



# San Diego Unified School District

PHYSICAL PLANT OPERATIONS CENTER ANNEX  
4860 Ruffner Street, San Diego, CA 92111-1522

(858) 496-1902  
Fax: (858) 496-1953

Graham Champion  
Labor Compliance and  
Construction Contracts Supervisor

June 14, 2021

Mr. Hank Withaar  
C.W. Driver, LLC  
7588 Metropolitan Dr.  
San Diego, CA 92108  
hwithaar@cwdriver.com

Dear Mr. Withaar:

**Subject: CZ-19-0861-42 – Design Build Construction of Heating, Ventilation, and Air Conditioning (HVAC) at Multiple Sites – Package D (SDUSD Project #91550071.1)**

**Notice to Proceed: No. 24– HVAC Construction at Jefferson Elementary School**

This letter constitutes your notice to proceed with HVAC contingency work at Jefferson ES per your proposal with the scope of work breakdown for COR #79 to Robert Daniels dated January 29, 2020, for the not-to-exceed amount of \$2,315.46.

Work shall begin on June 16, 2021, and be completed by June 30, 2021.

Please refer to this NTP number on all your correspondence and invoices.

Original invoice should be sent to:

San Diego Unified School District  
PPO Center, Attn: Catherine Bendixen  
4860 Ruffner Street  
San Diego, CA 92111

Please call your construction manager if you have any questions regarding this NTP. Invoicing inquiries should be directed to Catherine Bendixen at (858) 637-6246.

Sincerely,

A handwritten signature in black ink, appearing to read "G. Champion".

Graham Champion  
Labor Compliance and Construction Contracts Supervisor

GC:mf

Attachment

C: D. Nestor, R. Daniels, R. Kessler, PSA

SDUSD HVAC Upgrade  
Change Order Request

January 29, 2020

PROJECT: SDUSD HVAC Upgrade  
SUBJECT: COR #79 - Upgraded Fire Alarm Panel at Jefferson ES

Dear Bob,

Please review this Change Order Request in the amount of \$2,315.46 to upgrade the fire alarm panel at Jefferson Elementary School. The panel included in the DSA approved drawing set was a "Residential Fire 7 Burglary" panel for "Household Fire Warning Systems. It was discussed with District personnel that a commercial type panel would be a better application for the HVAC upgrades where carbon monoxide systems were required per code. The direction from the District was to upgrade the panels to Simplex 400 type systems. The Simplex panel has been installed accordingly.

Attached for your review is supporting information.

Sincerely,



Matt Christensen  
Project Manager

**Authorization**

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Signature authorizes C.W. Driver to proceed pursuant to the terms of this Change Order Request.

SDUSD HVAC Upgrade  
Change Order Request



**Cost Breakdown**

<b>Item</b>	<b>Description</b>	<b>Amount</b>
1	Revised Fire Alarm Panel for CO Detection - Jefferson ES	\$2,086
2	CWD OH&P	\$229.46
Total Change Order Request:		\$2,315.46

**Jobsite**  
Jefferson ES

**CWD Office**  
7588 Metropolitan Drive  
San Diego, CA 92108  
T 619.696.5100 F 619.696.5110

CWD Job No. 190003.  
Report Date: 1/29/20





**Exhibit "A" - Payment - Extra, Additional, or Deleted Work  
Agreement No. CZ19-0861-42**

NTP No. 8

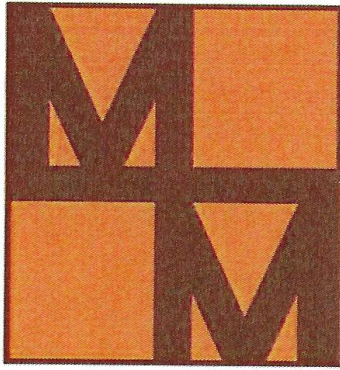
Site: Jefferson ES

COR #79 - Upgrade FA Panel at Jefferson ES

<b>PAYMENT - EXTRA, ADDITIONAL, OR DELETED WORK</b>		<b>Extra/Credit</b>
1.	<u>General Contractor Material (From Page 2)</u> a. Attach itemized quantity and unit cost plus sales tax b. Include information where derived, i.e., "Means Building Construction Cost Data" or other source of mutually agreed to by all parties.	\$0.00
2.	<u>General Contractor Labor ( From Page 3)</u>  Attach itemized hours and rates per certified payrolls and prevailing wage chart. Rates shall only included a maximum of 15% for payroll burden plus actual costs for Workers' Compensation Insurance. Payment for extra supervision will be paid when extra Work is done in a time period other than normal Working hours.	\$0.00
3.	Subtotal - (Item #1 plus Item #2)	\$0.00
4.	<u>General Contractor's overhead, profit, supervision, bond fees</u> A maximum aggregate total of 16% of Item #3. This item is not allowed on Extended Overhead	\$0.00
5.	<b>Total General Contractor (Item #3 plus Item #4)</b>	<b>\$0.00</b>
6.	<u>Subcontractor Material</u> a. Attach itemized quantity and unit cost plus sales tax b. Include information where derived, i.e., "Means Building Construction Cost Data" or other source of mutually agreed to by all parties.	\$2,086.00
7.	<u>Subcontractor Labor</u>  Attach itemized hours and rates per certified payrolls and prevailing wage chart. Rates shall only included a maximum of 15% for payroll burden plus actual costs for Workers' Compensation Insurance. Payment for extra supervision will be paid when extra Work is done in a time period other than normal Working hours.	\$0.00
8.	<b>Subtotal - (Item #6 plus Item #7)</b>	<b>\$2,086.00</b>
9.	<u>General Contractors' overhead, supervision, bond fees and profit for Subcontractor Work</u> (maximum aggregate total of 11% of Item #8) This item is not allowed on Extended Overhead	\$229.46
10.	Subcontractor's Overhead and Profit Maximum aggregate total of 15% of Item #8. Not to be included for Work provided by General Contractor. No Sub-Tier markups allowed. Attach signed Subcontractor documentation on Subcontractor letterhead. This item is not allowed on Extended Overhead	\$0.00
11.	<b>Subtotal - (Items #9 plus Item #10)</b>	<b>\$229.46</b>
<b>TOTAL</b>	<b>(Item #5 plus Item #8 plus Item #11)</b>	<b>\$2,315.46</b>

No Mark-Up Allowed on Sub-tier Scope





**MORROW-MEADOWS CORPORATION**  
 Electrical and Data/Communications Contractors and Engineers  
 San Diego  
 13000 Kirkham Way- Poway, CA, 92064  
 California License No. 230813  
 Phone: (858) 974-3650  
 Fax: 0

JOB NAME: SDUSD HVAC Upgrades  
 MMC JOB #: 2419413  
 MMC CONTRACT #: 1  
 MMC PCO #: 1AI

**JOBSITE PROPOSAL AND CHANGE ORDER FORM**

TO: C.W Driver Construction  
7588 Metropolitan Drive  
San Diego, CA, 92108  
 ATTN: Matt Christensen

DATE: 8/22/2019  
 CUST REF #: RE 019  
 GC CONTR #: \_\_\_\_\_

T&M  LUMP SUM  U/P  PROPOSAL  NTE  BUDGET  BILL SEPARATELY? YES  NO   
 IF YES: INVOICE NOW  HOLD FOR APP

**DESCRIPTION OF WORK**

All subcontracted services and equipment for the procurement of (3) SimplexGrinnel 4007es Panels for CO detection, (1) unit each at Chavez, Jefferson, and Rowan schools in lieu of the Honeywell Vista panel called out on the SDA drawing per Rfi response 019. Please refer to the attached Equipment, Material and labor breakdown provided by Johnson Controls.

PCO Amount \$ ~~6,258~~  
 \$2,086

**SCHEDULE ID'S AFFECTED**

Quotation expires in 30 days. Lack of written approval by the expiration date will require re-evaluation of this Change Order / Proposal prior to acceptance.

This work will not begin until a signed contract change, or written notice to proceed is issued.

**CLARIFICATIONS**

This pricing is based on the same terms and conditions outlined in the base contract with C.W. Driver Construction.

**EXCLUSIONS**

Clean-Up  Fireproofing   
 Bond

This CO/Proposal requires 0.0 days extension to the Project Schedule.

The cost of this Change Order / Proposal includes only the direct costs which can be identified at this time. There are no impact of ripple costs and no delay costs included in this proposal. Should it be determined at a later date that we are experiencing impact costs because of multiple changes, delays or other causes beyond our control, we will submit those costs at that time.

**MORROW-MEADOWS CORPORATION**

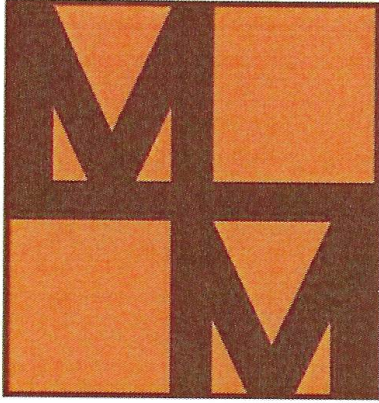
By: Mike Collins Title: Project Manager Date: 8/22/2019

Customer: C.W Driver Construction

By: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

CUSTOMER NO.	JOB NO.	SUB JOB	CONTRACT	ITEM	SEQ
DATE APPROVED	CUSTOMER CONTRACT / REFERENCE	CUST C/O #	OWNER'S DATE	VOID DATE	VOIDED BY





**MORROW-MEADOWS CORPORATION**

Electrical and Data/Communications Contractors and Engineers

San Diego

13000 Kirkham Way- Poway, CA, 92064

California License No. 230813

Telephone: (858) 974-3650

Facsimile:

Project: SDUSD HVAC Upgrades

MMC Job Number: 2419413

MMC PCO Number: 1A1

Date Submitted: 8/22/2019

Customer Ref No.: RE 019

Submitted By: Mike Collins

Title: Project Manager

**PROPOSED CHANGE ORDER RECAP SHEET**

MATERIAL COST SUMMARY		
DESCRIPTION	RATE	AMOUNT

LABOR COST SUMMARY			
DESCRIPTION	HOURS	RATE	AMOUNT

SUBCONTRACT COST SUMMARY		
DESCRIPTION	SUBCONTRACTOR	AMOUNT
Instrumentation & Controls		\$ <del>6,258.00</del>
<b>SUBCONTRACT TOTAL COST</b>		<b>\$ <del>6,258.00</del></b>

PCO SUMMARY RECAP		
TOTAL RAW COST FROM ABOVE		\$ <del>6,258.00</del>
SUB TOTAL		\$ <del>6,258.00</del>
<b>GRAND TOTAL</b>		<b>\$ <del>6,258.00</del></b>



3568 Ruffin Rd South  
San Diego, CA 92123  
Phone 858.633.9100

Date: 6/26/2019

Pages including this sheet: 3

Attn: Mike Collins

Project: SDUSD Design Build HVAC Pkg D

From: Ken Clay - JCI Fire Protection

Subject: Simplex 4007 panel for CO detection

Following is our quoted price for the attached change: Johnson Controls, CO # 1

Materials	\$5,625.00
Labor and Support	\$0.00
Freight	\$196.88
Tax	\$435.94
	<hr/>

$\$6,258/3 = \$2,086$  each

Net change to contract

**\$6,258.00**

**Any work that is not specifically listed on this proposal is excluded.** This change proposal is based on the usual cost elements such as labor, materials, and normal markup and does not include any amount for interference, disruptions, rescheduling, change in the sequence of work, delays and/or associated acceleration.

We expressly reserve the right to submit our request for any of these items should we be faced with performing our work under any of these conditions.

This change proposal is limited to modifications involving our original scope of work. This cost proposal supersedes all previously submitted cost proposals relating to this same work.

Work which may be required to complete this change order which is the work of other trades is not a part of this change proposal.

This quote is valid for 30 calendar days from the above date and void thereafter.

**Please note that any delays in this process may adversely affect scheduling of the final Fire Marshall inspections and ultimately impact owner occupancy dates.**

**ALL AFFECTED WORK is on hold pending signed notification of either the acceptance or rejection of the enclosed change order quotation.**

**Signed approval at the bottom of the Pricing Summary must be faxed to my attention at 858.740.0156**

Approved by: \_\_\_\_\_  
 Print Name: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Date: \_\_\_\_\_

Sincerely,

*Ken Clay*

Project Manager  
JCI Fire Protection

IMMEDIATE RESPONSE REQUIRED

FOR YOUR INFORMATION

NO RESPONSE REQUIRED

PLEASE FORWARD





**Equipment, Material and Labor Breakdown**

Date: 6/26/2019

Job: SDUSD Design Build HVAC Pkg D

Change: 1

**Scope:**

Customer Ref.: RFI 019

Provide (3) SimplexGrinnell 4007es Panels for CO detection, 1 each at Chavez, Jefferson & Rowan schools in lieu of the Honeywell Vista panel called out on the DSA drawings per RFI response 019. Electrical contractor to mount and run power to 4007 panels at each location.

	Description	Quantity	Extended Labor	Per	Cost	Extended Cost
1	4007es Panel - SimplexGrinnell	3		E	\$5,625	\$5,625
2	0	0		E	\$0	
3	0	0		E	\$0	
4	0	0		E	\$0	
5	0	0		E	\$0	
6	0	0		E	\$0	
7	0	0		E	\$0	
8	0	0		E	\$0	
9	0	0		E	\$0	
10	0	0		E	\$0	
11	0	0		E	\$0	
12	0	0		E	\$0	
13	0	0		E	\$0	
14	0	0		E	\$0	
15	0	0		E	\$0	
16	0	0		E	\$0	
17	0	0		E	\$0	
18	0	0		E	\$0	
19	0	0		E	\$0	
20	0	0		E	\$0	
21	0	0		E	\$0	
22	0	0		E	\$0	
23	0	0		E	\$0	
24	0	0		E	\$0	
25	0	0		E	\$0	
26	0	0		E	\$0	
27	0	0		E	\$0	
28	0	0		E	\$0	
29	0	0		E	\$0	
30	0	0		E	\$0	

**Total Materials**

\$5,625



**COST PROPOSAL**

(For potential changes to original contract)

**Job: SDUSD Design Build HVAC Pkg D**

**Date: 6/26/2019**  
**Change: 1**

**MATERIALS**

1	Total material cost				<b>\$5,625.00</b>
2	OH&P Factor				\$0.00
3	Subtotal:				\$5,625.00
4	Tax				\$435.94
5	Freight				\$196.88
					<b>Total Material: \$6,257.81</b>

**LABOR**

2	CAD	0	Hrs @	70.00 =	\$0.00
3	Comm	0	Hrs @	90.00 =	\$0.00
4	Design	0	Hrs @	87.00 =	\$0.00
5	Install	0	Hrs @	90.00 =	\$0.00
6	PM	0	Hrs @	95.00 =	\$0.00
7	Total Labor Cost				<b>\$0.00</b>
	OH&P				\$0.00
					<b>Total Labor \$0.00</b>

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**CHANGE ORDER TOTAL \$6,257.81**

**ADDITIONAL DAYS REQUIRED**

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## Request for Information

SAN DIEGO UNIFIED SCHOOL DISTRICT Facilities Planning & Construction / Physical Plant Operations

4860 Ruffner St San Diego, CA 92111-1522

<b>Project:</b>	Jefferson ES HVAC Phase 2 <i>CHAVEZ</i>	<b>Document:</b>	018
<b>Title:</b>	Carbon Monoxide Detection Control Panel	<b>Sub Ref. No.:</b>	MMC RFI 019
<b>Contract No.:</b>	CZ19-0861	<b>Date:</b>	06/17/2019
<b>From:</b>	CW Driver LLC	<b>Required Date:</b>	06/21/2019
<b>To:</b>		<b>Response Date:</b>	
<b>Plan Ref:</b>	ECP-601, Product Data		

### Question:

Jefferson drawing sheet ECP-601 identifies the installation of a Honeywell control panel which is stated as being a "Residential Fire 7 Burglary" panel for Household Fire Warning system units. Is it acceptable to substitute the Simplex 400&ES Fire Control Panel attached? Please confirm.

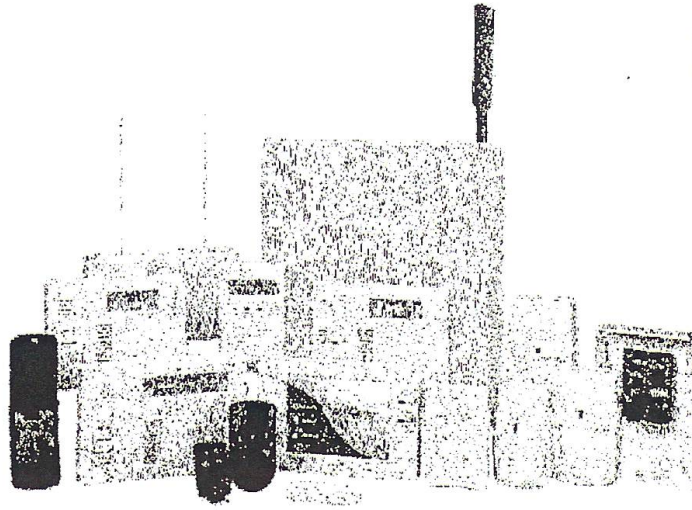
### Proposed Solution:

### Answer:

No exceptions taken.  
J. Ramirez, SWA  
6/18/19



## VISTA-21iP CONTROL PANEL



Honeywell's high capacity, feature-rich VISTA-21iP lets you deliver more value to your customers on each and every sale. The VISTA-21iP provides up to 48 zones of protection, an on-board IP connection, graphic keypad support and dual partitions. The VISTA-21iP gives you the ability to send alarm signals and upload/download via an Internet Protocol (IP), improving the speed at which information can be delivered

to and from the control panel. When used with an optional AlarmNet GSM that snaps right on the board, the VISTA-21iP can be installed in premises without TELCO lines – guaranteeing communication independent of any infrastructure. The panel's installation advantages, innovative end-user benefits and robust system capacity make the value-priced VISTA-21iP an ideal choice for higher-end installations.

## FEATURES

- Internet alarm reporting and uploading/downloading capability via on-board AlarmNet Internet Communicator
- Supports four graphic touchscreen keypads
- Wireless keys can be programmed without using zones
- Eight on-board hardwired zones standard (15 when Zone Doubling feature is used)
  - 40 hardwired expansion zones
  - 40 wireless expansion zones
- Two low current on-board trigger outputs
- 100 Event Log viewable at system keypads with time/date stamp
- 48 system user codes assignable to either partition
- Expandable to 48 total zones when used with hardwired and/or wireless expansion modules
- Two independent partitions plus a common partition
  - Global arming from any system keypad
  - Goto function to view or operate one partition from the other
  - Separate partition account numbers

- 16 output devices
  - Relays (Model 4204 Relay Modules, or 4229 Expansion Module), and/or X-10® devices (when used with a 4300 Transformer)
- Four installer-configurable zone types allows the installer to create custom zone types by assigning all zone attributes
- Supports four-wire, and up to 16 two-wire smokes
  - Works with Sentrol CleanMe™ maintenance signal
- Multiple actions on output devices depending on system state
  - Turns lights off when system arms
  - Turns the same light on when system disarms
  - Flashes same lights when system is in alarm
- Built-in phone line cut monitor with programmable delay and annunciation options
  - Display on system keypads
  - Trigger local sounders
  - Trigger system bell

### Security Dealer Features

- Automatic System Load Shed
  - During extended AC power fail, the system battery will be disconnected to prevent irreversible battery failure. Reduces service calls to replace batteries.

- Dynamic Signaling
  - Reduces redundant reporting to the central station when multiple reporting methods are used; i.e. digital dialer and AlarmNet radio

### Valuable End-User Features

- Viewable on system keypads:
  - Exit countdown
  - Time and date display\*
  - Event log\*
- Auto keypad backlighting on entry
- Keyswitch arming
- Programmable macro buttons and single-button arming
- Supports a variety of wireless remote controls for single-button operation
- User Scheduling
  - Automatically activates X-10 and relays at programmed times
  - Latchkey reports to pagers
  - Auto arm/disarm
  - "User access" time windows
- Supports up to four end-user numeric pagers
- VIP Module allows system control from any touchtone phone
- Chime by zone

\*Requires custom alpha keypad



# VISTA-21iP

## CONTROL PANEL

### SPECIFICATIONS

#### Electrical

- Aux. power 12VDC, 600mA maximum
- Seven hour standby at 400mA aux. load with four amp hour battery
- 16.5VAC/40VA transformer
- Alarm output 12VDC, 2.0 amps max.
  - For agency listed installations, combined aux. and alarm output cannot exceed 700mA

#### Output Control

- Supports up to four relay boards (up to 16 relays)
- Optional X-10 transformer/interface (part no. 4300) may be used to control up to 16 X-10 receiving devices

#### Zones

- Eight hardwired zones (15 with zone doubling)
- Selectable response 10msec, 350msec, 750msec
- Assignable to any partition
- 20 selectable zone types plus four configurable zone types
- Programmable swinger suppression

#### Expansion Devices

- 4219 – Eight hardwired zones – 16mA
- 4204 – Up to four relays – 15mA standby (each active relay draws an additional 40mA)
- 4229 – Eight hardwired zones and two relays – 36mA (each active relay draws an additional 40mA)

#### Accessories

- VISTA-GSM Snap-in Dual-Path Digital Wireless Communicator (IP required for activation and registration)
- 4286 VIP Voice Module – 220mA

- 5881ENL RF Receiver supports up to eight zones – 60mA
- 5881ENM supports up to 16 zones – 50mA
- 5881ENH up to 48 zones – 50mA
- 5883H High Security Transceiver Module supports up to 48 zones – 80mA
- Supports Eagle 1225 and 1221 boards

#### Keypads

- 6160 Custom Alpha (required for programming) – 100mA
- 6160V Custom Alpha Voice – 100mA
- 6150 Fixed English LCD – 85mA/40mA
- 6150V Fixed English Voice LCD – 85mA/40mA
- 6150RF Fixed English RF LCD – 85mA/40mA
- 6148 Fixed English LCD – 70mA/30mA
- 6270 Graphic Touchscreen User Interface
- 6271C Color Graphic Touchscreen User Interface
- 6271CV Color Graphic Touchscreen User Interface with Voice
- 8132 Symphony Advanced User Interface

#### Agency Listings

##### ETL listing

- Residential Fire and Burglary:
  - Household Fire Warning System Units – ANSI/UL 985, 2000/05/26 (5th edition) with revisions up to 2004/04/29

- Standard for Safety for Digital Alarm Communicator System Units – ANSI/UL 1635, 1996 (3rd edition)
- Safety of Household Burglar Alarm System Units, ANSI/UL 1023, issued 1996/11/25 (6th edition) with revisions up to 12/30/04
- Commercial Burglary:
  - Standard for Safety for Police Station Connected Burglar Alarm Units and Systems – ANSI/UL 365 (4th edition), issued 1997/01/31 with revisions up to 2005/03/08
  - Standard for Safety Local Burglar Alarm Units and Systems – UL 609 (11th edition), issued 1996/08/28 with revisions up to 2005/03/17
  - Standard for Safety Central Station Burglar Alarm Units – ANSI/UL 1610 (3rd edition), issued 1998/10/26 with revisions up to 2005/08/16

#### Communications

- VISTA-GSM Snap-in Dual-Path Digital Wireless Communicator (IP required for activation and registration)
- Touchtone or pulse standard TELCO dialers
- Formats supported
  - ADEMCO Contact ID
  - ADEMCO 4 + 2 Express
  - ADEMCO low speed
  - Sescoc/Radionics
- 3 + 1, 4 + 1 and 4 + 2 reporting
- Reporting capabilities
  - Split
  - Dual
  - Split/Dual – True dial tone detection
- Low battery reports 11.2 – 11.6VDC
- AC loss and restoral reporting supported

### ORDERING

<b>VISTA-21iP</b>	Control Panel
<b>VISTA-21iPSIA</b>	Control Panel for SIA Installations
<b>VISTA-GSM</b>	Optional Snap-in Radio Module
<b>VISTA-ULK1</b>	Cabinet for Listed Commercial Burglary Applications

#### Honeywell Security & Communications

Honeywell  
2 Corporate Center Dr. Suite 100  
P.O. Box 9040  
Melville, NY 11747  
www.honeywell.com

# Honeywell



### Features

**Compatible with Simplex ES Net and 4120 fire alarm networks**

**Satisfies a variety of new and retrofit applications**

**4.3" (109 mm) diagonal color touchscreen display:**

- Provides detailed system status and point information
- Supports dual language selection, including unicode character languages
- A custom background display appears when operation is normal

**Eight Point Zone/Relay Module:**

- Each point is selectable as an IDC input or Relay output, Class A IDCs require 2 points (one out and one return); one module is standard, up to 3 additional modules can be field installed for a total of 4 eight point zone/relay modules per system
- Each point on the IDC/Relay Module can be configured as a control relay rated 2 A @ 30 VDC (resistive) as either normally open or normally closed
- Can be powered directly from the power supply or through the optional 25 VDC Regulator Module
- IDC end-of-line resistor value can be selected from a wide range of resistance values for retrofit convenience

**Electrically isolated IDNet+ addressable initiating device SLC:**

- Provides built-in short circuit isolation for monitoring and control of TrueAlarm analog sensors and IDNet communications monitoring and control devices; for use with either shielded or unshielded, twisted or untwisted single pair wiring; outputs are Class A or Class B
- Standard panel SLC provides up to 100 addressable points; optional additional loop expansion modules provide an additional isolated loop with short circuit isolation for the IDNet+ channel; each loop expansion module also provides an additional 75 addressable points

**Power Supply Features:**

- Four Notification Appliance Circuits (NACs) selectable as Class A or Class B with 6 A total available current
- NAC end-of-line resistor value can be selected from a wide range of resistance values for retrofit convenience
- Additional notification power capacity is available using the 4009 IDNet NAC Extender
- Battery backup charging of up to 33 Ah; up to 18 Ah for cabinet mounted batteries and up to 33 Ah batteries for mounting in close-nipped remote battery cabinet

**General Mechanical:**

- Red or platinum cabinet; rated NEMA 1 and IP30

**4007ES Listings reference:**

- UL 864 - Control Units, System (UOJZ); Control Unit Accessories, System, Fire Alarm (UOXX); Control Units, Releasing Device Service (SYZV)
- UL 2017 - Emergency Alarm System Control Units (CO detection), (FSZI)
- ULC-S559 - Central Station Fire Alarm System Units (DAYRC)
- ULC-S527 - Control Units, System, Fire Alarm (UOJZC); Control Unit Accessories, System, Fire Alarm (UOXXC); Control Units, Releasing Device Service (SYZVC)

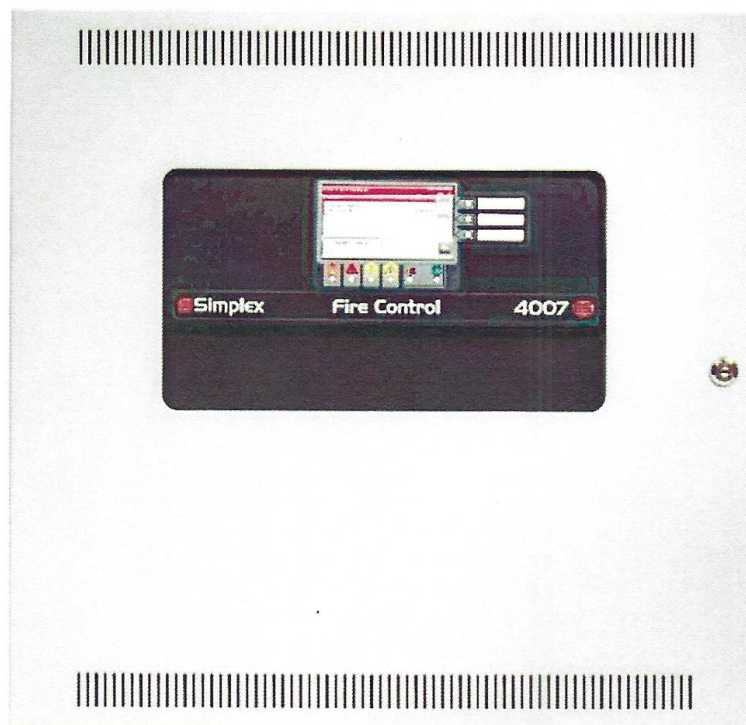


Figure 1: 4007ES Hybrid Panel Front View

**Software Feature Summary:**

- Current and previous panel configuration maintained in on-board memory
- An internal Ethernet service port is available for service computer connections to perform configuration updates, downloads and uploads; report downloads, and system software
- Internal USB interface allows a memory stick to store job revisions, update revised jobs and panel software, and save detailed system reports from the panel

**Optional modules and connections include:**

- Fire Alarm Network Interface Card for ES Net or 4120 network
- Peer-to-Peer network communications, supports either Class B or Class X operation
- Point or Event DACT assembly for IP Communicators
- Up to two additional IDNet+ addressable device output loop connections with short circuit fault protection and with 75 additional point capacity each
- Front mounted 48 LED annunciator with custom label inserts; LEDs are programmable for up to 24 IDC zones of alarm and trouble annunciation or other custom annunciation requirements
- Remote LED annunciator support via RUI communications port for use with UTP wiring
- Dual RS-232 ports (for printer, PC annunciator or third party interface)
- TrueInsight Remote Gateway
- Alarm relays and auxiliary relays
- City connections, with or without disconnect switch
- 4003EC Voice Control Panels
- 4009 IDNet NAC Extenders to extend NAC capability for power and distance
- Battery brackets for seismic area protection (see Mechanical Description.)

\* This product has been approved by the California State Fire Marshal (CSFM) pursuant to Section 13144.1 of the California Health and Safety Code. See CSFM Listing 7165-0026/0378 for allowable values and/or conditions concerning material presented in this document. NYC Fire Dept CDA #6191A. At the time of publication only UL and ULC listings are applicable to ES Net network products. Additional listings may be applicable, contact your local product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co. are the property of Tyco Fire Protection Products.



## Introduction

4007ES Series Fire Detection and Control Panels provide extensive installation, operator, and service features with point and module capacities suitable for a wide range of system applications. Panels can be configured for stand-alone or networked fire control operation. The convenient and intuitive color touchscreen provides easy access for typical system response actions and for detailed system review or configuration updates with password control to limit user access. Flexible for new and retrofit applications. Standard conventional IDCs and addressable IDNet+ communications provide flexibility for both new and retrofit systems. IDC and NAC end-of-line resistor values are selectable to match a wide range of existing initiating device circuits and notification appliance circuits.

## ES panel compatibility with ES Net

Simplex ES Network (ES Net) is a next generation IP based fire network that uses industry standard network technology and infrastructure and allows for simplified network upgrades, easy terminal connectivity and IP file transfer between nodes; and advanced network diagnostics.

ES fire alarm control panels can be upgraded to operate on an ES network by adding an ES Net NIC to the panel.

To upgrade an existing 4120 network to ES Net, all of the 4120 NIC cards on the network loop must be replaced with ES Net NICs.

**Note:** ES NICs and 4120 NICs cannot be mixed on the same network loop.

For more detailed information on ES Net, consult datasheet S4100-0076, and talk to your local Simplex product supplier.

## Operator Interface

### Convenient Status Information

With the locking door closed, the glass window allows viewing of the display status LEDs. The user interface is a 4.3" diagonal color touchscreen LCD with separate status LEDs as shown below.

LED indicators describe the general category of activity being displayed with the LCD providing more detail. For the authorized user, unlocking the door provides access to the control functions and allows further inquiry by scrolling the display for additional detail.

### Operator Interface and Software Features

- Convenient and detailed operator information is easily accessed using a logical, menu-driven touchscreen display with password access control
- Multiple automatic and manual diagnostics for maintenance reduction
- Alarm and Trouble History Logs (up to 1000 entries for each, 2000 total events) are available for viewing from the display or for printing to a connected printer, or downloaded to a service computer
- Module level ground fault searching assists installation and service by locating and isolating modules with grounded wiring
- WALKTEST silent or audible system test performs an automatic self-resetting test cycle and supports up to 8 WALKTEST groups
- Install Mode allows grouping of multiple troubles for uninstalled modules and devices into a single trouble condition (typical with future phased expansion); with future equipment and devices grouped into a single trouble, operators can more clearly identify events from the commissioned and occupied areas

## Touchscreen Display with LED Status Indicators

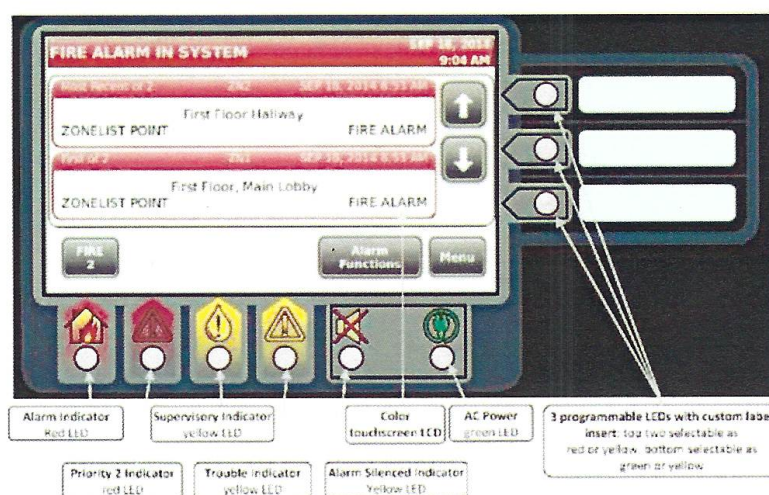


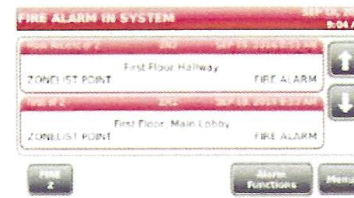
Figure 2: Touchscreen Display with LED Status Indicators

## Operator Screen Reference

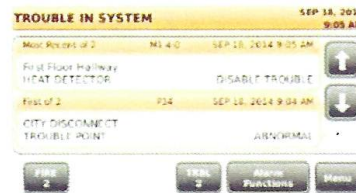
**Main Menu Screen** provides easy navigation to the function required. Buttons A, B, and C have programmable functions.



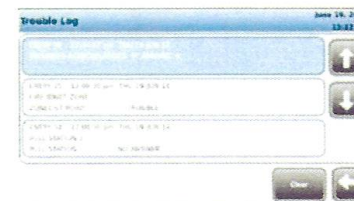
**System Alarm Screen** identifies active alarms with custom labels displayed, arrows allow navigation through the list.



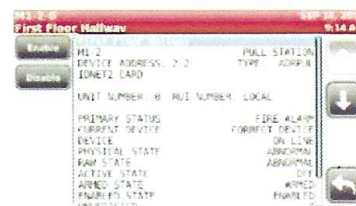
**System Trouble Screen** identifies active troubles with custom labels displayed, arrows allow navigation through the list.



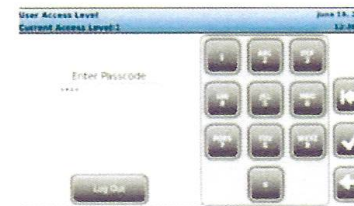
**Trouble Log Screen** allows review of past troubles with time stamp and point details shown.



**Point Information Screen** allows review of point details, arrows allow navigation through the information.



**User Access Login Screen** controls access to panel operations as determined per panel.



## Mechanical Description

- Locking door with polycarbonate window
- Latching front panel assembly swings forward for convenient internal access
- Smooth box surfaces are provided for locally cutting conduit entrance holes exactly where required
- Modules are power-limited (except as noted, such as relay modules)
- Battery compartment (bottom) accepts two batteries, up to 18 Ah, to be mounted within the cabinet without interfering with module space; charger capacity is up to 33 Ah; for batteries greater than 18 Ah, refer to Module and Accessories Selection Information for external battery cabinet details



- Cabinet assembly design has been seismic tested and is certified to IBC and CBC standards as well as to ASCE 7 categories A through F, requires battery brackets as detailed on data sheet *S2081-0019*

### IDNet+ Addressable Device Control

The 4007ES Hybrid provides an IDNet+ addressable initiating device Signaling Line Circuit (SLC) that supervises wiring connections and the individual device communications status on the SLC. With 2-wire IDNet+ SLCs, initiation, monitoring, and control devices such as manual fire alarm stations, TrueAlarm sensors, control relays, and sprinkler waterflow switches can communicate their identity and status and receive fire alarm system control. Additional addressable interface modules include circuit isolators, conventional IDC zone adapters, and interface to other system circuits such as fans, dampers, and elevator controls.

### IDNet+ Addressable Device Operation

Each addressable device on the IDNet+ communication channel is continuously interrogated for status condition such as: normal, off-normal, alarm, supervisory, or trouble. Both Class B and Class A operation is available. Sophisticated poll and response communication techniques ensure supervision integrity and allow for "T-tapping" of the circuits for Class B operation. Devices with LEDs pulse the LED to indicate receipt of a communications poll and can be turned on steady from the panel. With addressable devices, the location and status of the connected device is monitored, logged, and displayed on the operator interface LCD with each device having its own 40 character custom label for precise identification.

### TrueAlarm Addressable Sensor Operation

Addressable initiating device communications include operation of TrueAlarm smoke and temperature sensors. Smoke sensors transmit an output value based on their smoke chamber condition and the CPU maintains a current value, peak value, and an average value for each sensor. Status is determined by comparing the current sensor value to its average value. Tracking this average value as a continuously shifting reference point filters out environmental factors that cause shifts in sensitivity.



Figure 3: TrueAlarm Photo Sensor with Base



Figure 4: TrueAlarm Photo/Heat Sensor in CO Base

### Programmable sensitivity

Programmable sensitivity of each sensor can be selected at the control panel for different levels of smoke obscuration (shown directly in percent) or for specific heat detection levels. To evaluate whether the sensitivity should be revised, the peak value is stored in memory and can be easily read (or downloaded as a report) and compared to the alarm threshold directly in percent.

### CO sensor bases

CO sensor bases combine an electrolytic CO sensing module with a TrueAlarm analog sensor to provide a single multiple sensing assembly using one system address. The CO sensor can be enabled/disabled, and can be used in LED/Switch modes and custom control. Refer to *S4098-0052* for more details.

### TrueAlarm heat sensors

TrueAlarm heat sensors can be selected for fixed temperature detection, with or without rate-of-rise detection. Utility temperature sensing is also available, typically to provide freeze warnings or alert to HVAC system problems. Readings can be selected as either Fahrenheit or Celsius.

### TrueSense Early Fire Detection

Multi-sensor 4098-9754 provides photoelectric and heat sensor data using a single 40070ES IDNet+ address. The panel evaluates smoke activity, heat activity, and their combination, to provide TrueSense early detection. For more details on this operation, refer to data sheet *S4098-0024*.

### Diagnostics and Default Device Type

#### Sensor Status

TrueAlarm operation allows the control panel to automatically indicate when a sensor is almost dirty, dirty, and excessively dirty. The NFPA 72 requirement for a test of the sensitivity range of the sensors is fulfilled by the ability of TrueAlarm operation to maintain the sensitivity level of each sensor. CO Sensors track their 10 year active life status providing indicators to assist with service planning. Indicators occur at: 1 year, 6 months, and end of life.

#### Modular TrueAlarm sensors

TrueAlarm sensors use the same base and different sensor types (smoke or heat sensor) and can be easily interchanged to meet specific location requirements. This allows intentional sensor substitution during building construction when conditions are temporarily dusty. Instead of covering smoke sensors (causing them to be disabled), heat sensors may be installed without reprogramming the control panel. The control panel will indicate an incorrect sensor type, but the heat sensor will operate at a default sensitivity to provide heat detection for building protection at that location.

### IDNet+ Addressable Channel Capacity

The 4007ES Hybrid provides an isolated output IDNet+ signaling line circuit (SLC) that supports up to 250 addressable monitor and control points intermixed on the same pair of wires. (250 total requires two 4007-9803 IDNet+ Loop Expansion Modules.)

Table 1: IDNet+ SLC Wiring Specifications

Specification	Rating
<b>Maximum Distance from Control Panel per Device Load</b>	0 to 125 4000 ft (1219 m); 50 ohms 126-250 2500 feet (762 m); 35 ohms
<b>Total Wire Length Allowed With "T" Taps for Class B Wiring</b>	Up to 12,500 ft (3.8 km); 0.60 µF
<b>Maximum Capacitance Between IDNet+ Channels</b>	1 µF
<b>Loading per device</b>	0.8 mA supv., 1 mA alarm; 2 mA per activated device LED
<b>Wire Type and Connections</b>	Shielded or unshielded, twisted or untwisted wire*
<b>Connections</b>	Terminal blocks for 18 to 12 AWG
Compatibility includes: IDNet communicating devices and TrueAlarm sensors including QuickConnect and QuickConnect2 sensors; see data sheet <i>S4090-0011</i> for additional reference.	
<b>Note:</b> * Some applications may require shielded wiring. Review your system with your local Simplex product supplier.	



## Power Supply Output and Zone/Relay Module Details

### Power supply output details

- RUI Communications controls up to 10 remote devices at up to 2500 ft (762 m) for single run, or 10,000 ft (3048 m) total if wiring is Class B and T-tapped; selectable as Class B or Class A
- Compatible RUI remote equipment includes: 4606-9202 and 4606-9205 Color Touchscreen Annunciators (up to 6 total), 4100 Series 24 I/O and LED/Switch modules, 4602 Series LED/Switch and I/O Annunciator modules, including 4602-9101 Status Command Units (SCU), and 4602-9102 Remote Command Units (RCU)
- IDNet+ SLC Output provides electrically isolated Class B or Class A communication; standard capacity is up to 100 addressable points with expansion for up to 250 points using up to two 4007-9803 IDNet+ Loop Expansion Modules (as described in IDNet+ Addressable Channel Capacity)
- 6 A Output Rating. This includes current for: special application notification appliances; IDNet devices; module currents; and auxiliary output current (battery charging, CPU, and power supply current does not subtract from the 6 A); when NACs are controlling Regulated 24 DC Appliances, total NAC current available is 3 A
- Four on-board Class B/Class A NACs, rated 3 A each for Special Application appliances; selectable for SmartSync horn and strobe control, or strobe synchronization; rated 2 A each for Regulated 24 DC appliances
- NAC end-of-line (EOL) resistor values are selectable as: 10 k $\Omega$ , 3.9 k $\Omega$ , 4.7 k $\Omega$ , 5.1 k $\Omega$ , 5.6 k $\Omega$ , or 15 k $\Omega$
- Battery Charger is dual rate, temperature compensated, and charges up to 18 Ah sealed lead-acid batteries mounted in the battery compartment, and charges up to 33 Ah batteries mounted in an external cabinet
- Battery and Charger Monitoring includes battery charger status and low or depleted battery conditions; status information provided to the master controller includes analog values for: battery voltage, charger voltage and current, actual system voltage and current, and NAC current
- Low Battery Voltage Cutout is selectable when required (required for ULC listing applications)
- 2 A Auxiliary Output (AUX/SNAC) can be selected either as resettable auxiliary power of 2 A @ 24 VDC, or selected to be a simple NAC (SNAC) for sounder base power, 4-wire detector power, or door holder power

### Zone/relay module details

- Select as IDC or Relay; configure up to 8, Class B IDCs, or up to 4, Class A IDCs; or up to 8, Relay outputs rated 2 A resistive @ 30 VDC (N.O. or N.C.); or combinations of IDCs and Relays; each zone is separately configurable as an IDC or Relay output
- IDC Support. Each IDC supports up to 30, two-wire devices
- IDC EOL resistor values are selectable as: 3.3 k $\Omega$ , 2 k $\Omega$ , 2.2 k $\Omega$ , 3.4 k $\Omega$ , 3.9 k $\Omega$ , 4.7 k $\Omega$ , 5.1 k $\Omega$ , 5.6 k $\Omega$ , 6.34/6.8 k $\Omega$ , and 3.6 k $\Omega$  + 1.1 k $\Omega$ ; see instructions for more details



4007ES Mounting and Module Location Reference

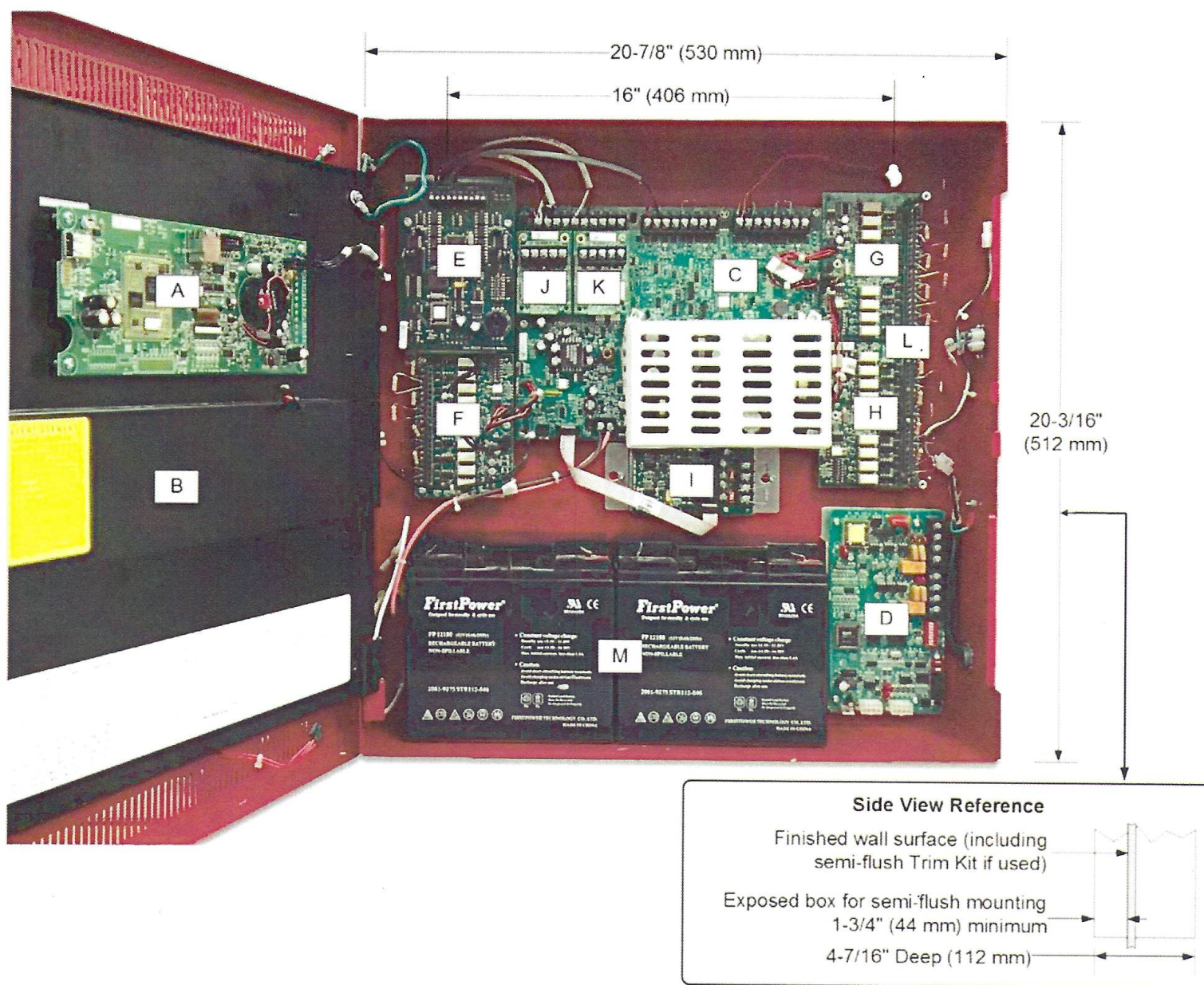


Table 2: Module locations

Key	Description
A	CPU and User Interface assembly.
B	Location for optional 4007-9805 LED Module.
C	Power Supply Assembly. 4007-9806 SDACT location.
D	<b>Note:</b> The SDACT includes a 650-1838 flat mounting bracket (available separately). Some pre-existing systems with an angled SDACT bracket will need to be replaced with the flat mounting bracket when a Network Interface Card is installed.
E	Location for 4007-9801 Zone/Relay Module, 4007-9812 Dual RS-232 Interface, or (as shown) 4007-9802 25 V Regulator Module
F	Primary location for 4007-9801 Zone/Relay Module, or 4190-6106 TrueInsight Remote Service Gateway.
G	Location for additional 4007-9801 Zone/Relay Module.
H	Identical to Block G above.
I	4007-9807 or 4007-9808 City Circuit Module, or 4007-9809 Relay Module.
J	4007-9803 IDNet+ Loop Expansion Modules, maximum of two (two are shown).
K	Identical to block J above.
L	Block L is an additional block that sits on spacers above Block G and H. The 4007-9810 or 4007-9817 NIC can be mounted in block L with or without modules mounted below it in blocks G and H. When fiber media cards are used and an SDACT is present, the SDACT requires a 650-1838 flat mounting bracket (ordered separately).
M	Battery location for up to 18 Ah batteries. Note: No conduit entry or wiring in this area, 14-7/8\" (378 mm) wide.

**Note:** A system ground must be provided for Earth Detection and transient protection devices. This connection shall be made to an approved, dedicated Earth connection per NFPA 70, Article 250, and NFPA 780.



**Product Selection**

**Table 3: 4007ES Hybrid Product Selection**

Model	Color	Description	Supv.	Alarm
4007-9101	Red	4007ES Hybrid with 4 conventional NACs, 6 A output power supply/battery charger and 1 IDNet+ SLC for up to 100 addressable points	145 mA	190 mA
4007-9101BA				
4007-9102	Platinum			
4007-9102BA				
Both models above include		(1) 4007-9801 Zone/Relay Card	83 mA	351 mA

**Note:**

1. Models with (BA) are available assembled in the USA by adding suffix "BA".
2. The current draw for the 4007ES Hybrid Panel (without included modules) does not subtract from the 6 A of power available for optional modules and external loads. For power supply loading calculations include all modules plus all external loads and exclude the 4007ES Hybrid Panel current. For battery standby calculations include all modules, all external loads, and the base 4007ES Hybrid Panel current.

**Module and Accessories Selection Information**

**Table 4: Factory Programming Options**

Model	Description
4007-8810	Factory Programming (select)
4007-0831	Custom Labels and Programming (requires 4007-8810)

**Table 5: Field Installed Optional Modules**

Model	Description	Supv.	Alarm	
4007-9801	Eight Point Zone/Relay Module, each point is selectable as an IDC input or Relay output, Class A IDCs require 2 points (one out and one return); one module is included as standard, select up to 3 additional; 83 mA max current shown is for 8 Class B IDCs with 4 in alarm, detector current is added separately	83 mA max	351 mA max	
4007-9802	25 VDC Regulator Module; 2 A maximum output; use to power Zone/Relay modules connected to initiating devices requiring nominal 25 VDC voltage. Refer to technical publication <i>579-832 2-Wire Detector Compatibility Chart</i> for application details.	with 1 module	190 mA	445 mA
		with 2 modules	290 mA	801 mA
		with 3 modules	390 mA	1156 mA
4007-9803	IDNet+ Loop Expansion Module; provides an additional isolated loop with short circuit isolation to the existing IDNet+ channel, also provides an additional 75 addressable points to the IDNet+ channel capacity, maximum of two	NA	NA	
4007-9805	Panel Mounted 48 LED Status Annunciator Module; provides 24 Yellow LEDs, 20 Red LEDs, no LEDs on and 4 Red/Green LEDs that are programmable for up to 24 IDC zones of alarm and trouble with LEDs on	10 mA 1.75 mA per LED, 105 mA max	10 mA	
4007-9806	SDACT Module for Point or Event Reporting Order 2080-9047 connection cables as required (see cable details under accessories)	30 mA	40 mA	
4007-9807	City Circuit Module with Disconnect Switch	20 mA	36 mA	
4007-9808	City Circuit Module without Disconnect Switch	20 mA	36 mA	
4007-9809	Relay Module; relays for Alarm, Supervisory, and Trouble; rated 2 A resistive @ 32 VDC	15 mA	37 mA	
4007-9812	Dual RS-232 Interface Module; Compatible with Simplex remote printer, PC annunciator or third party interface (two ports/connections maximum)	60 mA	60 mA	

**Table 6: Field Installed Optional Network Modules**

Model	Description	Supv.	Alarm
4190-8001*	TrueInsight remote service gateway module and programming selection		
4190-6106 *	TrueInsight remote service gateway module installation kit; includes module and harness; configured for dynamic IP address operation unless ordered with 4190-4016	62 mA	73 mA
4190-4016 *	TrueInsight remote service gateway module for fixed IP Addressing; optional, select if application will use fixed IP address		

**Note:** \* Refer to data sheet S4100-0063 for additional TrueInsight service gateway details



## 4007ES Hybrid, Fire Detection and Control Panel with Addressable and/or Conventional Initiation

### Network Interface and Network Media Card Product Selection

4007ES fire alarm control units are compatible with Simplex ES Net network or 4120 network fire alarm products.

- Refer to datasheet S4100-0076 for additional information on compatible ES Net fire alarm products.
- Refer to datasheet S4100-0056 for additional information on compatible 4120 network fire alarm products.
- Refer to datasheet S4100-0061 for additional information on the Building Network Interface Card.

**Table 7: Batteries**

Model	Capacity	Battery Mounting Details	
2081-9272	6.2 Ah	12 V Batteries for cabinet mounting; select one battery model per system standby requirements; order quantity of two; to be wired in series for 24 VDC	
2081-9274	10 Ah		
2081-9288	12.7 Ah		
2081-9275	18 Ah		
2081-9287	25 Ah	For remote mount in Battery Box 4009-9801	Batteries for remote mounting; see battery cabinet details below
2081-9271	33 Ah	For remote mount in Battery Box 4009-9802	

**Table 8: Battery accessories**

Model	Color	Capacity	Dimensions	Description
4009-9801	Beige	For up to 25 Ah batteries	16 1/4" W x 13 1/2" H x 5 3/4" D (413 mm x 343 mm x 146 mm)	External battery cabinet without charger, with locking solid door and battery harness; for close-nippled mounting to fire alarm control panel cabinet
4009-9802	Beige	For up to 33 Ah batteries	25 3/4" W x 20 3/4" H x 4 1/8" D (654 mm x 527 mm x 105 mm)	

**Table 9: Accessories**

Model	Description
2080-9047	DACT cable, 14 ft (4.3 m) long, RJ45 plug one end, spade lugs on the other; order one per phone line connection required
2975-9812	Red semi-flush box trim; 1 7/16" (37 mm) wide, four corners and trim pieces for top, bottom, and sides
2975-9813	Platinum semi-flush box trim; 1 7/16" (37 mm) wide, four corners and trim pieces for top, bottom, and sides
2081-9031	Platinum semi-flush box trim; 1 7/16" (37 mm) wide, four corners and trim pieces for top, bottom, and sides
4081-9002	3.3 kΩ, 1 W end-of-line resistor for Class B non-addressable initiating zones
4081-9018	10 kΩ, 1 W end-of-line resistor harness for non-addressable NACs

### General Specifications

**Table 10: General specifications**

Specification	Rating	
<b>Input Power</b>	120 VAC Input	2 A maximum @ 102 to 132 VAC, 50/60 Hz
	240 VAC Input	1 A maximum @ 204 to 264 VAC, 50/60 Hz
<b>4007ES Hybrid Power Supply Output Ratings</b>	Power Supply Output Rating	Including module currents and auxiliary power outputs; 6 A total
	NAC Ratings	3 A each for Special Application Appliances 2 A each for Regulated 24 DC Appliances
	Auxiliary Power Tap	2 A maximum, 24 VDC nominal (19.5 to 31.1 VDC)
<b>Special Application Non-Addressable Appliances</b>	Simplex horns, strobes, and combination horn/strobes and speaker/strobes (contact your Simplex product representative for compatible appliances)	
<b>Regulated 24 DC Non-Addressable Appliances</b>	Power for other UL listed appliances; use associated external synchronization modules where required	
<b>Battery Charger Ratings (sealed lead-acid batteries)</b>	Battery capacity range	UL and ULC listed for battery charging of 6.2 Ah up to 33 Ah (batteries larger than 18 Ah require a remote battery cabinet)
	Charger characteristics and performance	Temperature compensated, dual rate, recharges depleted batteries within 48 hours per UL Standard 864; to 70% capacity in 12 hours per ULC Standard S527

**Table 11: Custom background and environmental details**

Item	Description	
<b>Custom Background Display Details</b>	Supported file types: JPG, BMP, GIF, and PNG	
	Recommended image type is JPG, recommended image size is 480 x 240, and the file size limit is 100 kb	
<b>Environmental</b>	Operating Temperature	32° to 120°F (0° to 49° C)
	Operating Humidity	Up to 93% RH, non-condensing @ 90° F (32° C) maximum



**Additional 4007ES and Network Product Reference**

**Table 12: Additional 4007ES and network product reference**

<b>Subject</b>	<b>Datasheet</b>
Serial DACT (SDACT) for 4100ES, 4010ES, 4007ES	S2080-0009
Seismic Battery Brackets Reference	S2081-0019
4003EC Voice Control Unit	S4003-0002
4007ES Panels with Addressable Notification	S4007-0002
4007ES Extinguishing Release Applications	S4007-0003
4009 IDNet NAC Extender	S4009-0002
4009 IDNAC Repeater	S4009-0004
External 110 Ah Battery Charger for 4100ES, 4010ES	S4081-0002
Graphic I/O Modules for 4100ES, 4010ES, 4007ES	S4100-0005
Interface to VESDA Air Aspiration Detection Systems	S4100-0026
NDU with SPS Power Supplies for 4120 Network	S4100-0036
InfoAlarm Command Center with SPS Power Supplies	S4100-0045
Multiple Signal Fiber Optic Modems for 4120 Networks	S4100-0049
BACpac Ethernet Module	S4100-0051
4120 Network Products and Specifications	S4100-0056
Building Network Interface Card (BNIC)	S4100-0061
SafeLINC Internet Interface	S4100-0062
TrueInsight Remote Gateway	S4100-0063
ES Net Network Products and Specifications	S4100-0076
NDU with SPS Power Supplies for ES Net	S4100-0077
InfoAlarm Command Center with EPS Power Supplies	S4100-0101
NDU with EPS Power Supplies for 4120 Network	S4100-0102
NDU with EPS Power Supplies for ES Net	S4100-0104
120 VAC Remote Printer	S4190-0011
PC Annunciator	S4190-0013
TrueSite Workstation	S4190-0016
TrueSite Incident Commander	S4190-0020
SCU/RCU Annunciators	S4602-0001
4606 Series Color Touchscreen LCD Annunciators	S4606-0003

4007ES Hybrid Additional Reference

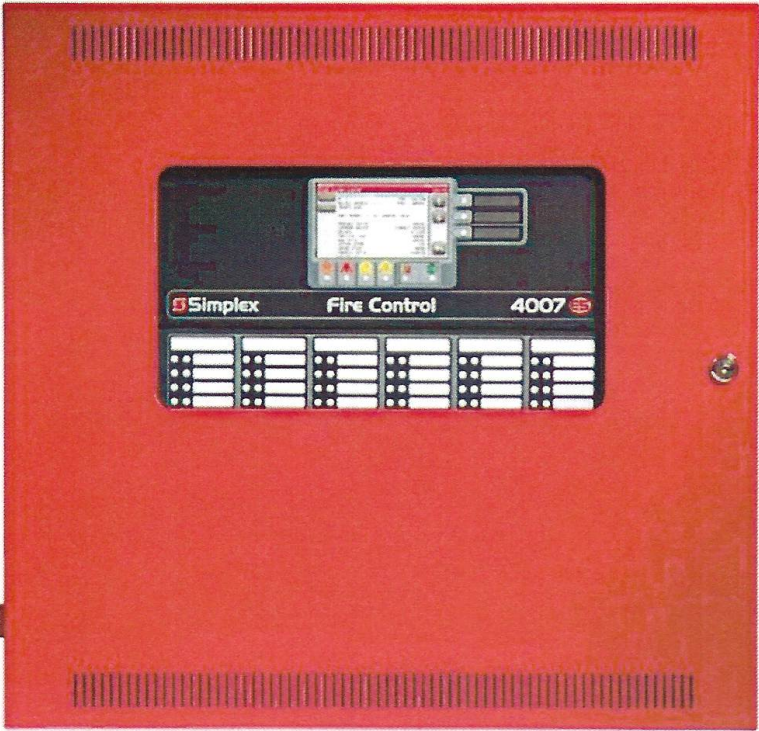


Figure 5: 4007ES Hybrid with optional 48 LED Annunciator Module (4007-9805)



Figure 6: 4606-9205 (Platinum) Color LCD Touchscreen Remote Annunciator



Figure 7: 4606-9202 (Red) Color LCD Touchscreen Remote Annunciator





## Mitchell Patsy

---

**From:** Mark Hofmann <mhofmann@soltekpacific.com>  
**Sent:** Monday, February 3, 2020 9:08 AM  
**To:** David Brewer; Ken Breuer  
**Cc:** Nick McAvene; Mason Rogan; Jim Chase  
**Subject:** RE: SDUSD HVAC Design Build - La Jolla ES - Switchgear Layout

Dave,

The layouts are similar, but the switchgear must move to the west to avoid the slope to the east.

We all know, there is no fencing requirement for the transformer of switchgear, so why spend the District's money.

Additionally, please make sure that Mark M. is looking at the WSM plans relative to the current HVAC design (C-401 a good start) to insure he is considering a reroute of the electrical service to the existing library is considered. That will become our scope of work. I would also request that you provide spot elevations for the depth of conduit along its new route as the current grades will be substantially altered.

I assume you are looking at a CMU wall at the switchgear pad. Please provide details for slab, footings and wall, including a waterproofing specification.

Following our on-site meeting of last week, we were expecting the load information from Mark M. so we can get it to SDG&E for transformer sizing. There is a limited window of opportunity with SDG&E to allow for the switch over during the Spring break, and the load information IS the critical missing piece of the pie. So hopefully this was coordinated and accomplished by Ken following our meeting. Please advise.

### Mark Hofmann

Sr. Project Manager  
[mhofmann@soltekpacific.com](mailto:mhofmann@soltekpacific.com)

**From:** David Brewer <dbrewer@studiowc.net>  
**Sent:** Sunday, February 2, 2020 12:48 PM  
**To:** Mitchell Patsy <pmitchell@sandi.net>; Radik Musin <rmusin@sandi.net>; Ken Breuer <kbreuer@studiowc.net>; Mark Hofmann <mhofmann@soltekpacific.com>  
**Cc:** Nick McAvene <nmcavene@soltekpacific.com>; Mason Rogan <mrogan@soltekpacific.com>; Jim Chase <jchase@studiowc.net>  
**Subject:** Re: SDUSD HVAC Design Build - La Jolla ES - Switchgear Layout

Mark,

This layout is basically the same approach as our prelim., just pushes the slab forward to the existing ramp curb & reduces spacing to transformer by a foot. These are fine tuning adjustments, but consistent with or proposed layout. This would preclude putting the temp fence around the gear (since the slab is now against the curb).

The raised curb is the same as what we had anticipated & slab elev. is same as well. Note that this slab will end up approx. 18" higher than the WSM walkway finish elevations, which is same as discussed in our meeting & will need to be dealt with in the WSM & should be understood by SDG&E. This will be a large step up into the WSM enclosure. Mark M is coordinating with SDG&E re: loads, etc. We will continue to move forward in this direction, since we seem to be in agreement on the approach. Thanks

Dave

David Brewer, AIA  
Senior Vice President  
StudioWC  
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Encinitas, CA 92024  
Ph: (760) 753-6800  
Cell: 760-805-7009  
[dbrewer@studiowc.net](mailto:dbrewer@studiowc.net)

---

**From:** Mark Hofmann <[mhofmann@soltekpacific.com](mailto:mhofmann@soltekpacific.com)>  
**Sent:** Sunday, February 2, 2020 11:05:24 AM  
**To:** Mitchell Patsy <[pmitchell@sandi.net](mailto:pmitchell@sandi.net)>; Radik Musin <[rmusin@sandi.net](mailto:rmusin@sandi.net)>; David Brewer <[dbrewer@studiowc.net](mailto:dbrewer@studiowc.net)>; Ken Breuer <[kbreuer@studiowc.net](mailto:kbreuer@studiowc.net)>  
**Cc:** Nick McAvene <[nmcavene@soltekpacific.com](mailto:nmcavene@soltekpacific.com)>; Mason Rogan <[mrogan@soltekpacific.com](mailto:mrogan@soltekpacific.com)>  
**Subject:** SDUSD HVAC Design Build - La Jolla ES - Switchgear Layout

The attached study seems to work with the existing and proposed grades, access requirements and avoids the top of slope. My apologies for the crappy ketch, but the math seems to work.

Please review and comment.

**Mark Hofmann**  
Sr. Project Manager  
[mhofmann@soltekpacific.com](mailto:mhofmann@soltekpacific.com)



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**From:** Mark Hofmann <[mhofmann@soltekpacific.com](mailto:mhofmann@soltekpacific.com)>  
**Sent:** Sunday, February 2, 2020, 11:05 AM  
**To:** Mitchell Patsy; Radik Musin; David Brewer; Ken Breuer  
**Cc:** Nick McAvene; Mason Rogan  
**Subject:** SDUSD HVAC Design Build - La Jolla ES - Switchgear Layout

The attached study seems to work with the existing and proposed grades, access requirements and avoids the top of slope. My apologies for the crappy ketch, but the math seems to work.

Please review and comment.



Mark Hofmann  
Sr. Project Manager  
[mhofmann@soltekpacific.com](mailto:mhofmann@soltekpacific.com)



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### NTP Request (Add line to PO)

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#### Upper Form

##### Record Information

Record Number: NTPRA-000007	Creator: Robert Daniels
Project Name: Jefferson ES HVAC Phase 2	Creation Date: 02/03/2020 12:11 PM (UTC-8)
Project Number: 91550071.1	Status: Approved
	Record Last Update Date: 06/14/2021 09:32 AM (UTC-8)

##### NTP Information

Title: D-B Package (D) Jefferson-COR-#79
NTP Number: NTP 24 Jefferson ES
Estimated Task Order Amount: \$2,315.46
Line Item Total Amount: \$2,315.46

##### NTP Processing

Contract Specialist: Mayra Flores
FPC Director / PPO: Don Webb
PPO Lead:

##### Contract Details

Reference SOV: PO-000007	
Peoplesoft PO Number: 0000351899	Vendor Name: CW Driver LLC
Reference Contract: CON-000263	
Contract Number: CZ19-0861	Contract Title: D/B Construction of HVAC at Multiple Sites PKG D

##### Task Order Description

Description: S.D.U.S.D. H.V.A.C. Design Build Package (D) Jefferson ES. COR #79 - Upgrade Fire Alarm Panel -\$2315.46.
Justification: Per the RFI response to (NET) upgrade the fire alarm panel.
Have you attached a proposal?: Yes



PPO Request for Service

Campus/Tenant Name:  
 Is this a result of a Request for Service?:  
 Linked FPC Non-Site Discretionary RS:  
 Linked FPC Site Discretionary RS:

Job Order Contract (JOC) Required Fields

To activate these fields, verify a JOC Contract has been selected above.  
 Is a completed Job Order Cost Evaluation PDF attached and does it demonstrate the contractor's proposed fee for this project is reasonable and cost effective?:  
 Is contractor's complete list of employees and signed background check certification statement attached?:  
 Is contractor's complete list of subcontractors and signed certification statement attached?:  
 Is contractor's proposal attached and is it complete and accurate?:

Task Order Location

Proposed Task Order Start 06/16/2021 Date:	Final Task Order Start 06/16/2021 Date:
Proposed Task Order End 06/30/2021 Date:	Final Task Order End 06/30/2021 Date:

Project Costing Data

Business Unit: SDUSD	Peoplesoft Activity ID: (H) Construction
Project Name: Jefferson ES HVAC Phase 2	Project Costing Resource: SVCS
Project ID: 91550071.1	

Budget Analyst Fields

Budget Transfer Journal: 465932  
 Budget Journal: 465934

Integration Rejection Comments

If a record is rejected in PeopleSoft, comments will be displayed here.  
 Rejection Comments:

Administrative Revision

Revision Description:
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Integrated Commitment

Integrated Commitment?: Non-Integrated
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 **Task Details**

**Record has been closed.**

Workflow Progress

Step Name	Assignee	Company	Status	Action	Completion Date
Creation (CM)	Robert Daniels	SDUSD	Completed	Request NTP	02/03/2020 12:11 PM
01 Contracts Specialist	Mayra Flores	SDUSD	Closed	Send to CSE	02/03/2020 01:24 PM
02 CSE	Wazira Salem	SDUSD	Closed	Send to PM	02/03/2020 01:48 PM
03 PM	Rich Kessler	SDUSD	Closed	Send to CM Director	02/03/2020 01:56 PM
04 CM Director	Don Webb	SDUSD	Closed	Send for Funding	02/04/2020 04:20 PM
05 Lead CSE	Greg McFarlane	SDUSD	Closed	Return to Creator for Revision	02/05/2020 07:48 AM
02x Creator Revision	Robert Daniels	SDUSD	Completed	Return to Contract Specialist	06/10/2021 11:40 AM
01 Contracts Specialist	Mayra Flores	SDUSD	Completed	Send to CSE	06/10/2021 03:13 PM
02 CSE	Wazira Salem	SDUSD	Completed	Send to PM	06/11/2021 06:49 AM
03 PM	Rich Kessler	SDUSD	Completed	Send to CM Director	06/11/2021 08:21 AM
04 CM Director	Don Webb	SDUSD	Completed	Send for Funding	06/11/2021 11:15 AM
05 Lead CSE	Greg McFarlane	SDUSD	Completed	Send to Budget Analyst	06/11/2021 12:51 PM
06 Budget Analyst	Linda Bravo	SDUSD	Completed	Send to Contract Specialist	06/11/2021 02:23 PM
07 Contract Specialist	Mayra Flores	SDUSD	Completed	Send to Contracts Supervisor	06/14/2021 08:36 AM
08 Contract Supervisor	Graham Champion	SDUSD	Completed	Approve	06/14/2021 08:45 AM
09 CS Pplsoft	Mayra Flores	SDUSD	Completed	Close NTP Revision	06/14/2021 09:32 AM



 **Line Items**

1 Item(s)

No.	Budget String	Revise Existing Line?	SOV Line	Cost Code	Code Name	Short Description	Amount	Line Type (for IDIQ)	Bond Series
001	9155-90402-00- 6200-8500-0000- 21400-8611	No	0	9155-Z.FPC- 6200-8611- CONST	Z.FPC Construction NHVAC	NTP 24 Jefferson ES COR# 79	\$2,315.46	Allowance	21400-M LT

Total Amount \$2,315.46

**Attachments (1)**

**Linked Records (0)**

**Linked Mail (0)**