12)



Certified Ratings:

Pottorff certifies that the model ECD-445 shown herein is licensed to bear the AMCA seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings seal applies to air performance, water penetration and wind-driven rain ratings.

Information is subject to change without notice or obligation.

NOTE: Dimensions in parentheses () are millimeters.

Free Area (ft²)

Width (Inches)

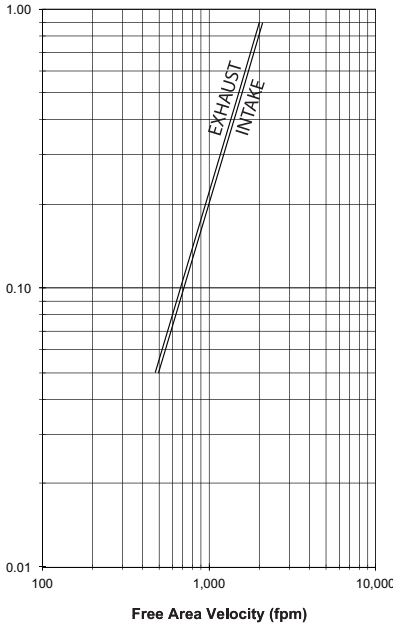
	6	12	18	24	30	36	40	48	54	60	66	72	78	84	90	96	102	108	114	120
8	0.03	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.8
12	0.1	0.2	0.3	0.4	0.5	0.7	0.7	0.9	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.8	1.9	2.1	2.2	2.3
18	0.2	0.5	0.7	1.0	1.3	1.5	1.7	2.1	2.4	2.6	2.9	3.2	3.4	3.7	4.0	4.3	4.5	4.8	5.1	5.4
24	0.3	0.6	1.0	1.4	1.8	2.2	2.5	3.0	3.4	3.8	4.1	4.5	4.9	5.3	5.7	6.1	6.5	6.9	7.3	7.6
30	0.3	0.8	1.3	1.9	2.4	2.9	3.2	3.9	4.4	4.9	5.4	5.9	6.4	6.9	7.4	7.9	8.4	8.9	9.4	9.9
36	0.4	1.0	1.7	2.3	2.9	3.5	3.9	4.8	5.4	6.0	6.6	7.3	7.9	8.5	9.1	9.7	10.4	11.0	11.6	12.2
42	0.5	1.3	2.1	2.9	3.6	4.4	4.9	6.0	6.7	7.5	8.3	9.1	9.8	10.6	11.4	12.2	13.0	13.7	14.5	15.3
48	0.6	1.5	2.4	3.3	4.2	5.1	5.7	6.9	7.7	8.6	9.5	10.4	11.3	12.2	13.1	14.0	14.9	15.8	16.7	17.6
54	0.7	1.7	2.7	3.7	4.7	5.7	6.4	7.7	8.8	9.8	10.8	11.8	12.8	13.8	14.8	15.8	16.8	17.9	18.9	19.9
60	0.8	1.9	3.1	4.3	5.4	6.6	7.4	8.9	10.1	11.3	12.4	13.6	14.8	15.9	17.1	18.3	19.4	20.6	21.8	22.9
66	0.9	2.1	3.4	4.7	6.0	7.3	8.1	9.8	11.1	12.4	13.7	15.0	16.2	17.5	18.8	20.1	21.4	22.7	23.9	25.2
72	0.9	2.3	3.7	5.1	6.5	7.9	8.9	10.7	12.1	13.5	14.9	16.3	17.7	19.1	20.5	21.9	23.3	24.7	26.1	27.5
78	1.0	2.5	4.0	5.6	7.1	8.6	9.6	11.6	13.1	14.7	16.2	17.7	19.2	20.7	22.2	23.8	25.3	26.8	28.3	29.8
84	1.1	2.8	4.5	6.1	7.8	9.5	10.6	12.8	14.5	16.2	17.8	19.5	21.2	22.8	24.5	26.2	27.9	29.5	31.2	32.9
90	1.2	3.0	4.8	6.6	8.3	10.1	11.3	13.7	15.5	17.3	19.1	20.9	22.7	24.4	26.2	28.0	29.8	31.6	33.4	35.2
96	1.3	3.2	5.1	7.0	8.9	10.8	12.1	14.6	16.5	18.4	20.3	22.2	24.1	26.0	27.9	29.8	31.7	33.7	35.6	37.5
102	1.3	3.4	5.4	7.4	9.4	11.5	12.8	15.5	17.5	19.5	21.6	23.6	25.6	27.6	29.6	31.7	33.7	35.7	37.7	39.8
108	1.5	3.6	5.8	8.0	10.2	12.3	13.8	16.7	18.9	21.0	23.2	25.4	27.6	29.8	31.9	34.1	36.3	38.5	40.6	42.8
114	1.5	3.8	6.1	8.4	10.7	13.0	14.5	17.6	19.9	22.2	24.5	26.8	29.1	31.3	33.6	35.9	38.2	40.5	42.8	45.1
120	1.6	4.0	6.4	8.8	11.2	13.7	15.3	18.5	20.9	23.3	25.7	28.1	30.5	32.9	35.4	37.8	40.2	42.6	45.0	47.4



Certified Ratings:
Pottorff certifies that the model ECD-445 shown herein is licensed to bear the AMCA seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings seal applies to air performance, water penetration and wind-driven rain ratings.

Pressure Loss

(Data corrected to standard air density)

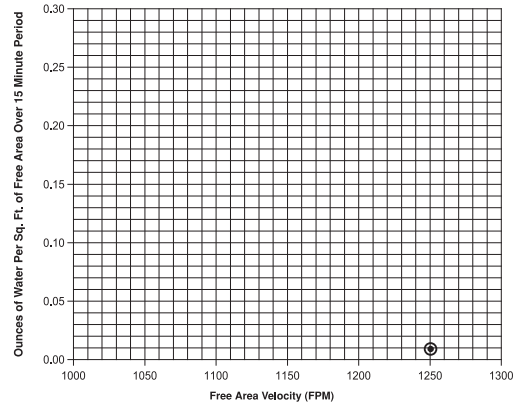


Pressure loss tested in accordance with Figure 5.5 of AMCA Standard 500-L.

Water Penetration

AMCA defines the beginning point of water penetration as the free area velocity at the intersection of a simple linear regression of test data and the line of 0.01 ounces of water per square foot of free area and is measured through a 48" x 48" louver during a 15 minute period. The AMCA water penetration test provides a method for comparing louver models and designs as to their efficiency in resisting the penetration of rainfall under specific lab conditions. Pottorff recommends that intake louvers are selected with a reasonable margin of safety below the beginning point of water penetration in order to avoid unwanted penetration during severe storm conditions.

Beginning Point of Water Penetration = Above 1250 fpm



Wind Driven Rain Performance — AMCA 500-L Wind Driven Rain Test

Test louver Core Area,

Wind Velocity 29 mph	Rainfall 3 in/hr	Airflow 5587 cfm	Core Velocity 423 fpm	Effectiveness Ratio 99%	Wind Class: A	Discharge Class: 3
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Wind Driven Rain Class	Effectiveness
A	1.000 to 0.99
B	0.989 to 0.95
C	0.949 to 0.80
D	0.799 to 0.00

NOTES

1. Core Area is the open area of the louver face (face area less louver frame). 2. Wind Driven Rain Penetration Classes. 3. Discharge Loss Coefficient is calculated by dividing the louvers' actual airflow rate by the theoretical airflow rate for an unobstructed opening. The higher the coefficient the lower the resistance to air flow.

Information is correct at time of printing. However, we reserve the right to make changes without notice.

NOTE: Dimensions in parentheses () are millimeters.

Equipment Schedule

Sleeve

Type: Side Plate
Length: 12"
Gauge: 16
Setback: 6"

Options

Accessories: Low leakage seal, Synthetic
bushing
Actuator Orientation: Perpendicular
Dimensions: Nominal
Material: Galvanized

Qty	W x H	D	Tag	Actuator						
				Qty	Model	Pos	Loc	Volts	Amps	VA
1	30 x 30			1	FSLF120-S	PO	EXT	120V	0.15	18.0

Project: LINDEN HILL E.S.
Location:
Addendum #:
Submitted By:

Architect:
Engineer:
Contractor:
Date: March 09, 2015

Application

CD-41 and CD-42 control dampers employ triple-V blades and a rugged hat channel frame for automatic air control and manual balancing in medium pressure and velocity applications.

Standard Construction

Frame: 5" x 1" (127 x 25) galvanized steel hat channel with interlocking corner gusset. Equivalent to 13 gauge (2.4) channel frame. Low profile head and sill are used on sizes less than 13" (330) high.

Blades: 6" x 16 gauge (152 x 1.5) galvanized steel — triple-V. Parallel (model CD-41) or opposed (model CD-42) action.

Axles: 1/2" (13) diameter plated steel hex.

Linkage: Concealed in frame.

Bearings: Synthetic

Control Shaft: 1/2" x 6" (13 x 152) round drive axle with outboard shaft support bracket and bearing supplied on all single section dampers for field installation. Factory installed jackshaft supplied with all multiple section dampers: 1/2" (13) dia. for W>48" (1219) or H>72" (1829), 3/4" (19) dia. for W >96" (2438).

Minimum Size: Model CD-41 (one blade): 6" x 5" (152 x 127)
Model CD-41 and CD-42 (two blades): 6" x 10" (152 x 254)

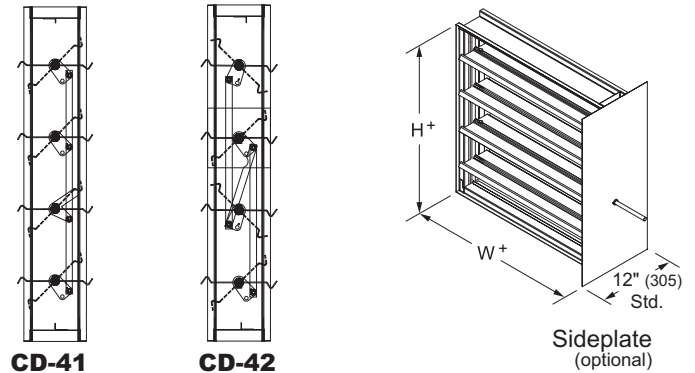
Maximum Size: Single section: 48" x 72" (1219 x 1829)
Multiple sections: Unlimited

Ratings

Damper Width	Maximum System Pressure	Maximum System Velocity
12" (305)	5.0 in. wg (1.2 kPa)	3000 fpm (15.2 m/s)
24" (610)	4.0 in. wg (1.0 kPa)	3000 fpm (15.2 m/s)
36" (914)	3.0 in. wg (0.8 kPa)	2500 fpm (12.7 m/s)
48" (1219)	2.5 in. wg (0.6 kPa)	2000 fpm (10.2 m/s)

Leakage (with seals): 8.0 cfm/ft² @ 4 in. wg (0.04m³/s/ m² @ 1.00 kPa)
4.0 cfm/ft² @ 1 in. wg (0.02m³/s/ m² @ 0.25 kPa)

Temperature: -25°F to 180°F (-32°C to +83°C)



ssCD41, CD42splat (08/14)



Air Performance

Pottorff certifies that the model CD-41 and CD-42 shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance ratings only.

FSLF120 (-S) US, FSLF24 (-S) US



Fire and smoke actuator, 30 in-lb, [3.5 Nm], spring return, 350°F [177°C] for half hour, 15 sec. operation.



Technical Data	FSLF120(-S) US	FSLF24(-S) US
Nominal voltage	120 VAC 50/60 Hz	24 VAC 50/60 Hz
Nominal voltage range	108 - 132 VAC	21.6 - 26.4 VAC
Power consumption	Running: 24 VAC: 50/60 Hz: 5.0 VA 120 VAC, 60 Hz: 18 VA (120 VAC, 50 Hz: 20 VA) Holding: 24 VAC, 50/60 Hz: 3.5 VA 120 VAC, 60 Hz: 6.5 VA (120 VAC, 50 Hz: 12 VA)	
Transformer sizing	Safety note: Connect via safety isolating transformer, Class 2 supply.	
Electrical connection	2 ft, 18 ga, 3 color coded leads (120 V) 2 ft, 18 ga, 2 color coded leads (24 V) 2 ft, 18 ga, appliance cable (Aux switches)	
Overload protection	Electronic throughout 0 to 95° rotation Auto-restart after temporary overload	
Electrical protection motor	FSLF120 US grounded enclosure	
Electrical protection	Double insulated <input type="checkbox"/>	
Auxiliary switches		
Angle of rotation	95°	
Torque	30 in-lb [3.5 Nm] minimum from 32°F to 350°F [0°C to 177°C]	
Direction of rotation	Spring return can be selected by CCW/CW mounting	
Position indication	Visual indicator, 0° to 95°	
Running time	Motor: < 15 sec at rated voltage and torque, 32°F to +122°F [0°C to +50°C] Spring: < 15 sec	
Auxiliary switches	2 x SPST 0.5 A inductive @ 120/250 V, 1 mA @ 5 VDC, 3 A resistive @ 120/250 V, UL listed, 10° and 85°	
FSLF120-S US/24-S US		
Humidity	5 to 95% RH noncondensing	
Ambient temperature		
- Normal operation	32°F to +122°F [0°C to +50°C]	
- Safety operation	3 On/Off cycles after 30 minutes at ambient temperature of 350°F [177°C]	
Storage temperature	-40°F to +176°F [-40°C to +80°C]	
Housing	NEMA type 1, zinc coated steel	
Type of action	Type 1.B	
Software class	A	
Gears	Permanently lubricated	
Agency listings	cULus listed acc. to UL 60730-1	
Servicing	Maintenance free	
Quality standard	ISO 9001	
Weight	3.7 lbs [1.7 kg]	

Application:

The type FSLF spring-return actuator is intended for the operation of smoke and combination fire and smoke dampers in ventilation and air-conditioning systems. The actuator will meet requirements of UL555 and UL555S when tested as an assembly with the damper and will meet requirements of UBC for 15 second opening and closing.

Square footage of damper operated will depend on make and model and the temperature required.

Operation

Mounting of the actuator to the damper axle shaft or jackshaft is via a cold-weld clamp. Teeth in the clamp and V-bolt dig into the metal of both solid and hollow shafts maintaining a perfect connection. The specially designed clamp will not crush hollow shafts. The bottom end of the actuator is held by an anti-rotation strap or by a stud provided by the damper manufacturer.

The actuator is mounted in its fail safe position with the damper blade(s) closed. Upon applying power, the actuator drives the damper to the open position. The internal spring is tensioned at the same time. If the power supply is interrupted, the spring moves the damper back to its fail-safe position.

Replacement applications

When actuators fail on existing dampers, the local authority having jurisdiction sets the code requirements for replacement actuators. The local inspector or fire marshal should be consulted. In some jurisdictions, a product meeting current codes may be required.

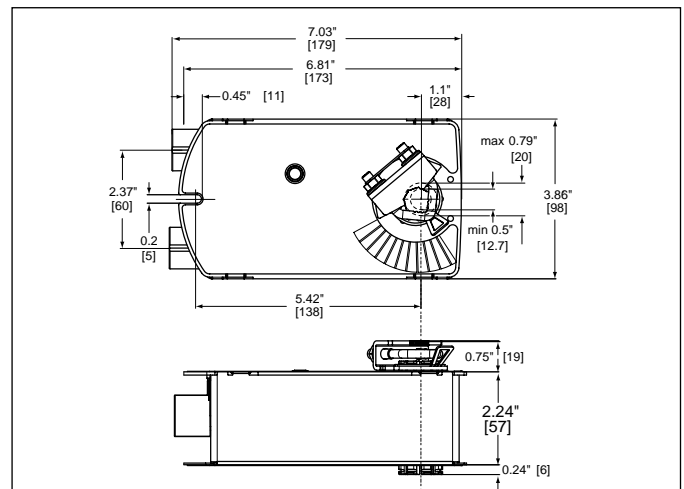
The FSLF will meet or exceed requirements.

Caution must be used when replacing failed motors with new Belimo actuators. Many old motors did not have internal springs and depended on external springs on the side of the damper or wrapped around the damper shaft to close the damper.

In some cases, the damper must be replaced because the damper would have to undergo major modifications to replace an actuator.

Most codes require that "equal or better" actuators be used to replace defectives.

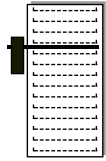
Dimensions [All numbers in brackets are in millimeters.]



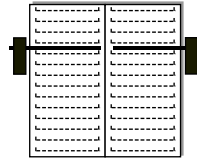
Fire and smoke actuator, 30 in-lb, [3.5 Nm], spring return, 350°F [177°C] for half hour, 15 sec. operation.

Multi-section damper assemblies – typical applications

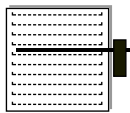
The typical fire and smoke damper requires from 5-15 in-lb of torque per square foot at 250°F - 350°F under dynamic load (2400 fpm velocity). The FSLF is a single section damper actuator. For the multi section dampers, use the FSNF series.



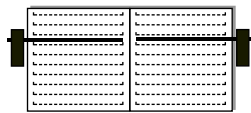
Single section for one FSLF actuator



Two section for two FSLF actuators



Maximum area one actuator



Maximum area for two actuators

This is a direct coupled actuator. If linkages are needed use the FSNF series. Square shaft adaptors are available: 22153-00002, 22153-00003, 22513-00004 for the 8mm, 10mm, and 12mm, form fit respectively.

Safety note:

The actuator contains no components which the user can replace or repair.

FSLF120 or FSLF24(-S) Typical specification

All smoke and combination fire and smoke dampers shall be provided with Belimo FSLF US or FSNF US actuators. No substitutions allowed.

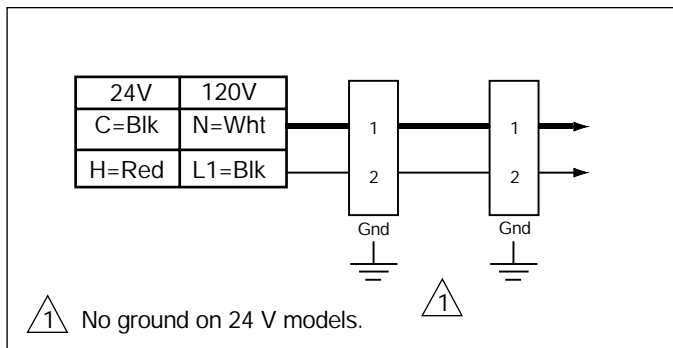
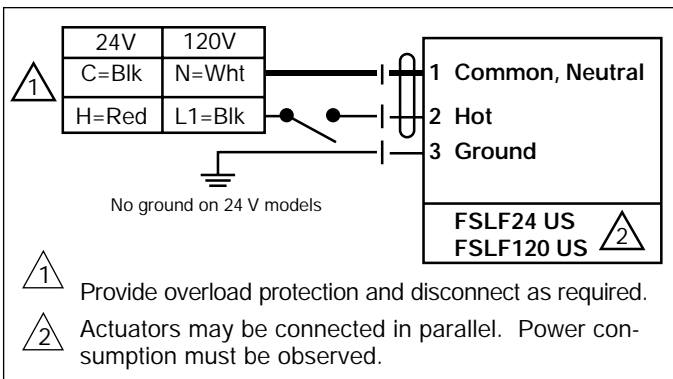
Damper and actuator shall have UL555S Listing for 250°F (350°F) and shall drive open in 15 seconds and spring closed in 15 seconds as required by UBC.

Where auxiliary switches are required for signaling, starting fans, or position indication, -S model actuators, damper blade, or proximity switches shall be provided.

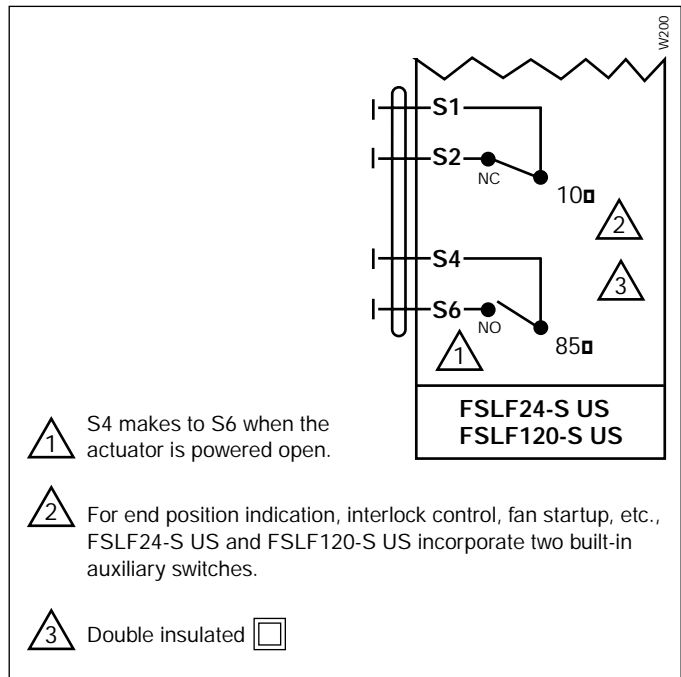
Safety note:

Screw a conduit fitting into the actuator's metal bushing. Jacket the actuators input and output wiring with suitable flexible conduit. Properly terminate the conduit in a suitable junction box.

Wiring

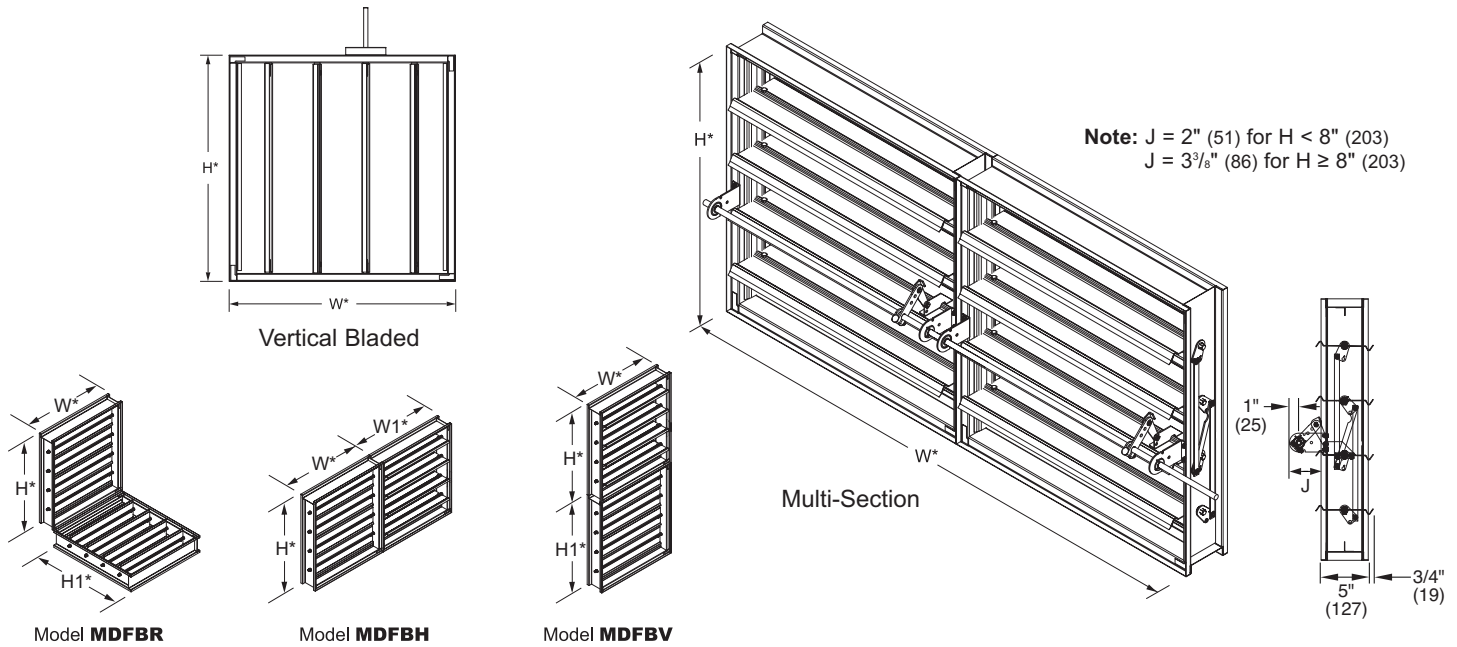


Parallel actuator wiring



Auxiliary switch wiring for FSLF24-S US, FSLF120-S US

Typical Damper Dimensional Details



Dampers are designed to be self-supporting in the maximum single section size. When dampers are installed in multiple section assemblies, bracing may be required to support the weight of the dampers and to ensure structural integrity against system pressures. It is recommended that multiple sections be appropriately braced. In horizontal installations, it is recommended that suitable supports be installed every 8 feet of damper width. Dampers installed in vertical multiple assemblies and/or higher system pressures, may require additional bracing.

*Damper dimensions furnished approximately 1/4" (6) undersize.

Airflow Performance Data

Pressure Loss vs. Velocity

Figure 5.3 — Ducted Inlet and Outlet

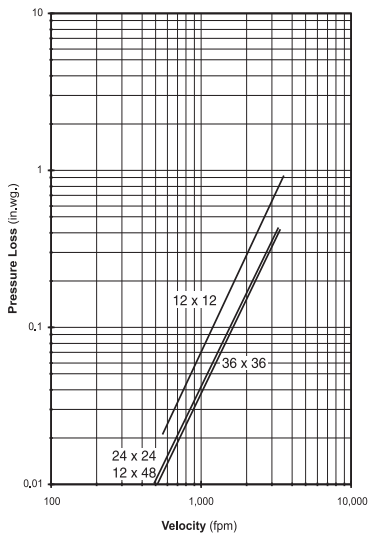


Figure 5.2 — Ducted Inlet

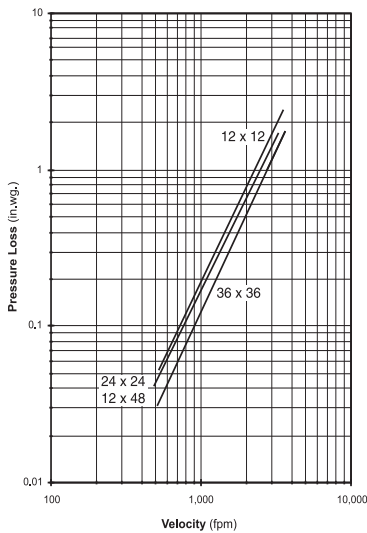
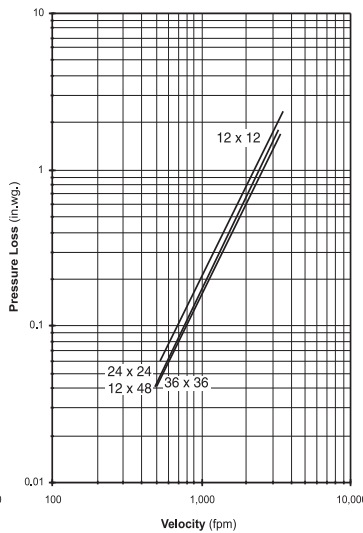


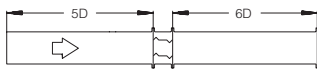
Figure 5.5 Plenum Mount



Air Performance

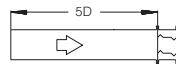
Pottorff certifies that the model CD-41 and CD-42 shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance ratings only.

Pressure drop testing was performed in accordance with AMCA Standard 500-D using the three configurations shown. All data has been corrected to represent air density of 0.075 lb/ft. Actual pressure drop in any ducted HVAC system is a combination of many elements. This information, along with analysis of other system influences, should be used to estimate actual pressure losses for a damper installed in a given HVAC system.



Ducted Inlet and Outlet

AMCA Figure 5.3 illustrates a fully ducted damper. This configuration represents the lowest pressure drop of the three test configurations because entrance and exit losses are minimized by straight duct runs upstream and downstream of the damper.



Ducted Inlet

AMCA Figure 5.2 illustrates a ducted damper exhausting air into an open area. This configuration has a lower pressure drop than Figure 5.5 because entrance losses are minimized by a straight duct run upstream of the damper.



Plenum Mount

AMCA Figure 5.5 illustrates a plenum mounted damper. This configuration has the highest pressure drop because of extremely high entrance and exit losses due to the sudden changes of area in the system.

CONTRACT NO. 01 CARPENTRY AND GENERAL WORKS
BID FORM

For Bids Due: _____ To: Red Clay Consolidated School District

Name of Bidder: _____

Bidder Address: _____

Contact Name: _____ E-Mail Address: _____

Delaware Business License No.: _____ Taxpayer ID No.: _____

(Other License Nos.): _____
(A copy of Bidder's Delaware Business License must be attached to this form.)

Phone No.: () _____ - _____ Fax No.: () _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (\$ _____)

ALTERNATES

Alternate prices conform to applicable project specification section. Refer to specifications for a complete description of the following Alternates. An "ADD" or "DEDUCT" amount is indicated by the crossed out part that does not apply.

Alternate No. 1: Provide/Install Framing, drywall, ceilings painting as per written description in Addendum No. 01

Add/Deduct _____ (\$ _____)

Alternate No. 2: Secure Vestibule

Add/Deduct _____ (\$ _____)

Alternate No. 3: Sheathing with acrylic finish and aluminum fascia replacement.

Add/Deduct _____ (\$ _____)

UNIT PRICES

Unit prices conform to applicable project specification section. Refer to the specifications for a complete description of the following Unit Prices:

1. NONE

NOTE: The difference in price between Add and Deduct in the above Unit Prices should not exceed fifteen percent (15%).

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am / We are an Individual / a Partnership / a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 6962 (d)(10)b Delaware Code, the following sub-contractor listing must accompany the bid submittal. The name and address of the sub-contractor must be listed for each category where the bidder intends to use a sub-contractor to perform that category of work. In order to provide full disclosure and acceptance of the bid by the Owner, **it is required that bidders list themselves as being the sub-contractor for all categories where he/she is qualified and intends to perform such work.**

Subcontractor

<u>Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>	<u>Subcontractors tax payer ID # or Delaware Business license #</u>
1. Door/Frame Supplier	_____	_____	_____
2. Mechanical	_____	_____	_____
3. Electrical	_____	_____	_____

NON-COLLUSION STATEMENT

This is to certify that the undersigned bidder has neither directly nor indirectly, entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free competitive bidding in connection with this proposal submitted this date _____

All the terms and conditions of *Contract No:* _____ have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE
(TYPED): _____

AUTHORIZED REPRESENTATIVE
(SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.

BID BOND

TO ACCOMPANY PROPOSAL
(Not necessary if security is used)

KNOW ALL MEN BY THESE PRESENTS That: _____ of
_____ in the County of _____ and State of _____ as
Principal, and _____ of _____ in the County of _____
_____ and State of _____ as Surety, legally authorized to do business in the State of Delaware
("State"), are held and firmly unto the Red Clay Consolidated School District in the sum of _____
_____ Dollars (S _____), or percent not to exceed _____
_____ Dollars (S _____) of amount of bid on Contract No. _____ to be paid
to the Red Clay Consolidated School District for the use and benefit of the Red Clay Consolidated School District for
which payment well and truly to be made, we do bind ourselves, our and each of our heirs, executors, administrators, and
successors, jointly and severally for and in the whole firmly by these presents.

NOW THE CONDITION OF THIS OBLIGATION IS SUCH That if the above bounden Principal who has submitted to the
Red Clay Consolidated School District a certain proposal to enter into this contract for the furnishing of certain material
and/or services within the State, shall be awarded this Contract, and if said Principal shall well and truly enter into and
execute this Contract as may be required by the terms of this Contract and approved by the _____
this Contract to be entered into within twenty days after the date of official notice of the award thereof in accordance with
the terms of said proposal, then this obligation shall be void or else to be and remain in full force and virtue.

Sealed with _____ seal and dated this ___ day of _____ in the year of our Lord two thousand
and _____ (20__).

SEALED, AND DELIVERED IN THE PRESENCE OF

Name of Bidder (Organization)

Corporate
Seal
Attest _____

By: _____
Authorized Signature

Title

Name of Surety

Witness _____

Title

CONSENT OF SURETY

DATE _____

To:

Gentlemen:

We, the _____

(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

(Contractor)

(Address)

is awarded the Contract No. _____

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

(Surety Company)

By _____
(Attorney-in-Fact)

CONTRACT NO. 02 WINDOWS

BID FORM

For Bids Due: _____ To: Red Clay Consolidated School District

Name of Bidder: _____

Bidder Address: _____

Contact Name: _____ E-Mail Address: _____

Delaware Business License No.: _____ Taxpayer ID No.: _____

(Other License Nos.): _____

(A copy of Bidder's Delaware Business License must be attached to this form.)

Phone No.: () _____ - _____ Fax No.: () _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (\$ _____)

ALTERNATES

Alternate prices conform to applicable project specification section. Refer to specifications for a complete description of the following Alternates. An "ADD" or "DEDUCT" amount is indicated by the crossed out part that does not apply.

Alternate No. 1: Provide/Install Framing, drywall, ceilings painting as per written description in Addendum No. 01

Add/Deduct _____ (\$ _____)

Alternate No. 2: Secure Vestibule

Add/Deduct _____ (\$ _____)

Alternate No. 3: Sheathing with acrylic finish and aluminum fascia replacement.

Add/Deduct _____ (\$ _____)

UNIT PRICES

Unit prices conform to applicable project specification section. Refer to the specifications for a complete description of the following Unit Prices:

1. N/A

NOTE: The difference in price between Add and Deduct in the above Unit Prices should not exceed fifteen percent (15%).

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am / We are an Individual / a Partnership / a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

Business Address: _____

Witness: _____ By: _____
(SEAL) (Authorized Signature)

(Title)
Date: _____

ATTACHMENTS

- Sub-Contractor List
- Non-Collusion Statement
- Bid Bond
- Consent of Surety
- Delaware Business License
- (Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 6962 (d)(10)b Delaware Code, the following sub-contractor listing must accompany the bid submittal. The name and address of the sub-contractor must be listed for each category where the bidder intends to use a sub-contractor to perform that category of work. In order to provide full disclosure and acceptance of the bid by the Owner, **it is required that bidders list themselves as being the sub-contractor for all categories where he/she is qualified and intends to perform such work.**

Subcontractor

<u>Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>	<u>Subcontractors tax payer ID # or Delaware Business license #</u>
1. Alum Windows (Supply)	_____	_____	_____
2. Alum Windows (Install)	_____	_____	_____

NON-COLLUSION STATEMENT

This is to certify that the undersigned bidder has neither directly nor indirectly, entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free competitive bidding in connection with this proposal submitted this date _____

All the terms and conditions of *Contract No:* _____ have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE
(TYPED): _____

AUTHORIZED REPRESENTATIVE
(SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.

BID BOND

TO ACCOMPANY PROPOSAL
(Not necessary if security is used)

KNOW ALL MEN BY THESE PRESENTS That: _____ of
_____ in the County of _____ and State of _____ as
Principal, and _____ of _____ in the County of _____
_____ and State of _____ as Surety, legally authorized to do business in the State of Delaware
("State"), are held and firmly unto the Red Clay Consolidated School District in the sum of _____
_____ Dollars (S _____), or percent not to exceed _____
_____ Dollars (S _____) of amount of bid on Contract No. _____ to be paid
to the Red Clay Consolidated School District for the use and benefit of the Red Clay Consolidated School District for
which payment well and truly to be made, we do bind ourselves, our and each of our heirs, executors, administrators, and
successors, jointly and severally for and in the whole firmly by these presents.

NOW THE CONDITION OF THIS OBLIGATION IS SUCH That if the above bounden Principal who has submitted to the
Red Clay Consolidated School District a certain proposal to enter into this contract for the furnishing of certain material
and/or services within the State, shall be awarded this Contract, and if said Principal shall well and truly enter into and
execute this Contract as may be required by the terms of this Contract and approved by the _____
this Contract to be entered into within twenty days after the date of official notice of the award thereof in accordance with
the terms of said proposal, then this obligation shall be void or else to be and remain in full force and virtue.

Sealed with _____ seal and dated this ___ day of _____ in the year of our Lord two thousand
and _____ (20__).

SEALED, AND DELIVERED IN THE PRESENCE OF

Name of Bidder (Organization)

Corporate
Seal
Attest _____

By: _____
Authorized Signature

Title

Name of Surety

Witness _____

Title

CONSENT OF SURETY

DATE _____

To:

Gentlemen:

We, the _____

(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

(Contractor)

(Address)

is awarded the Contract No. _____

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

(Surety Company)

By _____
(Attorney-in-Fact)

END OF SECTION

SECTION 101100 - SUMMARY OF WORK

1. RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Sections, apply to work of this Section.

2. CONTRACTS

- A. The work will be performed under separate prime contracts managed by the Construction Manager.

3. ALTERATIONS & COORDINATION

- A. Contractor shall be responsible to coordinate their work with the work of others, including, but not limited to, the preparation of general coordination drawings, diagrams and schedules, and control of site utilization, from the beginning of activity, through project close-out and warranty periods.

4. KNOWLEDGE OF CONTRACT REQUIREMENTS

- A. The Contractor and his Subcontractors, Sub-subcontractors and material men shall consult in detail the Contract Documents for instructions and requirements pertaining to the Work, and at his and their cost, shall provide all labor, materials, equipment and services necessary to furnish, install and complete the work in strict conformance with all provisions thereof.
- B. The Contractor will be held to have examined the site of the Work prior to submitting his proposal and informed himself, his Subcontractors, Sub-subcontractors and material men of all existing conditions affecting the execution of the Work.
- C. The Contractor will be held to have examined the Contract Documents and modifications thereto, as they may affect subdivisions of the Work and informed himself, his Subcontractors, Sub-subcontractors and material men of all conditions thereof affecting the execution of the Work.
- D. The Scope of Work for the Contract is not necessarily limited to the description of each section of the Specifications and the illustrations shown on the Drawings. Include all minor items not expressly indicated in the Contract Documents, or as might be found necessary as a result of field conditions, in order to complete the Work as it is intended, without any gaps between the various subdivisions of work.
- E. The Contractor will be held to be thoroughly familiar with all conditions affecting labor

in the area of the Project including, but not limited to, Unions, incentive pay, procurements, living, parking and commuting conditions and to have informed his Subcontractors and Sub-subcontractors thereof.

5. CONTRACT DOCUMENTS INFORMATION

- A. The Contract Documents are prepared in accordance with available information as to existing conditions and locations. If, during construction, conditions are revealed at variance with the Contract Documents, notify the Construction Manager immediately, but no more than three (3) days from the day the variance is first known. Failure to give timely notice shall operate to waive any claim Contractor might otherwise have for an adjustment to Contract Time or Sum as a consequence of such variance.
- B. The Specifications determine the kinds and methods of installation of the various materials, the Drawings establish the quantities, dimensions and details of materials, the schedules on the Drawings give the location, type and extent of the materials.
- C. Dimensions given on the Drawings govern scale measurements and large scale drawings govern small scale drawings, except as to anything omitted unless such omission is expressly noted on the large scale drawings.
- D. The techniques or methods of specifying to record requirements varies throughout text, and may include "prescriptive", "open generic/descriptive", "compliance with standards", "performance", "proprietary", or a combination of these. The methods used for specifying one unit of work has no bearing on requirements for another unit of work.
- E. Whenever a material, article or piece of equipment is referred to in the singular number in the Contract Documents, it shall be the same as referring to it in the plural. As many such materials, articles or pieces of equipment shall be provided as are required to complete the Work.
- F. Whenever a material, article or piece of equipment is specified by reference to a governmental, trade association of similar standard, it shall comply with the requirements of the latest publication thereof and amendments thereto in effect on the bid date.
- G. In addition to the requirements of the Contract Documents, Contractor's work shall also comply with applicable standards of the construction industry and those industry standards are made a part of Contract Documents by reference, as if copied directly into Contract Documents, or as if published copies were bound herein.
- H. Where compliance with two (2) or more industry standards, contract requirements, or sets of requirements is specified, and overlapping of those different standards or

requirements establishes different or conflicting minimums or levels of quality, then the most stringent requirements, which are generally recognized to be also the most costly, is intended and will be enforced, unless specifically detailed language written into the Contract Documents clearly indicates that a less stringent requirement is to be fulfilled. Refer apparently equal but different requirements, and uncertainties as to which level of quality is more stringent, to Architect for decision before proceeding.

- I. Reference standards referenced directly in Contract Documents or by governing regulations have precedence over non-reference standards which are recognized in industry for applicability of work.
- J. Contractor's bid is based on the complete set of Contract Documents including documents not specifically issued as part of the bid pack but referenced in same.

6. SCOPE OF WORK/GENERAL INFORMATION

- A. A Scope of Work for each contract to be awarded on the project follows in this section. When a Contract has been awarded to a Contractor, the successful Contractor will be listed after the title of the Contract. When no Contract has yet been awarded, no Contractor's name will be listed. Previous Scopes of Work include addendum changes.
- B. Contractor is responsible for performing the work listed in the Summary of Work for his contract. Contractor is also responsible for knowing the work that has been assigned to preceding contracts. No additional compensation or extension of time will be allowed a Contractor due to his ignorance of the work assigned to his Contract or to other contracts which may affect his work. The Contractor is responsible, however, for all items which are covered in the Specifications and Drawings relating to their Contract if not specifically mentioned in the Summary of Work.
- C. The Construction Manager will provide on site a source for temporary electric, temporary water and portable sanitation facilities only. It is each Contractor's responsibility to make the necessary connections, including all material for temporary electric and water. Please note that utility charges for office trailers will be the responsibility of the individual Contractors.
- D. A dumpster will be provided on site for free use by Contractors to dispose of non-hazardous, common, work-related refuse. Clean-up is the responsibility of each Contractor. Clean up shall be performed on a daily basis. Contractors not complying will be advised in writing and back charged for all costs associated with the clean up of their work.
- E. Contractors are reminded that there are limited storage areas available on site. Off site storage will be the responsibility of each individual Contractor.

- F. Office trailer permits off site will be the responsibility of each individual Contractor. On site Contractor's field offices, one (1) per Contractor, if required, will be located as directed by the Construction Manager.
- G. Contractor will be prepared to discuss and submit a detailed project schedule seven (7) days after receipt of Notice to Proceed and to begin its submittal process. The Project Schedule is an integral part of this contract. Certain construction sequences and priorities must take place in order to meet the target dates. Concentrated work periods will occur and each Contractor is responsible to staff the project as required by the current Construction Schedule or as directed by the Construction Manager. Contractor will cooperate with the Construction Manager in planning and meeting the required sequences of work and Project Schedule as periodically updated by the Construction Manager.
- H. All bids must include insurance limits in accordance with Article 11 of the Section 007300 SUPPLEMENTARY CONDITIONS.
- I. Hoisting, scaffolding and material handling is the responsibility of each Contractor, unless otherwise noted.
- J. Contractor will be responsible for layout of its own work. The Construction Manager will provide benchmark and layout of the building line.
- K. Contractor will be responsible to keep clean public roadways soiled by construction traffic on a daily basis. If cleaning is not done, the Construction Manager may perform the cleaning on an overtime basis and backcharge the Contractor responsible.
- L. Contractor Scopes of Work and Schedule are interrelated. Familiarity with each is required.
- M. The Construction Manager will provide testing services for soil, concrete and steel. Other testing as required by the Contract Documents will be in accordance with the technical specifications and/or the individual scope of work. Refer to Specification Section 004500 - QUALITY CONTROL.
- N. Safety is the responsibility of each individual Contractor. The project will be governed under the guidelines of OSHA.
- O. Inter-Contractor shop drawing distribution will be performed by the Construction Manager. Contractor is individually responsible for either coordinating his work with these distributed drawings or notifying the Construction Manager, in writing, of any discrepancies.

- P. Coordination with other trades will be required. The Contractor will be required to attend periodic coordination meetings with other trades where requirements, conflicts and coordination issues will be discussed and resolved. Attendance when requested will be mandatory. If inter-Contractor coordination is not satisfactorily performed, the conflicting Contractors shall mutually share the cost to relocate and/or reinstall their work.
- Q. Contractor shall submit a schedule of values to the Construction Manager prior to the submission of their first invoice for approval on AIA G702/CMA, Application for Payment and G703, Continuation Sheet.
- R. Contractor is expected to review and coordinate its Work with the complete set of Contract Documents, including all items noted as by his trade whether or not shown on that particular set of drawings. Documents are available at the site for review.
- S. Contractor is responsible for obtaining all necessary permits required for his work, including street permits. Unless otherwise noted, building permit shall be secured by the Construction Manager. Any subcontractor who will be restricting access to street, right of way or adjacent property must notify the Construction Manager 48 hours in advance.
- T. Contractor's License: Submit a copy of all business licenses required by local and state agencies.
- U. Contractor shall absorb, without additional compensation, any and all costs of working beyond normal hours to maintain job progress in accordance with the current construction schedule.
- V. No asbestos or PCB's in or on any material or equipment will be accepted or allowed on this project. All hazardous materials will be treated in accordance with all State and Federal regulations.
- W. Daily clean up of the work is the responsibility of each individual Contractor which includes broom cleaning of their debris as required. Contractor will be individually back charged by the Construction Manager for clean up not satisfactorily performed by the Contractor.
- X. In the event asbestos is uncovered, the Contractor shall notify the Construction Manager of the areas requiring removal of asbestos. The Construction Manager shall then coordinate the removal with the Owner.

- AA. The Safety Cable System shall not be altered or removed without a written request

submitted to the Project Manager with a copy to the Field Manager. It shall be the responsibility of each and every Contractor that is removing or altering the Safety Cable System to maintain the fall protection safety provided by the safety cable and not leave the area unprotected. Each and every Contractor shall be responsible to re-install the Safety Cable System immediately after work is completed. Each and every Contractor shall be responsible to re-install the Safety Cable System in accordance to OSHA standards.

- AB. Normal work hours for this project are from 7:00 a.m. to 3:30 p.m. Any work to be performed outside of these hours must receive prior approval from the Construction Manager. Requests to work beyond normal work hours shall be submitted at least 48 hours prior.
- AC. Contractor is responsible for having a competent project superintendent/foreman on-site during all work performed under its contract.
- AD. In the event the Contractor has non-English speaking employees or subcontractors on the project, they shall have a superintendent or foreman on site, at all times, who speaks English and can communicate with Contractor's employees. Should the Contractor fail to meet this requirement, at any time, Construction Manager may direct all Work to stop until the proper supervision is on site. The Contractor will be responsible for maintaining the project work schedule and make up at its own expense, any delay to the Schedule resulting from the work stoppage.
- AE. Punch List Procedures: Contractor shall be given a copy of the punch list with his appropriate work identified. Contractor shall have nine (9) calendar work days to complete its punch list work. On the 10th day or as determined by the Construction Manager, the Construction Manager shall employ other contractors, as required, to complete any incomplete punch list work and retain from the appropriate Contractors retainage all costs incurred.
- AF. Contractor shall provide the necessary safety barricades and railings required to complete their work and comply with all OSHA, local code and contract specifications.
- AG. Liquidated Damages: - There will be no Liquidated Damages on this project
- AH. **Work is scheduled to commence at the end of to the 2014-2015 school year (approximately 6/10/15) and work completed prior to school commencing in the fall of 2015 (approximately 8/15/15). It is expected that contractors will include any costs associated with manpower and/or obtaining materials in a timely manner such that work can be completed within the allotted time during normal working hours. Any work being completed outside of normal working hours due to issues caused by the contractor will be at the expense of the contractor.**

CONTRACT NO. A 01- CARPENTRY AND GENERAL WORKS (Demolition, Masonry, Carpentry,
Window Treatments, Casework/Millwork, Doors/Frames Hardware, Drywall, Ceilings,
Painting, Flooring, Mechanical, Electrical, Final Cleaning)

A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

- Technical Specification Sections:

Division 00	Bidding and Contract Requirements
Division 01	General Requirements
Division 02	Existing Conditions
Division 04	Masonry
Division 06	Wood, Plastic, and Composites
Division 07	Thermal and Moisture Protection
Section 08 11 13	Hollow Metal Doors and Frames
Section 08 16 13	Fiberglass Doors
Section 08 71 00	Door Hardware
Section 08 80 00	Glazing
Division 09	Finishes
Division 12	Furnishings
Division 23	Mechanical
Division 26	Electrical

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

CARPENTRY/GENERAL TRADES

1. Provide labor and materials to perform the work related to all carpentry and general work.
2. All rough carpentry related to the exterior skin of the building including wood nailers and blocking and exterior sheathing. Provide blocking for new windows and storefronts. Blocking for windows and storefronts will be provided during each associated phase of work.
3. ~~This contractor to include an allowance of \$8,000 to provide temporary weather protection at windows between demolition and installation of new windows.~~ **This contractor to provide temporary enclosure for all windows and aluminum storefront doors (S2A, C6A, C6B). Temporary protection to consist of 2" x 4" frame with 5/8" plywood and Tyvek weather barrier. Enclosure will be removed when new windows and storefront are installed. NOTE: Hollow metal frames to be replaced in kind on**

the same day.

- ~~4. Provide unit price to provide temporary weather protection at window type A between demolition and installation of new windows~~
- ~~5. Provide unit price to provide temporary weather protection at window type B between demolition and installation of new windows~~
6. All rough carpentry related to the interior of the building including blocking, wood nailers, etc. for the installation of fire extinguishers, doors, windows, toilet accessories, cabinets, toilet partitions, casework, millwork, etc. including fire treating, as required.
7. Supply and install metal and wood doors and frames, including receipt of doors and frames at the curb side.
8. Supply and install finish hardware related to all doors (hollow metal, wood and FRP), including receipt of hardware at the curb side. Aluminum doors/hardware by others.
9. All field trimming required to adjust to existing conditions.
10. All millwork, casework and trim. Including, but not limited to, plastic laminate headers and sills.
11. **Include removal and replacement of plastic laminate counter as indicated on the drawings to facilitate window replacement.**
- ~~12. Fire extinguishers, cabinets and accessories.~~
13. Window treatment. (Supply and install all roller shades)
14. Recessed entrance mats and frames.
- ~~15. Wall and corner guards.~~
16. Anchoring devices, fasteners, inserts and other related items associated with the installation of the above items.
17. This Contractor shall include in the base bid 40 hours of Journeyman carpenter time and 80 hours of common labor time for work to be directed by the Construction Manager.
18. This Subcontractor shall at a minimum provide and maintain for the length of the project, one temporary fire extinguisher for each 3,000 sq. ft of the protected building area. Fire extinguishers shall be 10lb, Multi-Purpose (ABC) dry chemical, UL labeled, with a rating

of 3a:40bc.

19. Coordinate electrical requirements with any automatic door operations.
20. ~~Furnish digital keypad access control devices.~~ Access Control by others.
21. Furnish hold open closers with fire alarm interface: Power wiring by Electrical Contractor. Fire alarm ties in by Electrical Contractor.
22. Coordinate card reader requirements with electrical hardware.
23. **ADD ALTERNATE #3: NEW SHEATHING WITH ACRYLIC FINISH & ALUMINUM FASCIA: Include Note C-7 on drawing 4.1 and 4.2.** Include replacement of Aluminum Fascia where indicated on plans.
24. ~~Provide unit price for replacement of 20 LF of Aluminum Wrapping over existing wood fascia.~~
25. Supply and install complete attic stair assembly. Work to include, but not limited to, demolition, ceiling modifications, attic stair unit and frame, supports, fire rated wood framing, etc. Review architectural plans for further details.
26. Provide temporary protection in main office and lobby to protect existing finishes, furniture, etc during demolition and construction.
27. Poly to be provided and draped over existing furniture during each phase of construction throughout the building.

DEMOLITION

1. Provide all labor, material, trucking, equipment, hoisting, scaffolding, power, temporary facilities, permit fees, supervision, layout, clean up, etc. for the complete performance of all demolition work.
2. Remove from site all combustible material including, but not limited to wood, steel, iron, structural steel, and dispose of in a legal manner. No on site burning of material will be allowed at any time.
3. Items of demolition shall include, but not necessarily be limited to, window treatments, blocking (shown to be replaced), wall framing, masonry walls, interior partitions, Interior storefront, HM Frames, Doors, mechanical and electrical equipment and fixtures, and related equipment.

4. **Door numbers 102 through 109 to have frame, transom & door removed and replaced in its entirety.**
5. Demolition of all interior items by this contractor. **Exterior storefront doors to be removed/replaced by others. ALL exterior hollow metal frames and associated doors to be removed & replaced by this contractor.**
6. This Contractor shall notify the Construction Manager immediately if hazardous materials (i.e. asbestos, lead, PCB's, etc.) are uncovered. At that time, all work in the affected area will be stopped until proper removal can be completed by others (i.e. hazardous material abatement contractor).
7. This Contractor shall clean public streets and sidewalks daily. This Contractor shall collect and remove from the site daily all rubbish, scrap and other debris resulting from its operations.
8. It is understood that all Work under this Contract shall be in strict accordance with the Building Code with the City, State and any other agency having jurisdiction. In the event of any conflict in any provisions of any regulatory agency and Contract Documents, the more stringent requirements shall apply.
9. This Contractor is aware of the structural capacities of various portions of the structure. Cranes, materials, deliveries and material storage, shall not exceed rated capacities without this Contractor taking appropriate steps to compensate for the imposition of loads which may exceed the design criteria and which are imposed solely by this Contractor's operations.
10. This Contractor shall provide any and all "fire watch" personnel required due to the Contractor's cutting, burning, welding or other open flame activity.
11. This Contractor shall visit the site of the proposed work, fully acquaint and familiarize himself with the conditions as they exist and the character of the operations to be carried out under the proposed Contract, and make such investigation as he may see fit so that he shall fully understand the facilities, physical conditions and restrictions affecting the work under the Contract. Claims for additional compensation and/or extensions of time because of Contractor's failure to familiarize himself with all conditions which might affect the work shall not be allowed.
12. This Contractor, in the performance of the Work under his subcontractor, shall maintain all required means of egress from the existing buildings and alter such stairs, platforms and fire escapes as required to satisfy all agencies having jurisdiction.
13. All equipment, materials and debris shall be regularly removed by this Contractor from

the Site as work progresses in such manner as not to create a nuisance, and shall be disposed of by this Contractor at his own expense, at locations to be determined by this Contractor. Permits required in connection with the disposal of the materials shall be obtained by this Contractor. Disposal shall be in accordance with all Federal, State and local laws, rules, codes, orders and regulations.

14. Materials and equipment to be salvaged or which have been sold to others by this Contractor must be promptly removed by this Contractor, and shall not be stored at the site. The offering, advertising, display or sale of materials and equipment will not be permitted.
15. Contractor shall remove debris promptly and will not burn anything on the site. Contractor shall keep required fire extinguishing equipment in serviceable condition, properly distributed so that it will be available for immediate use, particularly during any acetylene cutting operations. This Contractor shall afford adequate facilities for inspection by, and carry out the recommendations of, the local Fire Department. This Contractor shall maintain one fire riser during demolition.
16. This Contractor shall, prior to the start of Work, provide the name and location of proposed dump site to receive the demolition debris. Dump site must be licensed and acceptable to all local government agencies having jurisdiction.
17. This Contractor shall provide signed and stamped dump site debris tickets identifying the location, date, time and quantity of debris deposited at the dump site.
18. **Demolition of Windows (NOTE CD-1 on A 2.1 – 2.6) will be by abatement contractor.**
19. **Demolition of Sill (NOTE CD-2 on A 2.1 – 2.6) will be by glass/glazing contractor.**
20. **All asbestos containing glazing and window caulk to be removed by abatement contractor in conjunction with the installation schedule. All other demolition relevant to window replacement to be completed by this contractor.**
21. **ADD ALTERNATE #2: SECURE VESTIBULE- All demolition work associated with work the new secure vestibule at 225B Waiting on Sheet A2.4. This includes notes CD-4, CD-5, CD-6, CD-7, CD-8, and CD-9 on Sheet A2.4.**

MASONRY

1. Provide masonry units, reinforcing, accessories and related work.
1. Caulking of masonry to masonry and to dissimilar materials (**caulking of storefront only**)

to dissimilar materials by others).

2. Integral masonry flashings, expansion joints, insulation and other related items as required.
3. Grouting of door frames at masonry openings as specified.
4. Scaffolding as required to complete the work.
5. ~~Cementitious parging.~~
6. **Include brick repointing and repairs as noted in plans and specifications.**
7. ~~Provide Unit Price for 100 SF of brick repointing.~~
8. ~~Include restoring of exterior fine aggregate façade where indicated on plans.~~
9. ~~Provide Unit Price for restoration of 100 SF of exterior fine aggregate façade.~~
10. **ADD ALTERNATE #3: NEW SHEATHING WITH ACRYLIC FINISH & ALUMINUM FASCIA: Include Note C-6 on drawing 4.1 and 4.2, Provide new sheathing and acrylic finish to all sides of window projection.**

HOLLOW METAL AND FINISH HARDWARE

1. Furnish and Install hollow metal doors, frames, vision panels, finish hardware, wood doors and FRP doors.
2. Do not include aluminum entrance. Keying for aluminum entrances not confirmed by Construction Manager.
3. Keying. All lock sets. Provide Owner with copy of pin schedule.
4. Construction cylinders.
5. All material to be stored by this Contractor until delivery is requested
6. Deliveries to correspond to the construction schedule.
7. Provide field assistance to Electrical and Carpentry Contractors.
8. This contractor is responsible for all field measurements required to retrofit frames and/or doors in existing openings (renovation work only).

9. Provide 48 hour notice prior to delivery. All deliveries are to be between 7:00 AM and 3:30 PM.
10. Coordinate electrical requirements with any automatic door operations (include overhead).
11. Include filling of all interior hollow metal door frames in drywall where required.
12. **All FRP doors in hollow metal frames to be supplied by this contractor. FRP doors in Aluminum frames to be supplied and installed by glass/glazing contractor.**

DRYWALL

1. Provide metal studs, insulation, gypsum wallboard, taping, spackling, plaster and stucco.
2. Provide all framing and drywall as required for soffits.
3. Batt insulation, both thermal and acoustical and related work.
4. Acoustical sealant of penetrations in insulated drywall partitions.
5. Scaffolding and lifts for this work.
6. Comebacks and out-of-sequence work may be required and as such should be included.
7. Include all necessary field measurements.
8. Provide all metal framing as indicated for back up of other materials.
9. Provide metal furring.
10. Provide all glass fiber reinforced gypsum work including materials, taping (interior only).
11. Engineered shop and installation drawings, where required in specification.
12. Patch and paint adjacent surfaces as required due to construction and/or demolition
13. **Provide ALTERNATE No 1: Provide/Install Framing, drywall, ceiling, and painting per written description contained within Addendum No 01.**
14. **ADD ALTERNATE #2: SECURE VESTIBULE- All work associated with the following**

details: 2/A3.4, 3/A3.4, 2/E9.1, and 2/E9.2. Work associated with Door C6A to remain in base bid.

ACOUSTICAL CEILINGS

1. Provide acoustical panel ceilings, suspension system and hangers.
2. Furnish and install hold down clips where required by governing regulations for fire resistant ratings.
3. Reflected ceiling layout.
4. This Contractor shall cut openings in ceilings for sprinkler heads, lights, mechanical diffusers and grilles, etc.
5. Attic stock.
6. **Include demolition and replacement of acoustical ceiling to facilitate window replacement as indicated on the plans.**
7. ~~Provide unit price for the demolition and replacement of 20 SF of acoustical ceiling.~~
8. **ADD ALTERNATE #2: SECURE VESTIBULE- All work associated with the following details: 2/A3.4, 3/A3.4, 2/E9.1, and 2/E9.2. Work associated with Door C6A to remain in base bid**

PAINT AND VWC

1. Provide all painting ~~and vinyl or fabric wall covering~~ of all walls and ceilings as indicated on the finish schedule and of all disturbed surfaces.
2. Patch and paint disturbed surfaces adjacent to demolition/construction areas.
3. Sealing all interior joints between dissimilar materials that require sealants. **Including sealing of all wood and/or plastic laminate joints at new windows and/or storefront material.**
4. Paint all exposed block work and concrete work as shown on the room finish schedule.
5. Prime, stain or seal all wood trim and doors.
6. Provide supplementary ventilation as required in enclosed spaces.

7. Paint and caulk all hollow metal frames and doors as shown on the door schedule.
8. Prefinished items will not be painted by this Contractor.
9. Paint all semi-exposed wood blocking as indicated on the drawing.
10. Protection of adjacent surfaces.
11. Minor patching prior to application of finishes.
12. Clean up.
13. This Contractor to allow 40 man hours and all required paint materials for these man hours to be used as directed by the Construction Manager.
14. Attic stock.
15. Final coat of paint is to be installed after ceilings are installed, if directed by Construction Manager.
16. **ADD ALTERNATE #2: SECURE VESTIBULE- All work associated with the following details: 2/A3.4, 3/A3.4, 2/E9.1, and 2/E9.2. Work associated with Door C6A to remain in base bid**

FLOORING

1. Provide flooring in accordance with the finish schedule and specifications.
2. Prepare subfloor for finished flooring including leveling and patching. Base bid shall include all flashing patching and surface preparation required to perform the work of this Contractor.
3. ~~Resilient flooring.~~
4. Carpeting.
5. ~~Resilient base.~~
6. Resilient transition and reducer strips at edges of resilient flooring and at edges of carpeting.
7. Cleaning and protection.

8. Seaming diagrams.
9. Attic stock.
10. Provide and install entrance mat (complete installation).
11. Provide cutting and fitting around work of others.
12. **ADD ALTERNATE #2: SECURE VESTIBULE- All work associated with the following details: 2/A3.4, 3/A3.4, 2/E9.1, and 2/E9.2. Work associated with Door C6A to remain in base bid. Terrazzo repairs noted in Addendum 02 to be included in add alternate.**

FIRE PROTECTION

1. **Provide piping, fittings, couplings, and sprinkler heads as required for relocations and additions noted in Addendum No 01.**
2. **ADD ALTERNATE #2: SECURE VESTIBULE- All work associated with the following details: 2/A3.4, 3/A3.4, 2/E9.1, and 2/E9.2. Work associated with Door C6A to remain in base bid**

MECHANICAL

1. Provide a complete mechanical system as indicated on the Drawings and in the Specifications.
2. Include any and all demolition specific to this trade. To include, but not limited to, removal and disposal of all mechanical equipment shown to be removed.
3. Division 16 of the specifications should be reviewed as it relates to the power wiring and other requirements for HVAC equipment including the coordination of furnishing and installing motor starters as provided in the specifications.
4. This Contractor shall be responsible to designate an individual within his organization, intimately familiar with this project and assigned on site, to act as the System Start-up Coordinator. This individual must be pre-approved by the Construction Manager. This individual's responsibilities shall include, but not be limited to, coordinating the start-up of all mechanical equipment, including the coordination between the Electrical Contractor, the Controls Contractor, and all testing, adjusting and balancing work. This individual shall report on a weekly basis, in written form, to the Construction Manager. These reports shall include a summary of current conditions including manufacturers' start-ups, systems' deficiencies noted to date and the remediation of same, coordination issues between trades, system interfacing and forecasting, as necessary to project the

- completion of each individual system within the building.
5. Equipment bases and housekeeping pads.
 6. Permits/meters.
 7. Pipe and duct insulation.
 8. Penetrations through wall, floors, etc. including cutting, patching and fire safing.
 9. Testing and balancing.
 10. Clean up.
 11. All guarantees and warranties to begin at the substantial completion of the entire project. Maintain equipment prior to substantial completion.
 12. Hoisting, rigging and scaffolding.
 13. ATC.
 14. Ductwork, flex duct, grilles and diffusers.
 15. Louvers and vents related to HVAC operations.
 16. Roof curbs.
 17. Access panels.
 18. As-built drawings.
 19. Include relocation of kiln vent (including, but not limited to, duct modifications and wall penetrations) as noted on architectural plans.
 20. Include temp protection of Gym floor as noted on mechanical plans.
 21. **ADD ALTERNATE #2: SECURE VESTIBULE- All work associated with the following details: 2/A3.4, 3/A3.4, 2/E9.1, and 2/E9.2.** Include any duct modifications required at new front vestibule as indicated on architectural plans.
 22. Testing and Balancing of new system.

ELECTRICAL

1. Provide a complete electrical system as indicated on the drawings, schedules and in the specifications.
2. Include any and all demolition specific to this trade.
3. Division 15 of the specifications should be reviewed as it relates to the power wiring and other requirements for HVAC equipment including the coordination of furnishing and installing motor starters and controllers as detailed in the Specifications and on the Drawings.
4. Temporary electric installation, maintenance and removal. Refer to Division 1, Specification Section 015113 - TEMPORARY ELECTRIC, for specific scope.
5. Permits and inspections.
6. Penetrations through walls, floors, etc. including cutting, patching and fire safing.
7. Testing.
8. Clean up.
9. All guarantees and warranties to begin at the substantial completion of the entire project. Maintain equipment prior to substantial completion.
10. Hoisting, rigging and scaffolding.
11. Provide a fire alarm modifications as required on plans.
12. Pull strings and boxes for voice/data boxes.
13. As-built drawings.
14. Provide rough-in and final connection and related work for equipment provided under other contracts (i.e. kitchen, elevators, HVAC, sprinkler, motorized doors, etc.). Provide power to automatic hardware. Low voltage wiring from the controller to hardware shall be provided by the Doors, Frames and Hardware Contractor.
15. **Fire alarm and PA device relocations as indicated on Addendum 01.**
16. **ADD ALTERNATE #2: SECURE VESTIBULE- All work associated with the following details: 2/A3.4, 3/A3.4, 2/E9.1, and 2/E9.2.**

FINAL CLEANING

1. Prior to cleaning and polishing any surfaces this Contractor shall confirm the cleaning requirements from the manufacturer's literature provided for each separate surface. All cleaning should conform to these requirements.
2. Clean all new window units, interior and exterior.
3. Clean new interior door glass, side glass, vestibules, and entrance doors.
4. Vacuum all floor areas within construction areas, i.e., carpet, vinyl floor, ceramic tile, Genuwood, epoxy floor, seamless floors, etc.
5. Clean and polish disturbed areas within construction scope:
 - Casework and cabinets - interior of units and exterior of units, complete
 - Countertops
 - Soffits
 - All woodwork, i.e., railings, baseboards, doors, etc.
 - Vinyl base
 - Wall protection system
 - Ceramic tile walls
 - Miscellaneous metals
 - Window frames
 - **NOTE: ONLY dirt/debris created via construction is to be cleaned. Entire school is not to be cleaned.**
6. Wet mop/clean and polish vinyl floors, per manufacturer's recommendations.
7. ~~Dust all lighting fixtures (Note: Do not touch light fixtures with bare hands)~~
8. ~~Clean and polish all stainless steel hardware, doors, equipment, sinks, etc.~~
10. Include multiple trips to complete scope as follows: accommodate phased window and shade installation.

CONTRACT NO. A 02 - GLAZING/STOREFRONTS/INTERIOR GLASS AND GLAZING

A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

- Technical Specification Sections:

Division 0	Bidding and Contract Requirements
Division 1	General Requirements
Division 07	Thermal and Moisture Protection
Section 08 16 13	Fiberglass Doors
Section 08 41 13.10	Aluminum Framed Entrances and Storefronts - Interior
Section 08 51 13	Aluminum Windows
Section 08 71 00	Door Hardware
Section 08 80 00	Glazing

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide new and replacement windows, flashing and associated installation.
2. Provide ~~curtain wall~~, storefront, glass and glazing systems, ~~including skylights~~.
3. Provide manual aluminum door systems and handling.
4. ~~Provide automatic aluminum door systems, including hardware.~~
5. Finish hardware for aluminum doors only.
6. All glass and glazing at interior and exterior of building.
7. Caulking related to storefront doors and windows.
8. Mock-ups as required by the Drawings and Specifications.
9. Custom breakmetal trim and infill.
10. Include all aluminum flashing.
11. Hoisting/scaffolding related to the work of this Contract.
12. Coordinate edge of slab tolerances and field verify all rough openings.

13. Caulk between the materials supplied under this section and the adjacent surfaces.
14. Provide interior glass and glazing systems.
15. Interior door, partition, vision panel and window glass.
16. Caulking related to interior glazing.
17. Do not provide interior hollow metal or hardware. These items will be provided by others.
18. Coordinate glass types with partition and door fire ratings. Contact Construction Manager with any discrepancies.
19. Include all necessary design labor and quick-ship costs (if any) to supply windows such that they are ordered and can be delivered to the site for installation during each phase as shown on the construction schedule. Project start estimated to be 6/10/15 and completion 8/15/15.
20. All asbestos containing glazing and window caulk to be removed by abatement contractor in conjunction with the installation schedule. All other demolition relevant to window **and exterior storefront** replacement to be completed by this contractor.
21. Supply and installation of plastic laminate sill and/or headers and blocking is to be by others.
22. Window treatment demolition and installation is by others.
23. Provide a \$10,000 allowance to be used at the discretion of the Construction Manager.
24. **Demolition of Windows (NOTE CD-1 on A 2.1 – 2.6) will be by abatement contractor.**
25. **Demolition of Sill (NOTE CD-2 on A 2.1 – 2.6) will be by glass/glazing contractor.**
26. **All FRP doors in hollow metal frames to be supplied by others. FRP doors in Aluminum frames to be supplied and installed by glass/glazing contractor.**
27. **If Window installation is not complete prior to school commencing, work will need to be completed on 2nd shift at no additional expense to the Owner.**
28. **ADD ALTERNATE #2: SECURE VESTIBULE- All work associated with the following details: 2/A3.4, 3/A3.4, 2/E9.1, and 2/E9.2. Work associated with Door C6A to remain in base bid.**

END OF SECTION

SECTION 012300 - ALTERNATES

1. GENERAL PROVISIONS

- 1.1 The general provisions of the Contract, including the Conditions of the Contract (General, Supplementary and other conditions, if any) and Division 1 as appropriate, apply to the Work specified in this Section.
- 1.2 Refer to provisions in AIA Document A232 – 2009 Edition, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, CONSTRUCTION MANAGER AS ADVISOR EDITION, for requirements in addition to those specified in Division 1.
- 1.3 For work being constructed under separate prime contracts, provisions of this Section apply to each contract being bid.

2. BASE BID

- 2.1 The Base Bid shall consist of all work shown or specified in the Contract Documents, exclusive of any Additive Alternates specified herein.
- 2.2 The Base Bid shall include all work in any Subtractive Alternates specified herein.

3. ALTERNATES

- 3.1 State in the Bid Form the amount to be added to the Base Bid for each Alternate specified.
- 3.2 See Section 002113 - INSTRUCTIONS TO BIDDERS for related information.
- 3.3 The description of Alternates contained herein is in summary form. Detailed requirements for materials and execution shall be as specified in other sections and as shown on drawings.

Alternate No. 1: Provide/Install Framing, drywall, ceilings, and painting above windows as described in attached ADD Alternate No 1 Written Description.

Alternate No. 2: SECURE VESTIBULE including all work associated with the following details: 2/A3.4, 3/A3.4, 2/E9.1, and 2/E9.2., and all corresponding demolition work. Work associated with Door C6A to remain in base bid.

Alternate No. 3: NEW SHEATHING WITH ACRYLIC FINISH & ALUMINUM FASCIA: Include Note C-6 and C-7 on drawing 4.1 and 4.2 and CD-8 on drawing A2.6.

END OF SECTION