

ADDENDUM

Project Name: Warren Consolidated Schools
Secure Entrance Improvements

Addendum No: One (1)

Project Number: 12-157

Issue Date: April 16, 2013

Project Location: 31300 Anita, Warren, Michigan 48093

This Addendum forms a part of the above described Contract Documents and supersedes, supplements or clarifies parts thereof to the extent defined by the terms set forth in this Addendum.

This Addendum consists of (2) typed page(s) and the following attachments for a total of (18) pages, including specifications:
- Specification Sections: 003100, 012200, 087100 Hardware Sets

CLARIFICATIONS:

ITEM CL1 Contact info for glazing surface applied films: Sarah Goga, Michigan Glass Coatings – (248) 364-6667.

ITEM CL2 **Please note:** this is a Single Prime Contract (General Contractor) Bid Request. All work is to be included in submitted bid. It is the General Contractor's responsibility to determine scope definition of all trades. Based on the site walk-thru, a suggested division of work is as follows:

- 1) All new mechanical hardware, electronic hardware and access control products are furnished by one supplier.
- 2) All low voltage wiring and/or access control wiring is done by the access control provider.
- 3) All high voltage wiring is done by the electrician
- 4) All final testing for proper operation of access control system is by the access control provider.
- 5) All training shall be performed by the access control provider.
- 6) Include in each hardware set a riser diagram for electronic products
- 7) Access control provider's office should be located within 75 miles of the jobsite.

SPECIFICATIONS

ITEM SP1 SECTION 003100 Bid Form (Revised and Re-Issued)

- a. Add Unit Price No. 1.
- b. Add Unit Price No. 2.

ITEM SP2 SECTION 012200 Unit Prices (Issued in this addendum)

- a. Issued in its entirety.

ITEM SP3 SECTION 087100 Door Hardware (Re-Issued)

- a. Door hardware sets revised.

ITEM SP4 SECTION 087100 Door Hardware (Revised but not re-issued).

- a. Add the following Section 2.6

2.6 OFFLINE CONTROLLER

A. Manufacturer and Product:

1. Scheduled Manufacturer and Product: Schlage Electronics CT5000.

B. Requirements:

1. Offline single opening controller UL 294 listed and designed for offline electronic access control and supports up to two separate Wiegand reader inputs, three form C relay outputs, for strike, auxiliary and alarm, and three inputs that include door position, request-to-exit, and remote release.
2. Offline controller shall support up to 5000 users and 5000 audits, have the ability to be programmed locally via keypad or via the Handheld Programming Device, includes 15 foot (4.6 m) USB remote cable connector and decorative wall plate with USB input and supports, and has a LED visual indicators (including low battery and state of the relay).
3. The offline controller shall support a variety of card functions including: normal, toggle, freeze, pass through, construction, lockdown and Card + PIN applications and is compatible with the Districts existing proximity credential technologies.
4. The offline controller can be upgraded to have networked functionality. With the addition of a networked communication board and upgraded firmware, the controller becomes a wireless reader interface that can communicate via 900MHz wireless signals to a Schlage AD-Series PIM400 which connects to the networked access control system. The wireless reader interface eliminates the need to run additional wires to the door.

ITEM SP4 SECTION 13712 Video Intercom Door Station System (Issued in this addendum)
a. Issued in its entirety.

ARCHITECTURAL DRAWINGS:

ITEM A1 Sheet A1-03 Door Schedule and Details (Revised but not Re-Issued)

- A. Opening Schedule
- a. Change Door T103.1 to be Hardware Group 9.1, in lieu of 9.
 - b. Change Door T103.2 to be Hardware Group 9.2, in lieu of 9.

ITEM A2 Sheet A3-02 Holden Elementary (Revised but not Re-Issued)

- B. New Work Floor Plan 3 - Revise room name tag to read "MAIN OFFICE 102, in lieu of Secure Entry 102.
C. Electrical Plan 6 – Move electrical & data symbols associated with keynotes 605 & 606 into Main Office 102 area.

ITEM A3 Sheet A3-05 Jefferson Elementary (Revised but not Re-Issued)

- D. New Work Floor Plan 3 - Add Keynote #301 to the pull side latch jamb of door J102.2

ITEM A4 Sheet A3-06 Siersma Elementary (Revised but not Re-Issued)

- A. Storefront Elevation 11 – Delete in its entirety.

ITEM A5 Sheet A3-07 Wilde Elementary (Revised but not Re-Issued)

- A. Storefront Elevation 11 – Delete in its entirety.

BID FORM

BID PROPOSAL FOR: **Warren Consolidated Schools – Secure Entrance Upgrades**

BID TO: WARREN CONSOLIDATED SCHOOLS
Administration Building
Attention: Mr. John Lettang, Director of Fiscal Services
31300 Anita
Warren, MI 48093

BID DUE DATE: **April 23, 2013; 2:00pm**

BIDDERS NAME: _____

We have examined the Contract Documents for the proposed **Warren Consolidated Schools – Secure Entrance Upgrades** project as prepared by PARTNERS in Architecture, PLC.

In accordance therewith, the undersigned proposes to furnish all labor and materials for construction as set forth in the Contract Documents, including the following Addenda, if any (fill in the addenda number, thus confirming receipt):

Addendum Number _____ Addendum Number _____

Addendum Number _____ Addendum Number _____

1. Accompanying the proposal is a bid security for work required to be furnished by the Contract Documents, the same being subject to forfeiture in the event of default by the undersigned.
2. I agree to complete the Project, by the dates listed in Specification Section 011000 – Summary; provided that a notice to proceed is issued within thirty (30) days.
3. I understand that the Owner reserves the right to reject any or all bids, and it is agreed that this bid may not be withdrawn for a period of sixty (60) days from the opening thereof.
5. Attached herewith are the documents requested in the Supplementary Instructions to Bidders, Specification Section 001100, paragraph 4.3.5.

A. **BASE BID:** (Insert a base bid amount in the blank provided).

_____ Dollars \$ _____

B. UNIT PRICES: Refer to section 012200 for a complete description

1. Unit Price No. 1: AIPhone Video Intercom Door Station System

_____ Dollars \$ _____ (each)

2. Unit Price No. 2: Offline Controller Network Upgrade

_____ Dollars \$ _____ (each)

C. ALTERNATES: Refer to section 012300 for a complete description

1. Alternate No. 1: LAMINATED SAFETY GLASS

Add: \$ _____

2. Alternate No. 2: NEW CARPET & BASE IN MAIN OFFICE ROOM #103 AT HATHERLY

Add: \$ _____

D. SCHEDULE: Fill in proposed construction duration to achieve substantial completion. Refer to Specification Section 011000 for schedule requirements.

E. Company Name: _____

Contact Name: _____

Signature: _____ Title _____

Address: _____

Email: _____

Phone Number: _____ Fax Number: _____

Date: _____

END OF BID FORM

SECTION 012200 - UNIT PRICES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for unit prices.
- B. Related Requirements:
 - 1. Section 004322 "Unit prices form" to be included with bid form 003100.
 - 2. Section 012600 "Contract Modification Procedures" for procedures for submitting and handling Change Orders.

1.2 DEFINITIONS

- A. Unit price is an amount incorporated in the Agreement, applicable during the duration of the Work as a price per unit of measurement for materials, equipment, or services, or a portion of the Work, added to or deducted from the Contract Sum by appropriate modification, if the scope of Work or estimated quantities of Work required by the Contract Documents are increased or decreased.

1.3 PROCEDURES

- A. Unit prices include all necessary material, plus cost for delivery, installation, insurance, applicable taxes, overhead, and profit.
- B. Measurement and Payment: See individual Specification Sections for work that requires establishment of unit prices. Methods of measurement and payment for unit prices are specified in those Sections.
- C. Owner reserves the right to reject Contractor's measurement of work-in-place that involves use of established unit prices and to have this work measured, at Owner's expense, by an independent surveyor acceptable to Contractor.
- D. List of Unit Prices: A schedule of unit prices is included in Part 3. Specification Sections referenced in the schedule contain requirements for materials described under each unit price.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF UNIT PRICES

A. Unit Price No. 1: Video Intercom Door Station System

1. Description: Provide AIPhone Video Intercom System with door station and connect to control one door with existing electric door release hardware according to Section 13712 Video Intercom System.
2. Unit of Measurement: AIPhone JMS 4AEDV complete system with one JM-4HD and includes associated low-voltage wiring. Assume distance between door to be controlled & desk mounted JM communication device to be 150 feet.

B. Unit Price No. 2: Offline Controller Network Upgrade

1. Description: Provide Vanderbilt access control system also to include all labor, equipment, materials, ancillary materials and services to furnish, install, test, and turnover additional components added to an existing system to provide a complete and operational microprocessor-based Access Control System (ACS), as described in hardware sets.

2. Unit of Measurement:

Equipment required at each building:

1	Vanderbilt	Reader Controller	VRCNX-R
1	Schlage	Power Supply	PS-904 x 900-BBK
1	Schlage	Wireless PCB	23848385
1	Schlage	Panel Interface Board	PIM400-485
1	Schlage	Power Supply	593PI-12DC

Miscellaneous Equipment Required for District EAC System:

1	Vanderbilt	Enrolment Reader	VENROLL
1	Vanderbilt	VSMS Single user Enterprise Software	VSMS-SFT-1
1	Vanderbilt	Database Conversion	Express to Enterprise
1	Schlage	Hand Held programmer	HHD-KIT
1		Software Installation, Configuration and Training	

EAC controller to be installed in Head-End room, PIM to be within 200' of access point or acceptable wireless test point.

END OF SECTION 012200

adjustment in operation. The manufacturer's representative 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 distributor, 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	MAGNETIC LOCK	M450P	628	SCE
1	EA	PUSHBUTTON	621RDEX DA	629	SCE
1	EA	MOTION SENSOR	SCANII	WHT	SCE
2	EA	POWER SUPPLY	PS902	LGR	SCE
1	EA	MULLION MOUNT BRKT	JK-MB		AIP
1	SET	INTERCOM SYSTEM	JMS-4AEDV		AIP
1	EA	DESK MOUNT	MCW-S/A		AIP
1	EA	RELEASE RELAY	RY-24L		AIP
1	EA	ACCESS CONTROL	CT5000 X MT11 OR MT15		SCE
1	EA	WIRING DIAGRAM	ELEVATION AND POINT-TO-POINT		

THE SUPPLIER WILL FIELD VERIFY THE EXISTING DOOR AND FRAME PREPARATIONS FOR COMPATIBILITY WITH THE SPECIFIED HARDWARE AND ADJUST IF REQUIRED FOR PROPER FIT AND FUNCTION.

WHEN DOORS ARE LOCKED, VISITORS MAY REQUEST ACCESS WITH THE INTERCOM SYSTEM. THE LOCKED DOORS MAY BE UNLOCKED REMOTELY WITH THE INTERCOM SYSTEM. FREE EGRESS IS ALWAYS ALLOWED.

COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT AND ALL RELATED TRADES.

HARDWARE SET NO. 01.1

EACH TO HAVE:

1	EA	REMOVABLE MULLION	KR822	689	PRE
2	EA	EXIT DEVICE	2101	630	PRE
1	EA	MORTISE CYLINDER	1E74	626	BES
(RE-USE BALANCE OF EXISTING HDWE)					

HARDWARE SET NO. 02

EACH TO HAVE:

2	EA	CONT. HINGE	112HD	628	IVE
1	EA	POWER TRANSFER	EPT10	689	VON
1	EA	EXIT DEVICE	2802CD X C1702A	630	PRE
1	EA	EXIT DEVICE	ELR2803CD X C1703A	630	PRE
1	EA	RIM CYLINDER	1E72	626	BES
2	EA	MORTISE CYLINDER	1E74	626	BES
2	EA	SURFACE CLOSER	4111 SHCUSH	689	LCN
1	EA	POWER SUPPLY	ELR150 X CM150-08		PRE
1	EA	POWER SUPPLY	PS902	LGR	SCE
1	EA	RELEASE RELAY	RY-24L		AIP
1	EA	ACCESS CONTROL	CT5000 X MT11 OR MT15		SCE
1	EA	WIRING DIAGRAM	ELEVATION AND POINT-TO-POINT		

THE LOCKED DOORS MAY BE UNLOCKED REMOTELY WITH THE INTERCOM SYSTEM. FREE EGRESS IS ALWAYS ALLOWED.
 COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT AND ALL RELATED TRADES.

HARDWARE SET NO. 02.1

EACH TO HAVE:

1	EA	POWER TRANSFER	EPT10	689	VON
1	EA	REMOVABLE MULLION	KR822	689	PRE
1	EA	EXIT DEVICE	2101	630	PRE
1	EA	EXIT DEVICE	ELR2103	630	PRE
1	EA	RIM CYLINDER	1E72	626	BES
1	EA	MORTISE CYLINDER	1E74	626	BES
1	EA	POWER SUPPLY	ELR150 X CM150-08		PRE
1	SET	INTERCOM SYSTEM	JMS-4AEDV		AIP
1	EA	DESK MOUNT	MCW-S/A		AIP
(RE-USE BALANCE OF EXISTING HDWE)					

THE SUPPLIER WILL FIELD VERIFY THE EXISTING DOOR AND FRAME PREPARATIONS FOR COMPATIBILITY WITH THE SPECIFIED HARDWARE AND ADJUST IF REQUIRED FOR PROPER FIT AND FUNCTION.
 WHEN DOORS ARE LOCKED, VISITORS MAY REQUEST ACCESS WITH THE INTERCOM SYSTEM. THE LOCKED DOORS MAY BE UNLOCKED REMOTELY WITH THE INTERCOM SYSTEM. FREE EGRESS IS ALWAYS ALLOWED.
 COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT AND ALL RELATED TRADES.

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HARDWARE SET NO. 03

EACH TO HAVE:

1	EA	ELECTRIC STRIKE	ES-6400	630	SCE
1	EA	POWER SUPPLY	PS902	LGR	SCE
1	EA	RELEASE RELAY	RY-24L		AIP
1	EA	ACCESS CONTROL	CT5000 X MT11 OR MT15		SCE
1	EA	WIRING DIAGRAM	ELEVATION AND POINT-TO-POINT (RE-USE BALANCE OF EXISTING HDWE)		

THE SUPPLIER WILL FIELD VERIFY THE EXISTING DOOR AND FRAME PREPARATIONS FOR COMPATIBILITY WITH THE SPECIFIED HARDWARE AND ADJUST IF REQUIRED FOR PROPER FIT AND FUNCTION.

WHEN DOORS ARE LOCKED, VISITORS MAY REQUEST ACCESS WITH THE INTERCOM SYSTEM. THE LOCKED DOORS MAY BE UNLOCKED REMOTELY WITH THE INTERCOM SYSTEM. FREE EGRESS IS ALWAYS ALLOWED.

COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT AND ALL RELATED TRADES.

HARDWARE SET NO. 04

EACH TO HAVE:

2	EA	CONT. HINGE	112HD	628	IVE
1	EA	POWER TRANSFER	EPT10	689	VON
1	EA	EXIT DEVICE	2802CD X C1702A	630	PRE
1	EA	EXIT DEVICE	ELR2803CD X C1703A	630	PRE
1	EA	RIM CYLINDER	1E72	626	BES
2	EA	MORTISE CYLINDER	1E74	626	BES
2	EA	SURFACE CLOSER	4111 SHCUSH	689	LCN
1	EA	POWER SUPPLY	ELR150 X CM150-08		PRE
1	EA	POWER SUPPLY	PS902	LGR	SCE
1	SET	INTERCOM SYSTEM	JMS-4AEDV		AIP
1	EA	DESK MOUNT	MCW-S/A		AIP
1	EA	RELEASE RELAY	RY-24L		AIP
1	EA	ACCESS CONTROL	CT5000 X MT11 OR MT15		SCE
1	EA	WIRING DIAGRAM	ELEVATION AND POINT-TO-POINT		

WHEN DOORS ARE LOCKED, VISITORS MAY REQUEST ACCESS WITH THE INTERCOM SYSTEM. THE LOCKED DOORS MAY BE UNLOCKED REMOTELY WITH THE INTERCOM SYSTEM. FREE EGRESS IS ALWAYS ALLOWED.

COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT AND ALL RELATED TRADES.

HARDWARE SET NO. 05

EACH TO HAVE:

2	EA	ALARM KIT	ALK	630	PRE
2	EA	MORTISE CYLINDER	1E74	626	BES
2	EA	DUMMY TRIM	4902	626	PRE

THE SUPPLIER WILL FIELD VERIFY THE EXISTING DOOR AND FRAME PREPARATIONS FOR COMPATIBILITY WITH THE SPECIFIED HARDWARE AND ADJUST IF REQUIRED FOR PROPER FIT AND FUNCTION.

HARDWARE SET NO. 06

EACH TO HAVE:

1	EA	ELECTRIC STRIKE	ES-6400	630	SCE
1	EA	POWER SUPPLY	PS902	LGR	SCE
1	SET	INTERCOM SYSTEM	JMS-4AEDV		AIP
1	EA	DESK MOUNT	MCW-S/A		AIP
1	EA	RELEASE RELAY	RY-24L		AIP
1	EA	ACCESS CONTROL	CT5000 X MT11 OR MT15		SCE
1	EA	WIRING DIAGRAM	ELEVATION AND POINT-TO-POINT		

THE SUPPLIER WILL FIELD VERIFY THE EXISTING DOOR AND FRAME PREPARATIONS FOR COMPATIBILITY WITH THE SPECIFIED HARDWARE AND ADJUST IF REQUIRED FOR PROPER FIT AND FUNCTION.

WHEN DOORS ARE LOCKED, VISITORS MAY REQUEST ACCESS WITH THE INTERCOM SYSTEM. THE LOCKED DOORS MAY BE UNLOCKED REMOTELY WITH THE INTERCOM SYSTEM. FREE EGRESS IS ALWAYS ALLOWED.

COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT AND ALL RELATED TRADES.

HARDWARE SET NO. 07

EACH TO HAVE:

1	EA	ELECTRIC STRIKE	6300 FSE	630	VON
1	EA	POWER SUPPLY	PS902	LGR	SCE
1	SET	INTERCOM SYSTEM	JMS-4AEDV		AIP
1	EA	DESK MOUNT	MCW-S/A		AIP
1	EA	RELEASE RELAY	RY-24L		AIP
1	EA	ACCESS CONTROL	CT5000 X MT11 OR MT15		SCE
1	EA	WIRING DIAGRAM	ELEVATION AND POINT-TO-POINT (RE-USE BALANCE OF EXISTING HDWE)		

THE SUPPLIER WILL FIELD VERIFY THE EXISTING DOOR AND FRAME PREPARATIONS FOR COMPATIBILITY WITH THE SPECIFIED HARDWARE AND ADJUST IF REQUIRED FOR PROPER FIT AND FUNCTION.

WHEN DOORS ARE LOCKED, VISITORS MAY REQUEST ACCESS WITH THE INTERCOM SYSTEM. THE LOCKED DOORS MAY BE UNLOCKED REMOTELY WITH THE INTERCOM SYSTEM. FREE EGRESS IS ALWAYS ALLOWED.

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COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT AND ALL RELATED TRADES.

HARDWARE SET NO. 07.1

EACH TO HAVE:

1	EA	ELECTRIC STRIKE	6300 FSE	630	VON
1	EA	POWER SUPPLY	PS902	LGR	SCE
1	EA	MULLION MOUNT BRKT	JK-MB		AIP
1	SET	INTERCOM SYSTEM	JMS-4AEDV		AIP
1	EA	DESK MOUNT	MCW-S/A		AIP
1	EA	RELEASE RELAY	RY-24L		AIP
1	EA	ACCESS CONTROL	CT5000 X MT11 OR MT15		SCE
1	EA	WIRING DIAGRAM	ELEVATION AND POINT-TO-POINT (RE-USE BALANCE OF EXISTING HDWE)		

THE SUPPLIER WILL FIELD VERIFY THE EXISTING DOOR AND FRAME PREPARATIONS FOR COMPATIBILITY WITH THE SPECIFIED HARDWARE AND ADJUST IF REQUIRED FOR PROPER FIT AND FUNCTION.

WHEN DOORS ARE LOCKED, VISITORS MAY REQUEST ACCESS WITH THE INTERCOM SYSTEM. THE LOCKED DOORS MAY BE UNLOCKED REMOTELY WITH THE INTERCOM SYSTEM. FREE EGRESS IS ALWAYS ALLOWED.

COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT AND ALL RELATED TRADES.

HARDWARE SET NO. 08

EACH TO HAVE:

1	EA	POWER TRANSFER	EPT10	689	VON
1	EA	POWER SUPPLY	ELR150 X CM150-08		PRE
1	EA	POWER SUPPLY	PS902	LGR	SCE
1	EA	LATCH RETRACTION KIT	ELRK		PRE
1	EA	ACCESS CONTROL	CT5000 X MT11 OR MT15		SCE
1	EA	WIRING DIAGRAM	ELEVATION AND POINT-TO-POINT		

THE SUPPLIER WILL FIELD VERIFY THE EXISTING DOOR AND FRAME PREPARATIONS FOR COMPATIBILITY WITH THE SPECIFIED HARDWARE AND ADJUST IF REQUIRED FOR PROPER FIT AND FUNCTION.

THE LOCKED DOORS MAY BE UNLOCKED REMOTELY WITH THE INTERCOM SYSTEM. FREE EGRESS IS ALWAYS ALLOWED.

COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT AND ALL RELATED TRADES.

HARDWARE SET NO. 09

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	45H7D14H	626	BES
1	EA	ELECTRIC STRIKE	ES-6400	630	SCE
1	EA	SURFACE CLOSER	4011	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	WALL STOP	WS33	626	IVE
1	EA	POWER SUPPLY	PS902	LGR	SCE
1	EA	RELEASE RELAY	RY-24L		AIP
1	EA	ACCESS CONTROL	CT5000 X MT11 OR MT15		SCE
1	EA	WIRING DIAGRAM	ELEVATION AND POINT-TO-POINT		

THE LOCKED DOORS MAY BE UNLOCKED REMOTELY WITH THE INTERCOM SYSTEM. FREE EGRESS IS ALWAYS ALLOWED.
 COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT AND ALL RELATED TRADES.

HARDWARE SET NO. 09.1

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	45H7D14H	626	BES
1	EA	ELECTRIC STRIKE	ES-6400	630	SCE
1	EA	SURFACE CLOSER	4011	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	WALL STOP	WS33	626	IVE
1	EA	POWER SUPPLY	PS902	LGR	SCE
1	EA	RELEASE RELAY	RY-24L		AIP
1	EA	ACCESS CONTROL	CT5000 X MT11 OR MT15		SCE
1	EA	WIRING DIAGRAM	ELEVATION AND POINT-TO-POINT		

THE LOCKED DOORS MAY BE UNLOCKED REMOTELY WITH THE INTERCOM SYSTEM. FREE EGRESS IS ALWAYS ALLOWED.
 COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT AND ALL RELATED TRADES.

HARDWARE SET NO. 09.2

EACH TO HAVE:

1	EA	STOREROOM LOCK	45H7D14H	626	BES
1	EA	ELECTRIC STRIKE	ES-6400	630	SCE
1	EA	POWER SUPPLY	PS902	LGR	SCE
1	EA	RELEASE RELAY	RY-24L		AIP
1	EA	ACCESS CONTROL	CT5000 X MT11 OR MT15		SCE
1	EA	WIRING DIAGRAM	ELEVATION AND POINT-TO-POINT (RE-USE BALANCE OF EXISTING HDWE)		

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THE SUPPLIER WILL FIELD VERIFY THE EXISTING DOOR AND FRAME PREPARATIONS FOR COMPATIBILITY WITH THE SPECIFIED HARDWARE AND ADJUST IF REQUIRED FOR PROPER FIT AND FUNCTION.

THE LOCKED DOORS MAY BE UNLOCKED REMOTELY WITH THE INTERCOM SYSTEM. FREE EGRESS IS ALWAYS ALLOWED.

COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT AND ALL RELATED TRADES.

HARDWARE SET NO. 10

EACH TO HAVE:

1	EA	ELECTRIC STRIKE	6300 FSE	630	VON
1	EA	POWER SUPPLY	PS902	LGR	SCE
1	EA	ACCESS CONTROL	CT5000 X MT11 OR MT15		SCE
1	EA	WIRING DIAGRAM	ELEVATION AND POINT-TO-POINT		

THE SUPPLIER WILL FIELD VERIFY THE EXISTING DOOR AND FRAME PREPARATIONS FOR COMPATIBILITY WITH THE SPECIFIED HARDWARE AND ADJUST IF REQUIRED FOR PROPER FIT AND FUNCTION.

THE LOCKED DOORS MAY BE UNLOCKED BY PRESENTING AN AUTHORIZED CREDENTIAL. FREE EGRESS IS ALWAYS ALLOWED.

COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT AND ALL RELATED TRADES.

HARDWARE SET NO. 11

EACH TO HAVE:

(RE-USE EXISTING)

HARDWARE SET NO. 12

EACH TO HAVE:

1	EA	RELEASE RELAY	RY-24L (RE-USE BALANCE OF EXISTING HDWE)		AIP
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THE LOCKED DOORS MAY BE UNLOCKED BY PRESENTING AN AUTHORIZED CREDENTIAL. FREE EGRESS IS ALWAYS ALLOWED.

COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT AND ALL RELATED TRADES.

HARDWARE SET NO. 13

EACH TO HAVE:

1	EA	DOOR CHIME KIT	BK110NBWH (RE-USE BALANCE OF EXISTING HDWE)		NUT
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END OF SECTION

SECTION 013712 – VIDEO INTERCOM DOOR STATION SYSTEM

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Hands-free/Handset color video intercom security system.

1.2 RELATED SECTIONS

- A. Section 16050 - Basic Electrical Materials and Methods.

1.3 REFERENCES

- A. American National Standards Institute (ANSI/TIA/EIA) 568 - Commercial Building Telecommunications Cabling Standard.
- B. International Organization for Standards (ISO) 9001:2000 - Quality Management Systems - Requirements.

1.4 SYSTEM DESCRIPTION

- A. The JM Series shall provide a large 7-inch (180 mm) touch screen monitor for clear visitor identification and easy operation control. The JM Series shall be installed at a maximum of 4 door locations and connected to a maximum of 8 inside locations with internal communication between stations. Connection to and integration of CCTV cameras for surveillance capabilities shall be available.
 - 1. The system shall be hard wired and constructed with a 2-wire communication system for the door stations and a Cat5e/6 communication system for the video locations system.
 - 2. Hearing Assistance: Provide T-Coil connection for hearing aids.
- B. Functional Components: As indicated on the drawings or as required to complete system.
 - 1. Master Station:
 - a. JM-4MED: Hands-free/Handset color video intercom master station.
 - 2. Sub Master Station:
 - a. JM-4HD: Hands-free/Handset color video intercom sub master station.
 - 3. Video Door Station:
 - a. JK-DV: PanTilt & Zoom vandal-resistant video door station, surface mount.
 - 4. Power Supply:
 - a. PS-2420UL: 24V DC Power supply.
 - 5. Long Distance/CCTV Adaptor:
 - a. JMW-BA: Long distance/CCTV adaptor.
 - 6. External Devices:
 - a. RY-3DL: Multiple door release adaptor.
- C. System Design: Unless noted otherwise on drawings provide system layout as follows. Three wiring methods are possible; Station-to-Station, Centralized Wiring, or Combined Wiring, where both methods are employed in the same system.
 - 1. Provide Station-to-Station Wiring: Directly connect a master station to a sub master station.
 - a. Maximum distance of farthest sub master from master station: 980 feet (300 m), cumulative.
 - b. Maximum distance between sub master stations in station-to-station wiring: 98 feet (30 m) when 3 stations are powered off 1 power supply, or 165 feet (50 m) when 2 stations powered off of 1 power supply.

1.5 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Shop Drawings: Submit the following:
 - 1. Wiring Diagrams: Indicate wiring for each item of equipment and interconnections between items of equipment.
 - 2. Include manufacturer's names, model numbers, ratings, power requirements, equipment layout, device arrangement, complete wiring point-to-point diagrams, and conduit layouts.
- D. Installation and Operation Manuals:
 - 1. Submit manufacturer's installation and operation manual, including operation instructions and component wiring diagrams.
 - 2. Provide detailed information required for Owner to properly operate equipment.
- E. Warranty: Submit manufacturer's standard warranty.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: ISO 9001:2008 certified company.
- B. Installer Qualifications: Factory trained and experienced with system installations of scope and size required for the Project.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage: Store materials in clean, dry area indoors in accordance with manufacturer's instructions.
- C. Handling: Protect materials during handling and installation to prevent damage.

1.8 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Aiphone Corp., which is located at: 1700 130th Ave. N. E. ; Bellevue, WA 98005; Toll Free Tel: 800-692-0200; Tel: 425-455-0510; Fax: 425-455-0071; Email: [request info \(info@aiphone.com\)](mailto:info@aiphone.com); Web: www.aiphone.com
- B. Requests for substitutions will be considered in accordance with provisions of Section 016000.

2.2 HANDS-FREE/HANDSET COLOR VIDEO INTERCOM SYSTEM

- A. Color Video Intercom System: JM Series Intercom System as manufactured by Aiphone Corporation.
- B. Room Master Station: JM-4MED 7 inches (180 mm) Digital PTZ Video Master Station with Memory.
1. The JM Series shall accommodate up to 4 Door Stations and 8 Master Stations in a single system.
 2. Provide icon driven One Touch Hands Free operation. Touch the screen to communicate with visitors using the built-in microphone and speaker or use the handset at any time during conversation for privacy.
 3. Operation: From Master Station. Provide the following.
 - a. Room Call: Touch screen icon to call a single sub master station or all sub master stations simultaneously.
 - b. Play: Touch screen icon to play recorded images from door stations.
 - c. Settings: Touch screen icon to program settings and adjustments.
 - d. Security: Touch screen icon to activate the security mode or to change security settings.
 - e. Monitor: Touch screen icon to monitor a door station or sub master station.
 - f. Option: Touch screen icon to activate the connected external device(s).
 4. Available Functions During Monitoring: Provide the following.
 - a. Pan-Tilt-Zoom/Wide camera control.
 - b. When monitoring is started, an image shall be shown in wide mode. Pan & Tilt and adjusting images shall be possible from the Master Station.
 - c. Door release shall be possible from the Master Station.
 - d. Volume control shall be possible from the Master Station.
 - e. Manual recording shall be possible from the Master Station.
 - f. If a CCTV camera is connected instead of a video door station at entrance, provide audio monitoring and communication via the GT-D.
 5. Physical Characteristics:
 - a. Power supply: DC 24V (from power supply).
 - b. Current Consumption: 390 mA.
 - c. Communication: Handset - Simultaneous communication.
 - d. Communication: Hands-free - Auto-voice actuation.
 - e. Ambient Temperature 32 degree F to 104 degree F (0 to 40 degrees C).
 - f. Monitor: 7 inches (180 mm) color LCD monitor.
 - g. Mounting: Wall mount.
 - h. Electrical box: 3-gang box
 - i. Material: Flame resistant ABS resin.
 - j. Color: White.
 - k. Dimensions: 5-11/16 inches H x 10-1/16 inches W x 1-7/8 inches D (145 mm by 255 mm by 48 mm).
 - l. Weight: Approx. 1.74 lbs (790 g).
- C. Room Station (Sub Master Station): JM-4HD.
1. Provide icon driven One Touch Hands Free operation. Touch the screen to communicate using the built-in microphone and speaker or use the handset at any time during conversation for privacy.
 2. Physical Characteristics:
 - a. Power supply: DC 24V (from power supply).
 - b. Current Consumption: 200 mA.
 - c. Communication: Handset - Simultaneous communication.
 - d. Communication: Hands-free - Auto-voice actuation.
 - e. Ambient Temperature: 32 degree F to 104 degrees F (0 to 40 degrees C).
 - f. Monitor: 7 inch color LCD monitor.
 - g. Electrical box: 3-gang box.

- h. Material: Flame resistant ABS resin.
 - i. Color: White.
 - j. Dimensions: 5-11/16 inches H x 10-1/16 inches W x 1-7/8 inches D (145 mm by 255 mm by 48 mm).
 - k. Weight: Approx. 1.74 lbs (790 g).
- D. Door/Entrance Station: JK-DV
- 1. The JM-4MED shall automatically record images. Recording starts approximately 2 seconds after receiving a call.
 - 2. 170 degree wide angle and 100 degree vertical angle camera to minimize blind spots, ensuring a clear view of the door station area.
 - 3. Zoom for Clarity/ Pantilt for Control:
 - a. Video door stations feature a wide angle camera to observe more activity behind the door. In addition, digital PanTilt and Zoom can focus on an area for greater detail.
 - b. Oversized buttons and intuitive icons allow for quick navigation and control. Conventional push buttons shall not be permitted.
 - c. Equipped with an advanced light adjustment feature to compensate for varying light levels. If a picture is too dark, increase of the brightness level at the door station shall be controlled at the master station.
 - 4. Record Images of Visitors:
 - a. After a call is placed, the JM Series records 6 images per call to internal memory.
 - b. Provide an SD / SDHC card (not included) as the primary storage location, with which recording frequency increases to 4 pictures per second for up to 10 seconds per call.
 - c. Provide documentation of outside disturbances by manually recording them at any time.
 - 5. Physical Characteristics:
 - a. Operating Temperature: 14 degrees F to 140 degrees F (-10 to 60 degrees C).
 - b. Dimensions:
 - 1) JK-DV 6-13/16 inches x 3-7/8 inches x 1 inch (173 x 98 x 25 mm).
 - c. Power Supply: DC 24V (from master station).
 - d. Current Consumption: 90 mA.
 - e. Mounting:
 - 1) JK-DV: Surface mount direct to surface.
 - f. Weight:
 - 1) JK-DV: 1.3 lbs (550g).
- E. Power Supply: PS-2420UL, 24V DC Power supply.
- F. External Devices:
- 1. RY-3DL: Multiple (3) door release adaptor.
- G. Long Distance Adaptor: JMW-BA
- 1. Power Supply: DC 24V (from power supply)
 - 2. Current Consumption: 90 mA
 - 3. Operating Temperature: 32 degree F to 104 degrees F (0 to 40 degrees C).
 - 4. Mounting: Wall-mount
 - 5. Weight: Approx. 7 oz (200 g).

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine areas to receive integrated security and communication system.

- B. Notify Architect of conditions that would adversely affect installation or subsequent use.
- C. Do not begin installation until unacceptable conditions are corrected.

3.2 PREPARATION

- A. Verify the following compliance before starting installation.
 - 1. All units, except for the entrance station and tenant door station, are designed for indoor use only. Do not use outdoors.
 - 2. The unit turns inoperative during power failure.
 - 3. In areas where broadcasting station antennas are close by, intercom system may be affected by radio frequency interference.
 - 4. Keep the intercom wires at least 1 foot (30 cm) away from strong electrical wiring (AC 100-240 V) including, in particular, wiring for inverter electrical appliances. Noise and malfunction could result.
 - 5. Keep the unit more than 3.3 feet (1 m) away from radio or TV set.
 - 6. If a strong light shines on the main unit screen, the picture may turn white or only silhouettes will be visible.
 - 7. Other manufacturer's devices (such as sensor, detectors, door releases) used with this system, comply with the manufacturer's installation requirements.
 - 8. The LCD panel is manufactured with very high precision techniques, inevitably will have a very small portion of its picture elements always lit or not lit at all. This is not considered a unit malfunction. Please be aware of this in advance.

3.3 INSTALLATION

- A. Install integrated security and communication system in accordance with manufacturer's instructions at locations indicated on the Drawings.
- B. Mount equipment plumb, level, square, and secure. For video entrance stations and video door stations, comply with manufacturer's design requirements to provide optimum picture quality of station monitoring.

3.4 SET-UP AND ADJUSTING

- A. Adjust integrated security and communication system for proper operation in accordance with manufacturer's instructions.

3.5 DEMONSTRATION AND TRAINING

- A. Demonstration:
 - 1. Demonstrate that integrated security and communication system functions properly.
 - 2. Perform demonstration at final system inspection by qualified representative of manufacturer.
- B. Instruction and Training:
 - 1. Provide instruction and training of Owner's personnel as required for operation of integrated security and communication system.
 - 2. Provide hands-on demonstration of operation of system components and complete system, including user-level program changes and functions.
 - 3. Provide instruction and training by qualified representative of manufacturer.

3.6 PROTECTION

- A. Protect installed integrated security and communication system from damage during construction.

END OF SECTION