

Marin Emergency Radio Authority Upgrade Project
Contract #: MERA 2022-003 & 004
Cost Estimate Summary
Wolfback Closeout Change Orders

Company:	<u>Fidato</u>	CO No.:	<u>Rev 4.2.24</u>
Date:	<u>2-Apr-24</u>	PCO No.:	<u></u>
Project Scope:	<u>Electrical and Equipment Install</u>	Bulletin / RFI No.:	<u></u>

Description: Wolfback Closeout Change Orders

Total Direct Labor		\$	6,717 (From Page 2)
Total Materials (All applicable taxes included)		\$	7,197 (From Page 3)
Total Equipment (All applicable taxes and rental costs included)		\$	- (From Page 4)
Estimate of Direct Cost Subtotal		\$	13,914
Fee	Direct Labor Fee	20.0% \$	1,343
	Material & Equipment Fee	15.0% \$	1,080
Fee Subtotal		\$	2,423
Subcontractors		\$	8,141.39 (From Page 5)
	Subcontractor's Markup	15% \$	1,221.21
Subcontractor Subtotal		\$	9,362.60
Insurance and Bonds			
	Insurance	Included	
	Payment and Performance Bonds	\$	257.00
Insurance and Bonds Subtotal		\$	257.00
Total Cost of Change			25,957

Time Extension Requested (working days) See Extension Request

Marin Emergency Radio Authority Upgrade Project
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Labor Summary
Wolfback Closeout Change Orders

Company:	Fidato	CO No.:	Rev 4.2.24
Date:	2-Apr-24	PCO No.:	
Project Scope:	Electrical and Equipment Install	Bulletin / RFI No.:	

Description: Wolfback Closeout Change Orders

Material List						
Hours	Labor Classification	S.T. Rate	Swing Shift Rate	O.T. Rate	D.T. Rate	Total Cost
27.5	Foreman	\$ 149.70				\$ 4,117
20.0	Fidato Supervision	\$ 130.00				\$ 2,600
						\$ 6,717

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Material List
Wolfback Closeout Change Orders

Description	Quantity	Unit Cost	Unit	Total Material	Labor	Unit		Total Hours
Existing Hazard investigation and mitigation (lead and asbestos)								
Asbestos Survey	1		E	\$ -	4.000	E	FS	4.0
Asbestos Abatement - 2 days	1		E	\$ -	4.000	E	FS	4.0
			E			E		
			E			E		
Vinyl Floor Installation - Existing Flooring Linoleum - removed with asbestos abatement - see subcontractor								
Fidato Supervision	2		E	\$ -	4.000	E	FS	8.0
Shelter entrance door issues - modify door to be able to swing open - see subcontractor page								
Fidato Supervision	1		E	\$ -	4.000	E	FS	4.0
			E			E		
			E			E		
Change Meter Main - meter main + conduit + wire								
Meter Main - demo and install	1	\$ 1,995.00	E	\$ 1,995.00	8.000	E	F	8.0
Conduit - 2" rigid and fittings	1	\$ 140.00	E	\$ 140.00	8.000	E	F	8.0
Pull New Wire	1	\$ 320.00	E	\$ 320.00	3.000	E	F	3.0
			E			E		
Surge Protection Mods								
Transtector SPD, conduit, wire, terminations	2	\$ 3,010.00	E	\$ 6,020.00	2.500	E	F	5.0
Panel Modification Cost Reduction	-1	\$ 3,200.00	E	\$ (3,200.00)		E		
60A 2P Exterior Breaker, conduit, wire, terminations	1	\$ 1,283.00	E	\$ 1,283.00	3.500	E	F	3.5
			E			E		
			E			E		
			E			E		
			E			E		
			E			E		
			E			E		
			E			E		
			E			E		
			E			E		
			E			E		
			E			E		

Subtotal Material Cost \$ 6,558.00 Subtotal Install Hrs. 47.50
Material Tax 9.75% \$ 639.41

Subtotal Labor Hrs. 47.50

Total Material Cost \$ 7,197.41

Marin Emergency Radio Authority Upgrade Project
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Subcontractors/Vendors Summary - Wolfback Closeout Change Orders


Company: _____
Date: 2-Apr-24 **PCO No.:** _____
Project Scope: Electrical and Equipment Install **Bulletin / RFI No.:** _____

Description: Wolfback Closeout Change Orders

Contractor	Description	Total Cost
CVE	Asbestos Abatement - Wolfback	\$ 4,123.00
NorBay Consulting	Asbestos Survey - 25% of Total Cost applied to each site	\$ 916.00
Sonoma County Woodsmith	Vinyl Floor Installation, Fix Door	\$ 3,102.39

\$ 8,141.39

Shopping Cart

Product(s)	Qty	Price	Total
Delete  AC Surge Protector SPD APEX IMAX Panel 120/240 Vac Split-Phase SASD, MOV 160 kA, UL 1449 4th Ed. Type 2 Metal Enclosure SKU: 1101-808-M-1	<input type="text" value="1"/> Update	\$3,010.00	\$3,010.00

Sub-Total: \$3,010.00

Shipping: Calculated during checkout

Tax: \$248.33

Total: Calculated during checkout

Order Notes



GRID = 1 Inch

CMBEB200BTS

Cutler Hammer, Div of Eaton Circuit Breakers



Item Number [CMBEB200BTS](#)

MFG Item Number [CMBEB200BTS](#)

\$1,995.75

1

[VIEW CART](#)

AVAILABILITY

Call to verify lead time.

[View Alternative Products](#)

800-575-5562



OVERVIEW

Circuit Breakers, Series

Item # **CMBEB200BTS** MTR-BRKR, EUSERC, CH, 200A, MB W/O

Series Information

DOCUMENTS

Popular Products from Cutler Hammer, Div of Eaton

PRODUCT DETAILS

SPECIFICATIONS

Ships Factory Direct	No
Manufacturer Part Number	CMBEB200BTS
Item Number	CMBEB200BTS
Manufacturer	Cutler Hammer, Div of Eaton
Family Series	Cutler Hammer, Div of Eaton Circuit Breakers
Net Weight	37 lbs
Gross Weight	37 lbs



EATON

CATALOG NO. SERIES A RING TYPE
 SERIE: A TIPO ARRILLO DE RETENCIÓN

CMBEB150BTS SURFACE SOBREPONER

CMBEB150BTF FLUSH EMPOTRAR

CMBEB200BTS SURFACE SOBREPONER

CMBEB200BTF FLUSH EMPOTRAR

CMBE200BTF FLUSH EMPOTRAR
 INSTALADO EN DISYUNTOR PRINCIPAL

200AMPS MAX.

(SEE MAIN CIRCUIT BREAKER RATING)

MÁX. 200 AMPES

(VER CAPACIDAD DISYUNTOR PRINCIPAL)

120/240 VAC 1 PHASE-3W

V-120/240, 60 HZ MONOFÁSICA-3 HILOS

208Y/120 VAC 1 PHASE-3W

(FROM 3 PHASE-4W NETWORK)

V-208Y/120, 60 HZ MONOFÁSICA-3 HILOS

(DE RED TRIFÁSICA 4 HILOS)

TYPE 3R ENCLOSURE-RAINPROOF

GABINETE TIPO 3R - A PRUEBA DE LLUVIA

SHORT CIRCUIT RATING WITH MAIN BREAKER:
 (RMS SYM AMPES, 240 VAC MAX.)

35,000 AMPES WITH TYPE

CSH MAIN BREAKER

22,000 AMPES WITH TYPE

CSR MAIN BREAKER

CAPACIDAD DE CORTOCIRCUITO CON DISYUNTOR PRINCIPAL:

(A SIM. EFECTIVOS, MÁX. V-240)

35,000 A CON DISYUNTOR PRINCIPAL TIPO CSH.

22,000 A CON DISYUNTOR PRINCIPAL TIPO CSR.

ADDITIONAL OR REPLACEMENT BREAKERS SHALL BE OF THE SAME MANUFACTURER AND TYPE AND SHALL HAVE AN INTERRUPTING RATING EQUAL TO OR GREATER THAN THE INTERRUPTING RATING OF ANY CIRCUIT BREAKER INSTALLED.

LOS DISYUNTORES ADICIONALES Ó DE REPUESTO DEBERÁN SER DE LA MISMA MARCA Y TIPO Y TENER UNA CAPACIDAD DE INTERRUPTOR IGUAL Ó SUPERIOR A LA DE CUALQUIER DISYUNTOR INSTALADO.

WATT HOUR METER NOT INCLUDED IN SHORT CIRCUIT RATING.

EL VATIONORIMETRO NO ESTÁ INCLUIDO EN LA CAPACIDAD DE CORTOCIRCUITO.

METER SOCKET RATED 170 AMPS CONTINUOUS

MÓDULO DE MEDICIÓN: 170 A EN RÉGIMEN PERMANENTE.

TORQUE CIRCUIT BREAKER LUGS TO THE VALUES SPECIFIED ON CIRCUIT BREAKERS.

AJUSTAR LOS BORNES DEL DISYUNTOR CON UN PAR DE FUERZAS SEGÚN LOS VALORES ESPECIFICADOS SOBRE LOS DISYUNTORES.

BREAKER TERMINALS SUITABLE FOR 14-2/0 AWG WIRE WHEN SO MARKED. REFER TO MARKINGS ON BREAKERS.

LOS BORNES DE DISYUNTOR SON APTOS PARA CABLE CUAL CUANDO ESTÁ ASÍ INDICADO. VER LAS MARCAS ESTAMPADAS EN LOS DISYUNTORES.

SUITABLE ONLY FOR USE AS SERVICE EQUIPMENT

APTO ÚNICAMENTE PARA USARSE COMO EQUIPO DE SERVICIO

IF 8TH JAW IS REQUIRED ORDER CAT NO. 1MM5JK0P

SUITABLE FOR UNDERGROUND, CHECK LOCAL JURISDICTION FOR OVERHEAD SERVICE ENTRY

APTO PARA ENTRADAS DE SERVICIO SUBTERRÁNEAS VERIFIQUE LA JURISDICCIÓN LOCAL AÉREAS.

RAINPROOF FITTINGS PARA LOS ACCESORIOS

CATALOG NO. NUM. DE CATALOGO

3/4" HUB DB078H11

1-1/4" HUB DB100H2

1-1/2" HUB DB128H2

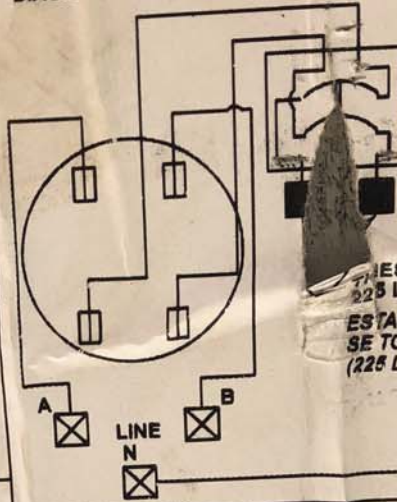
2" HUB DB180H2

2 1/2" HUB DB200H1

3" HUB DB200H2

REQUIRES ADAPTER PLATE OR BUSHING
 REQUIERE UNA PLACA ADAPTADORA O BUSHING

TYPICAL WIRING DIAGRAM
 DIAGRAMA DE CABLEADO TÍPICO



200A MAX. SERVICE DISCONNECT
 TYPE CSR OR CSH*

MÁX 200 A DESCONECTOR DE SERVICIO TIPO CSR O CSH*

*FACTORY INSTALLED MCBK226 KIT FOR C.B. LOAD LUGS

*INSTALADO EN FABRICA NECESARIO MCBK226 PARA LOS BORNES CARGA DEL DISYUNTOR

THESE TWO POSITIONS TORQUE 225 LB-IN (25.4 N-M)

ESTAS DOS POSICIONES SE SE TORSIONAN 25.4 Nm (225 LIBRAS-PULGADAS)

BONDED NEUTRAL
 NEUTRO CONECTADA

TORQUE WIRE PRESSURE SCREW(S) AS FOLLOWS:

AJUSTAR EL O LOS TORNILLOS DE SUJECIÓN DEL CABLE CON EL SIGUIENTES PAR DE FUERZAS:

WIRE SIZE AL/CU AWG/KCMIL 80°/7E° CABLE CALIBRE AL/CU AWG/KCMIL	LB-IN (N-M)	LB-IN (N-M)
#14-10	35 (3.98)	
#8	40 (4.60)	
#6-#4	45 (5.10)	
#3-#1	60 (6.80)	
1/4-2/0	90 (9.85)	
250 MCM		250 (28.25)

WIRE RANGE
 RANGO DE CONDUCTOR

#14-2/0 AWG

#6-250 AWG

BREAKER HANDLE IN MID. POSITION INDICATES BREAKER IS TRIPPED. TO RESTORE SERVICE MOVE HANDLE TO EXTREME OFF, THEN TO ON.

LA PALANCA DEL DISYUNTOR EN LA POSICIÓN MEDIA, INDICA QUE EL DISYUNTOR SE HA DISPARADO. PARA RESTABLECER EL SERVICIO, MOVER LA PALANCA AL EXTREMO «OFF», LUEGO A «ON».

UNUSED NEUTRAL HOLES MAY BE USED FOR EQUIPMENT GROUNDING. WIRE HOLES ARE SUITABLE FOR (1) 14-4 OR UP TO (3) #10-14 WIRES. MULTIPLE WIRES IN A SINGLE HOLE MUST BE OF THE SAME SIZE AND MATERIAL.

CUALQUIERA DE LOS ORIFICIOS NEUTROS NO UTILIZADOS PUEDE HABILITARSE PARA CONECTAR EL EQUIPO A TIERRA. LOS ORIFICIOS DE CABLEADO ADMITEN UN CONDUCTOR N° 14-4 Ó HASTA TRES NÚM. 10-14. LOS DIFERENTES HILOS INSERTOS EN UN SOLO ORIFICIO DEBEN SER DEL MISMO CALIBRE Y MATERIAL.

INSTALLATION AND USE OF THIS EQUIPMENT SHOULD BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.

LA INSTALACIÓN Y EL USO DE ESTE EQUIPO DEBERÁN AJUSTARSE A TODOS LOS CÓDIGOS LOCALES Y NACIONALES APLICABLES.

TO CLOSE UNUSED OPENINGS IN COVER USE CAT. NO. CHFR

PARA CERRAR LAS ABERTURAS NO EMPLEADAS EN LA CUBIERTA, UTILIZAR EL NÚM. DE CAT. CHFR

THIS DEVICE COMPLIES WITH UL508C REQUIREMENTS

ESTE DISPOSITIVO CUMPLE CON LOS REQUISITOS DE UL508C

INSTALLED BY _____

DATE _____

INSTALADO POR _____

FECHA _____

PUB 4148

E-22877
 MADE IN U.S.A.
 FABRICADO EN E.U.A.

REV. 2

EATON

Service Entrance Barrier Kits

Install the following...



Eaton
Circuit Breaker

CSR 25k

200 A 2 Pole
120/240 V ~ 60Hz 40°C
Cat. CSR2200N
Style 7803C07683

Interrupting Capacity
RMS Sym. Ampere
Voll KA 25
120/240 ~

Terminal
Wire Size
CU/AL 2-300

Torque
Lb. In. 250

68C

1413 RMS

200

ON
TRIP
OFF

SERVICE
DISCONNECT

30-8612

[View all PowerPacT B-Frame Molded Case Circuit Breakers](#)


Circuit breaker, PowerPacT B, 60A, 2 pole, 600Y/347VAC, 14kA, lugs, thermal magnetic, 80%

BDL26060

You may consider below alternate product(s) that could have improved delivery lead time

[Add to Cart](#)  Circuit breaker, PowerPacT B, 60A, 2 pole, 600Y/347VAC, 18kA, lugs, thermal magnetic, 80%
BGL26060

Product availability: Stock - Normally stocked in distribution facility

- ✓ Thermal magnetic protection in a compact size
- ✓ Front facing semi transparent cover for quick visual identification
- ✓ A wide range of accessories, auxiliaries, and lug connections available
- ✓ Unit mount with integrated DIN rail and back pan mounting capability
- ✓ QR codes for easy access to device documentation
- ✓ Environmental performance of the product [Learn more](#)

Sustainable by Design



Transparency



RoHS/REACH

783.00 USD [?](#)

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Main documents

Documents

-  [Product Datasheet](#) [↓](#)
-  [User guide](#) [↓](#)
-  [Instruction Sheet](#) [↓](#)
-  [Catalog](#) [↓](#)
-  [Technical Drawing](#) [↓](#)
-  [CAD](#) [↓](#)
-  [Environmental Disclosure](#) [↓](#)

[See all documents](#)

This product is compatible with

 [Accessories \(12\)](#)

Description

PowerPacT B-Frame brings thermal-mechanical circuit protection in a compact size and offers a wide range of accessories, auxiliaries, and connection options. This PowerPacT B-Frame circuit breaker provides thermal magnetic circuit protection with a breaking capacity of 14kA at 600Y/347VAC. All PowerPacT B-Frame circuit breakers are equipped with dual-break rotating contacts that reduce the amount of peak current during a short circuit fault. ...

[Read More](#)

Specifications

Main	
Range	PowerPacT
Product name	PowerPacT B
Device short name	BD 060
Product or Component Type	Circuit breaker
Device Application	Distribution
	Complementary
Line Rated Current	60 A
Number of Poles	2P
Control Type	

[View all Industrial and Residential Circuit Breaker Enclosures](#)


Circuit breaker enclosure, PowerPacT B, 15A to 125A, 2 and 3 pole, NEMA 3R

B125RB

Product availability: Stock - Normally stocked in distribution facility

- ✓ PowerPacT B circuit breaker enclosure 15 to 125A rated
- ✓ NEMA type 3R enclosure for rainproof applications
- ✓ Enclosure assepts BDL, BGL, BJL 2 and 3 poles breakers or BKL 2 poles breakers
- ✓ The short circuit current rating of the enclosed circuit breaker is equal to the rating of the circuit breaker installed
- ✓ Circuit breakers are ordered and shipped separately for field installation
- ✓ Environmental performance of the product [Learn more](#)

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500.00 USD ⓘ

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Main documents

Documents

 Product Datasheet	
 Instruction Sheet	
 Catalog	
 Technical Drawing	
 CAD	
 Environmental Disclosure	

[See all documents](#)

This product is compatible with

EMERGENCY BREAKER ENCLOSURE Type III Personal Safety Breaker with Automatic Reset
CAJINETE PARA INTERRUPTOR AUTOMÁTICO Tipo III, a prueba de bombas
COFFRET DU DISJONCTEUR Type III, à l'épreuve des bombes

WARNING
This breaker cannot safely carry its rated current unless it is kept in the "ON" position. If the breaker is tripped, it must be reset immediately. If the breaker is tripped and the reset button is not pushed, the breaker will not reset and the circuit will remain open. This is a safety feature to prevent the breaker from tripping again.

PRECAUTION
This breaker cannot safely carry its rated current unless it is kept in the "ON" position. If the breaker is tripped, it must be reset immediately. If the breaker is tripped and the reset button is not pushed, the breaker will not reset and the circuit will remain open. This is a safety feature to prevent the breaker from tripping again.

PREVENZIONE
Questo interruttore non può trasportare la corrente nominale a meno che non sia tenuto in posizione "ON". Se l'interruttore si è azionato, deve essere immediatamente resettato. Se l'interruttore si è azionato e il pulsante di reset non viene premuto, l'interruttore non si resetterà e il circuito rimarrà aperto. Questa è una caratteristica di sicurezza per impedire che l'interruttore si azioni nuovamente.

Model: B125RB
Serial No.: 2316
SQUARE D
by Schneider Electric

WARNING / PELIGRO / DANGER

PG-E

EMERGENCY STOP

BREAK LENS-RELEASE BUTTON

GENERAC

POWER SASD MOV1 MOV2

L1 L2

PG-E

TRANSECTOR
800.862.8110 208.855.8400

APEX I max

PowerPacT

BDL26060

ON / OFF Circuit Breaker /
Interruptor Automático

INTERRUPTING RATING		VALOR DE INTERRUPCIÓN	
(V)	50/60 Hz	(kA)	
240 ~		25	
480 ~		18	
800Y/347 ~		14	
240 1Ø-3Ø		18	
250 m		50	

LISTED CB
177007

60A

D