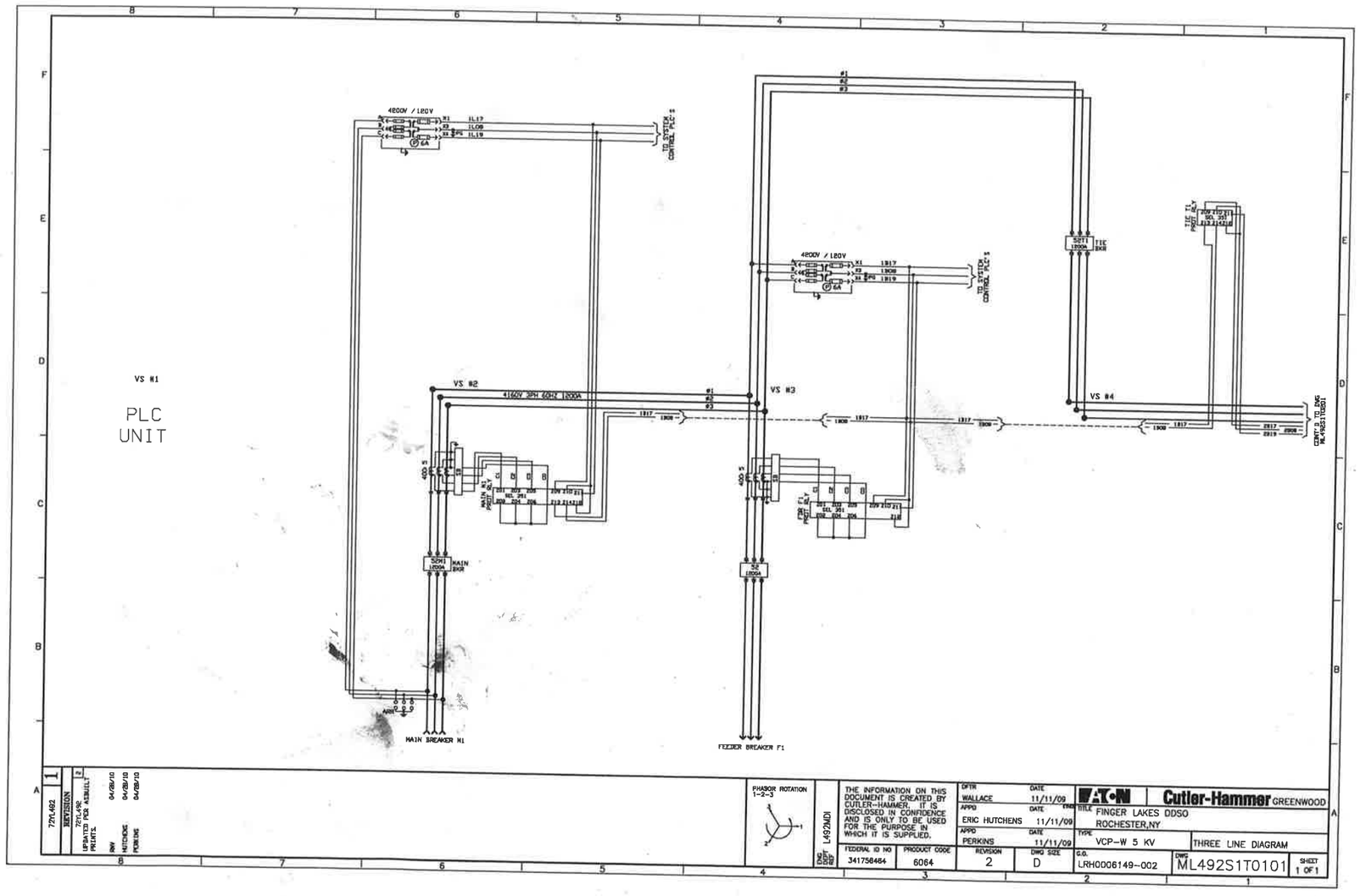
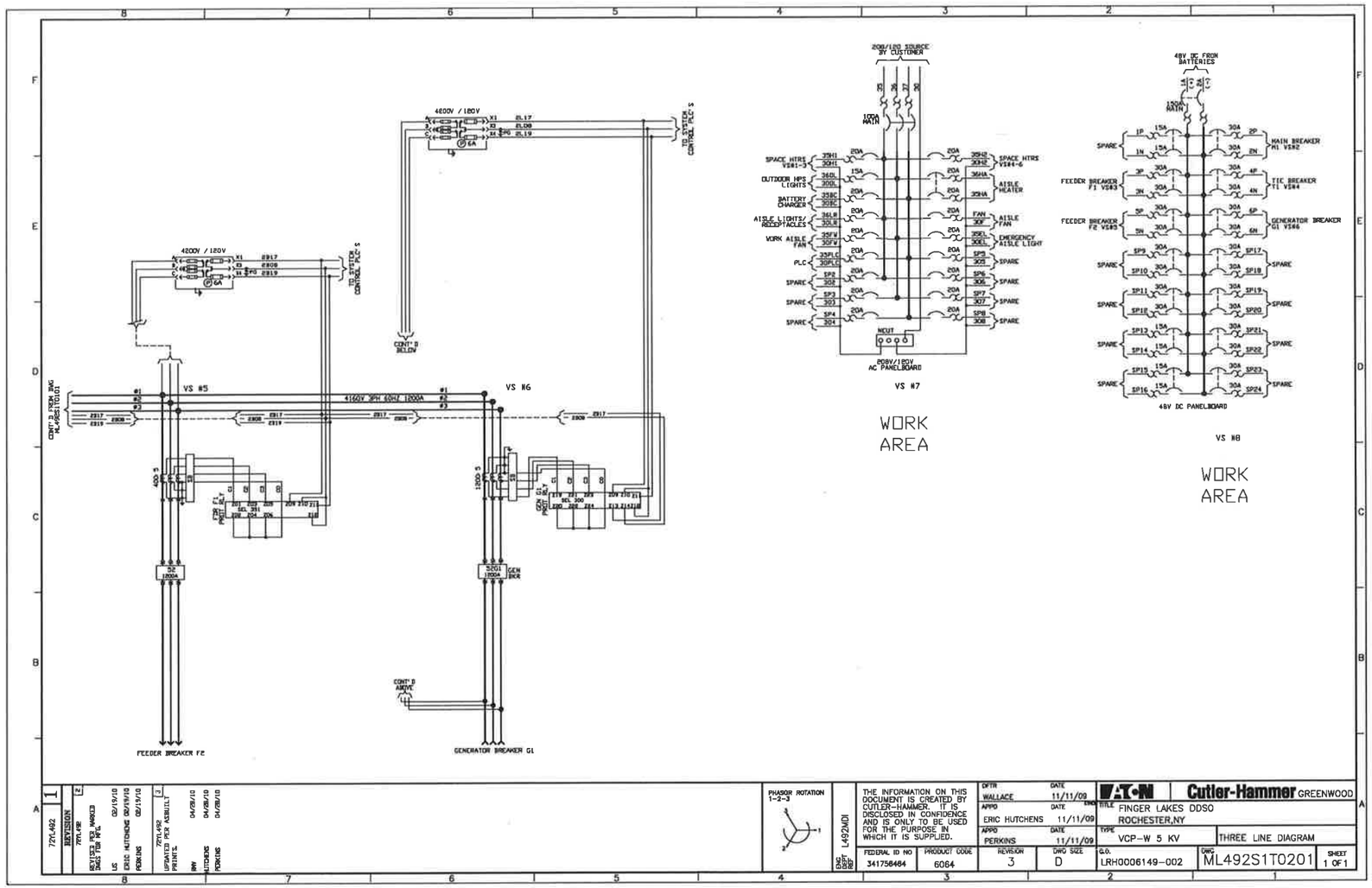

VS #1
PLC
UNIT
VS #2
VS #3
VS #4
4160V 3PH 60HZ 1200A
4200V / 120V
TO SYSTEM CONTROL PLC'S
MAIN BKR
MAIN BREAKER M1
FEEDER BREAKER F1
PHASOR ROTATION
1-2-3
L492N01
THE INFORMATION ON THIS DOCUMENT IS CREATED BY CUTLER-HAMMER. IT IS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.
DFTR WALLACE 11/11/09
APPD ERIC HUTCHENS 11/11/09
APPD PERKINS 11/11/09
FEDERAL ID NO 341758464
PRODUCT CODE 6064
REVISION 2
DWG SIZE D
Eaton Cutler-Hammer GREENWOOD
TITLE FINGER LAKES DDSO
ROCHESTER,NY
TYPE VCP-W 5 KV
THREE LINE DIAGRAM
G.O. LRH0006149-002
DWG ML492S1T0101
SHEET 1 OF 1
REVISION
7291492
7291.492 UPDATED PER ASBUILT PRINTS.
RW 04/09/10
HUTCHINS 04/09/10
PERKINS 04/09/10



REVISION			
721L492	1		
721L491		REVISED PER MARKED PRINTS FOR APPL	LS 02/19/10
			ERIC HUTCHENS 02/19/10
			PERKINS 02/19/10
721L491		UPDATED FOR ASBUILT PRINTS.	RMY 04/08/10
			HUTCHENS 04/08/10
			PERKINS 04/08/10

PHASOR ROTATION 1-2-3

THE INFORMATION ON THIS DOCUMENT IS CREATED BY CUTLER-HAMMER. IT IS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.

DRTR	WALLACE	11/11/09
APPD	ERIC HUTCHENS	11/11/09
APPD	PERKINS	11/11/09

FEDERAL ID NO	PRODUCT CODE	REVISION	DWG SIZE
341758464	6064	3	D

EATON Cutler-Hammer GREENWOOD

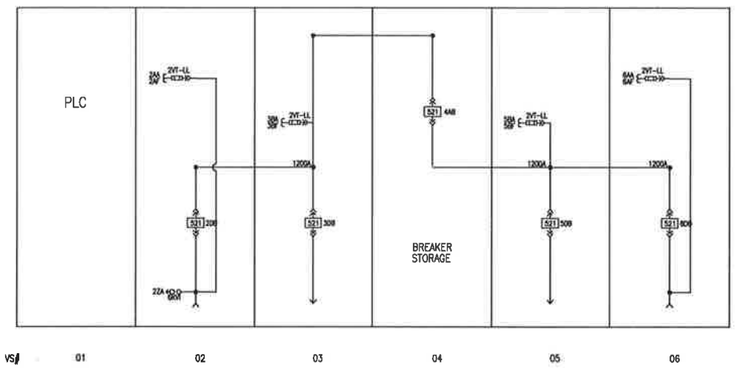
TITLE: FINGER LAKES DDSO ROCHESTER,NY

TYPE: VCP-W 5 KV — THREE LINE DIAGRAM

G.O. LRH0006149-002 — DWG ML492S1T0201 — SHEET 1 OF 1

L492UNI

POWER FLOW



GENERAL DESCRIPTION

CUSTOMER	NAME	FINGER LAKES DDSO
	INSTALLATION	ROCHESTER,NY
	P.O.#	2271816-00
SYSTEM	LINE TO LINE VOLTAGE	4160 V
	BASIC IMPULSE LEVEL	60 KV CREST
	GROUND	SOLID GROUNDING
	NUMBER OF PHASES	3 PH
	FREQUENCY	60 HZ
	PHASE SEQUENCE	1 - 2 - 3 OR A - B - C
ENCLOSURE	ENCLOSURE	SHELTERED AISLE
	REAR ACCESS	COVERS
	REAR LATCHING	BOLTED
	FRONT LATCHING	QUARTER TURN KNOB
	AISLE EQUIPMENT	FANS AND HEATERS
	REAR COMPARTMENT FLOOR	STEEL
FINISH	ENCLOSURE EXTERIOR	ANSI 70
	VERTICAL SECTION INTERIOR	ANSI 61
	AISLE INTERIOR	ANSI 61
BUS	BUS RATING	1200A COPPER SILVER PLATED
	JOINT HARDWARE	HT STL (YELLOW ZINC CR)
	SUPPORT INSULATION	GLASS POLYESTER
	GROUND BUS	0.25 X 2 COPPER NO PLATING
SECONDARY & CONTROL	BREAKER CONTROL POWER	BATTERY
	WIRE TYPE	SIS
	WIRE SIZE NON CURRENT CKT'S	# 14 MIN
	WIRE SIZE CURRENT CKT'S	# 14 MIN
	TERMINALS	INSULATED LOCK IN FORK (ALL)
	WIRE MARKERS	ADHESIVE WRAP ON
	TERMINAL BLOCKS (GENERAL)	STANDARD 50A, 600V
	TERMINAL BLOCKS (CTS)	SHORT CKT TYPE 50A, 600V
	WIRE LABELING	STANDARD
	HEATER POWER SOURCE	REMOTE
	VOLTAGE APPLIED TO HEATERS	120V WIRED FOR STORAGE
STANDARDS		ANSI, IEEE, NEMA
OPTIONAL EQUIPMENT		1 BREAKER LIFT DEV., BREAKER TEST CABINET, DOCKABLE DOLLY 1 SPARE BREAKER

NEMA DRILLING OR POWER CABLE TERMINALS ARE PROVIDED FOR EXTERNAL CONNECTIONS. THESE AREAS MUST BE INSULATED. UNLESS INSULATING MATERIALS FOR THESE CONNECTIONS WERE INCLUDED IN CUSTOMER'S ORDER SPECIFICATION, THIS INSULATING MATERIAL MUST BE PROVIDED BY INSTALLING CONTRACTOR OR PURCHASER. FOR BUS BAR SHIPPING SPLIT CONNECTIONS, EATON HAS INCLUDED INSULATING MATERIAL.

REVISION			
1	727L492		
2	727L492 LRH0006149 - 002	UPDATED FOR MFG	SMC 2/17/2010
3	727L492 LRH0006149 - 002	UPDATED FOR CHG 2	SMC 3/10/2010

L492MDI

THE INFORMATION ON THIS DOCUMENT IS CREATED BY CUTLER-HAMMER. IT IS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.

DFTR	ROBERTSON	DATE 11/19/2009
APPD	ERIC HUTCHENS	DATE 11/19/2009
APPD	PERKINS	DATE 11/19/2009

FEDERAL ID NO 341756484 | PRODUCT CODE 6064 | REVISION 3 | DRG SIZE D

EATON Cutler-Hammer GREENWOOD

TITLE FINGER LAKES DDSO
ROCHESTER,NY

TYPE VCP-W 5 KV

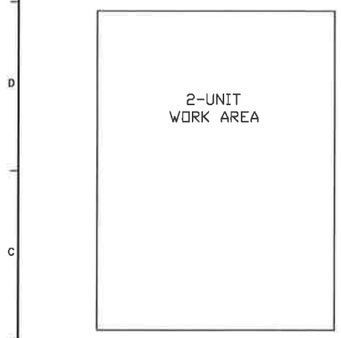
POWER FLOW

C.O. LRH0006149 - 002

DWG ML492S1L0101

SHEET 1 OF 1

POWER FLOW



VS# 07 08

NEMA DRILLING OR POWER CABLE TERMINALS ARE PROVIDED FOR EXTERNAL CONNECTIONS. THESE AREAS MUST BE INSULATED. UNLESS INSULATING MATERIALS FOR THESE CONNECTIONS WERE INCLUDED IN CUSTOMER'S ORDER SPECIFICATION, THIS INSULATING MATERIAL MUST BE PROVIDED BY INSTALLING CONTRACTOR OR PURCHASER.
FOR BUS BAR SHIPPING SPLIT CONNECTIONS, EATON HAS INCLUDED INSULATING MATERIAL.

772L492	REVISION			
	1	DO NOT RELEASED FOR MFG	SMS	2/17/2010
	2	772L492 LRH0006149 -		

L492M1 DWG DESC

THE INFORMATION ON THIS DOCUMENT IS CREATED BY CUTLER-HAMMER. IT IS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.

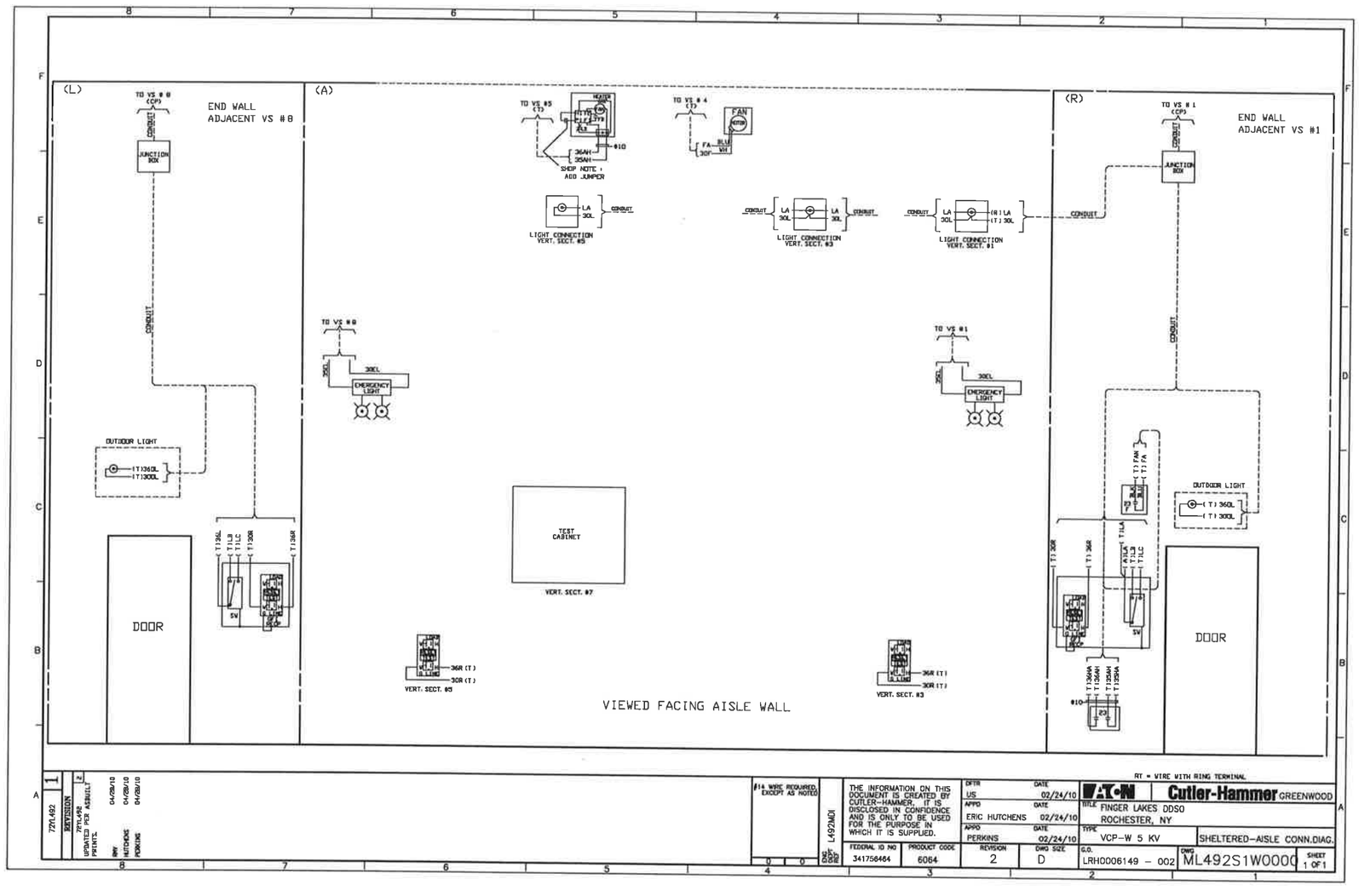
DFTR	DATE
ROBERTSON	11/19/2009
APPD	DATE
ERIC HUTCHENS	11/19/2009
APPD	DATE
PERKINS	11/19/2009

EATON Cutler-Hammer GREENWOOD

TITLE FINGER LAKES DDSO
ROCHESTER,NY

TYPE VCP-W 5 KV | POWER FLOW

FEDERAL ID NO	PRODUCT CODE	REVISION	DWG SIZE	G.O.	DWG	SHEET
341756464	6064	2	D	LRH0006149 - 002	ML492S1L0201	1 OF 1



REVISION	BY	DATE
1		
2 UPDATED AS ASBUILT PRINTS.	MW	04/29/10
	HUTCHENS	04/29/10
	PERKINS	04/29/10

7214492

#14 WIRE REQUIRED, EXCEPT AS NOTED

L492MDI

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RT = WIRE WITH RING TERMINAL

DFTR		DATE 02/24/10
LIE		
APPD		DATE
ERIC HUTCHENS		02/24/10
APPD		DATE
PERKINS		02/24/10

Cutler-Hammer GREENWOOD

TITLE FINGER LAKES DDSO
ROCHESTER, NY

TYPE VCP-W 5 KV

SHELTERED-AISLE CONN.DIAG.

FEDERAL ID NO	PRODUCT CODE	REVISION	DWG SIZE	G.O.	DWG	SHEET
341756464	6064	2	D	LRH0006149 - 002	ML492S1W0000	1 OF 1

VERTICAL SECTION # 1
LOWER COMPARTMENT HINGED PANEL (REAR VIEW)

(H)

(J)

(B)

(K)

(F)

(Z)

SEE DWG.
ML492S1W0105

LEFT SIDE SHEET

RIGHT SIDE SHEET

B COMPARTMENT (FRONT VIEW)

RT= WIRE WITH RING TERMINAL

#14 WIRE REQUIRED, EXCEPT AS NOTED

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DFTR NGD	DATE 02/22/10		
APPD ERIC HUTCHENS	DATE 02/22/10		
APPD PERKINS	DATE 03/22/10		
FEDERAL ID NO 341756464	PRODUCT CODE 6064	REVISION 3	DWG SIZE D

EATON Cutler-Hammer GREENWOOD

TITLE FINGER LAKES DDSO
ROCHESTER, NY

TYPE VCP-W 5 KV | CONN DIAG VERT SECT 1

G.O. LRH00006149-002 | DWG ML492S1W0101 | SHEET 1 OF 1

1	7271-492		
2	REVISION 7271-492 REVISED FOR WPL	US ERIC HUTCHENS PERKINS	03/05/10 03/09/10 03/09/10
3	7271-492 UPDATED PER ASBUILT PRINTS	BW HUTCHENS PERKINS	04/30/10 04/30/10 04/30/10

VERTICAL SECTION # 1
UPPER COMPARTMENT

HINGED PANEL (REAR VIEW)

(H)

PANELMATE
EPRO 76837-13

24V DC KYSW SERIAL PORT 1 SERIAL PORT 2 FAULT REL AUDIO

CABLE CONNECTS TO PLC

A/M

LEFT SIDE SHEET

(L)

ROOF SHEET

A COMPARTMENT (FRONT VIEW)

(T)

VERTICAL SECTION # 1

SEE DRAWING ML492S1V0000

(A)

RIGHT SIDE SHEET

(R)

(W)

SEE DWG.
ML492S1W0103

RT= WIRE WITH RING TERMINAL

#14 WIRE REQUIRED, EXCEPT AS NOTED

REVISION			
1	7214492	UPDATED PER ASBUILT PRINTS.	RM 04/29/10 HUTCHENS 04/29/10 PERKINS 04/29/10

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DFTR	NGB	02/22/10
APPD	ERIC HUTCHENS	02/22/10
APPD	PERKINS	02/22/10

EATON Cutler-Hammer GREENWOOD

TITLE FINGER LAKES ODSO
ROCHESTER, NY

TYPE VCP-W 5 KV

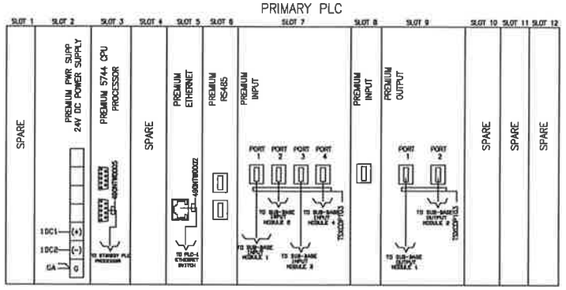
CONN DIAG VERT SECT 1

FEDERAL ID NO	PRODUCT CODE	REVISION	DWG SIZE	G.O.	DWG	SHEET
341756464	6064	2	D	LRH0006149-002	ML492S1W0102	1 OF 1

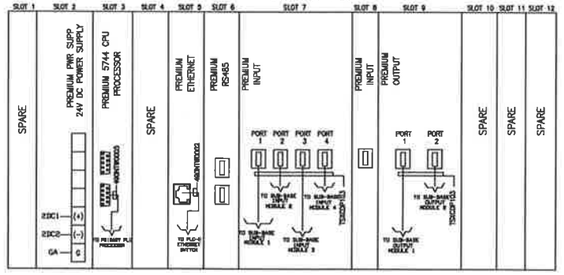
L492MDI

(A)

PRIMARY PLC



STANDBY PLC



SEE DWG.
ML492S1W0104

RT= WIRE WITH RING TERMINAL

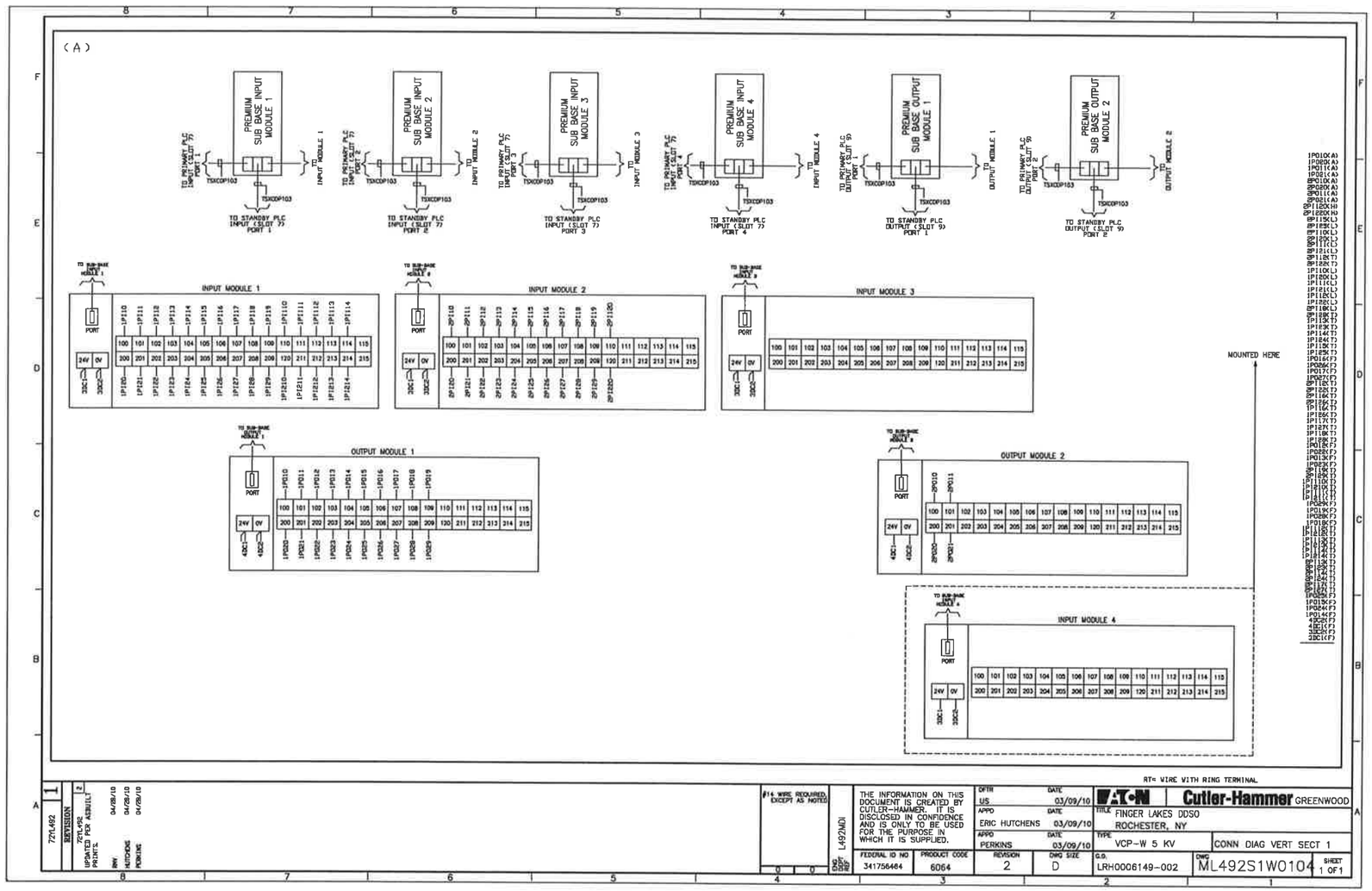
#14 WIRE REQUIRED, EXCEPT AS NOTED

DWG DIST REF 1492MDI

THE INFORMATION ON THIS DOCUMENT IS CREATED BY CUTLER-HAMMER. IT IS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.

DRTR NGB	DATE 02/22/10	EATON Cutler-Hammer GREENWOOD
APPD ERIC HUTCHENS	DATE 02/22/10	TITLE FINGER LAKES DDSO ROCHESTER, NY
APPD PERKINS	DATE 02/22/10	TYPE VCP-W 5 KV — CONN DIAG VERT SECT 1
FEDERAL ID NO 341758464	PRODUCT CODE 6064	REVISION 2 — DWG SIZE D — G.O. LRH0006149-002 — DWG ML492S1W0103 — SHEET 1 OF 1

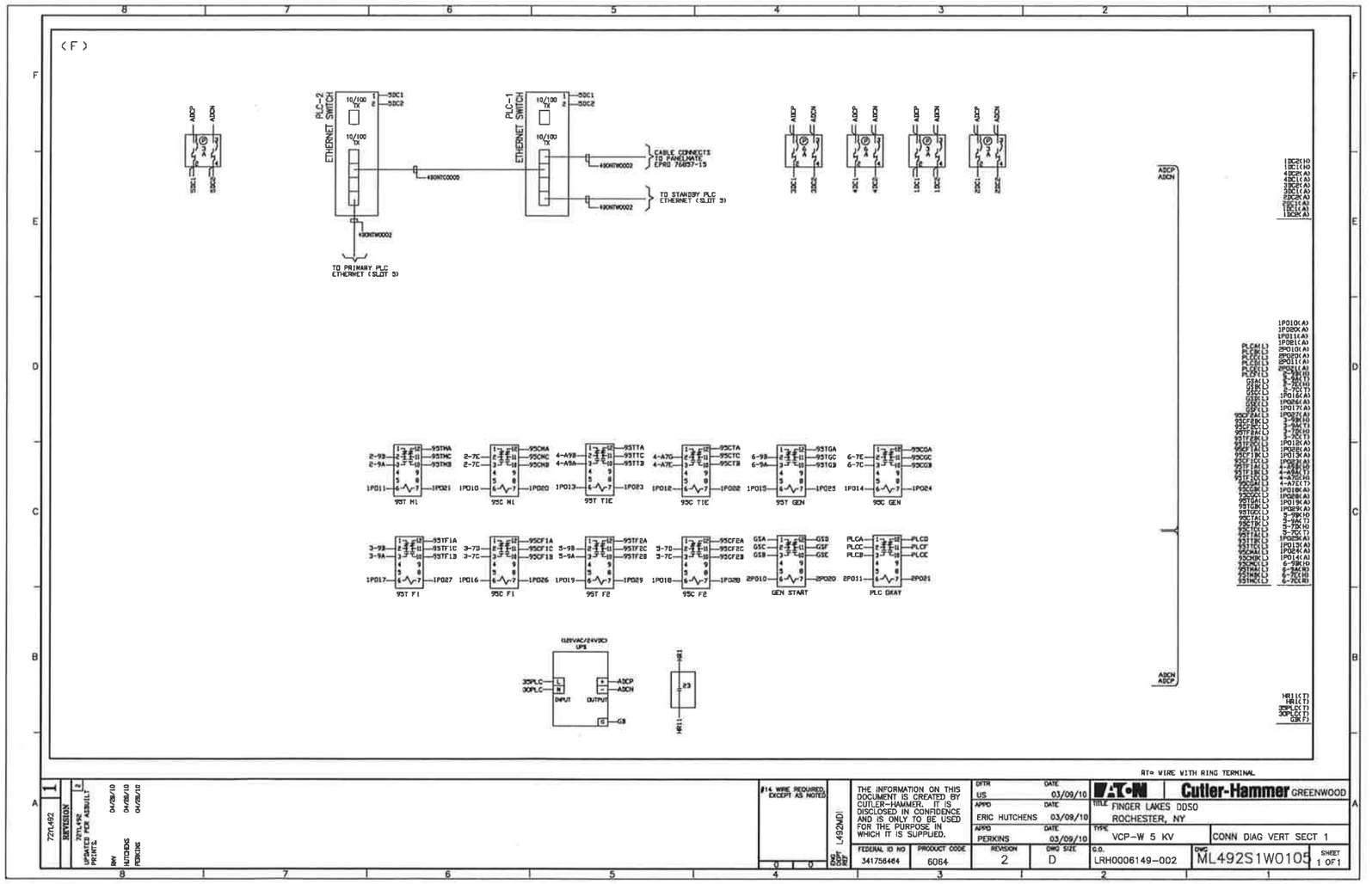
REVISION			
1	721L-462		
2	721L-492	KEY ISSUE FOR MFG.	LS 03/09/10
			ERIC HUTCHENS 03/09/10
			PERKINS 03/09/10



RT= WIRE WITH RING TERMINAL

72N492	1	72N492 UPDATED PER ASBUILT PRINTS	RW	04/09/10	#14 WIRE REQUIRED, EXCEPT AS NOTED	L492NDI	THE INFORMATION ON THIS DOCUMENT IS CREATED BY CUTLER-HAMMER. IT IS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.
			HUTCHINS	04/09/10			
			MORKINS	04/09/10			

DFTR US	DATE 03/09/10	Eaton Cutler-Hammer GREENWOOD	
APPD ERIC HUTCHENS	DATE 03/09/10	TITLE FINGER LAKES DDSO ROCHESTER, NY	
APPD PERKINS	DATE 03/09/10	TYPE VCP-W 5 KV	CONN DIAG VERT SECT 1
FEDERAL ID NO 341756464	PRODUCT CODE 6064	REVISION 2	DWG SIZE D
G.O. LRH0006149-002	DWG ML492S1W0104	SHEET 1 OF 1	



72tl492	1	72tl492 UPDATED PER ASBUILT	RW 04/29/10
REVISION	2		HUTCHENS 04/29/10
			PERKINS 04/29/10

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DFTR	DATE 03/09/10
US	
APPD	DATE
ERIC HUTCHENS	03/09/10
APPD	DATE
PERKINS	03/09/10

FEDERAL ID NO	341758464
PRODUCT CODE	6064
REVISION	2
DWG SIZE	D

Eaton Cutler-Hammer GREENWOOD

TITLE FINGER LAKES DDSO
ROCHESTER, NY

TYPE VCP-W 5 KV

CONN DIAG VERT SECT 1

G.O. LRH0006149-002

DWG ML492S1W0105

SHEET 1 OF 1

DWG CODE L492ND1

DWG REF 0 0

VERTICAL SECTION # 2
LOWER COMPARTMENT HINGED PANEL (REAR VIEW)

(P)

(J)

(C)

(D)

MAIN BUS

(Z)

(K)

MAIN M1 PROT RLY
SEL-351
SCHWEITZER ENGINEERING LABORATORIES

SBM1

MAIN BKR

GRD BUS

CABLES TO UPPER COMPARTMENT

MAIN BREAKER M1

LEFT SIDE SHEET
CUSTOMER USE (2)
DEVICE SEL-351(MAIN M1 PROT RLY)
TO ANNUN (UTILITY AVAIL) (3)
DEVICE SEL-351(MAIN M1 PROT RLY)
TO ANNUN (DC LOW ALARM) (4)
DEVICE SEL-351(MAIN M1 PROT RLY)

RIGHT SIDE SHEET
TO ANNUN DEVICE 06 M1 (5)
TO ANNUN DEVICE MDC (6)

B COMPARTMENT (FRONT VIEW)

RT= WIRE WITH RING TERMINAL.

72TL492	1	REVISION	
72TL492 UPDATES PER ASBUILT		RW	04/28/10
UPDATES PER INTITIAL		KEITCHENS	04/28/10
		PERKINS	04/28/10

#14 WIRE REQUIRED, EXCEPT AS NOTED

L492MDI

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DFTR	AAD	DATE	02/22/10
APPD	ERIC HUTCHENS	DATE	02/22/10
APPD	PERKINS	DATE	02/22/10
FEDERAL ID NO	341756464	PRODUCT CODE	6064
REVISION	2	DWG SIZE	D

EATON Cutler-Hammer GREENWOOD

TITLE: FINGER LAKES DDSO
ROCHESTER, NY

TYPE: VCP-W 5 KV

CONN DIAG VERT SECT 2

G.O.: LRH0006149-002

DWG: ML492S1W0201

SHEET: 1 OF 1

VERTICAL SECTION # 2
UPPER COMPARTMENT

HINGED PANEL (REAR VIEW)

LEFT SIDE SHEET

REF SHEET

TO SYSTEM CONTROL PLC'S DEVICE Y1

A COMPARTMENT (FRONT VIEW)

SHIPPING BREAK

RIGHT SIDE SHEET

VERTICAL SECTION # 2

(T) (H) (L) (R) (A) (E) (W)

CABLE TO LOWER COMPARTMENT

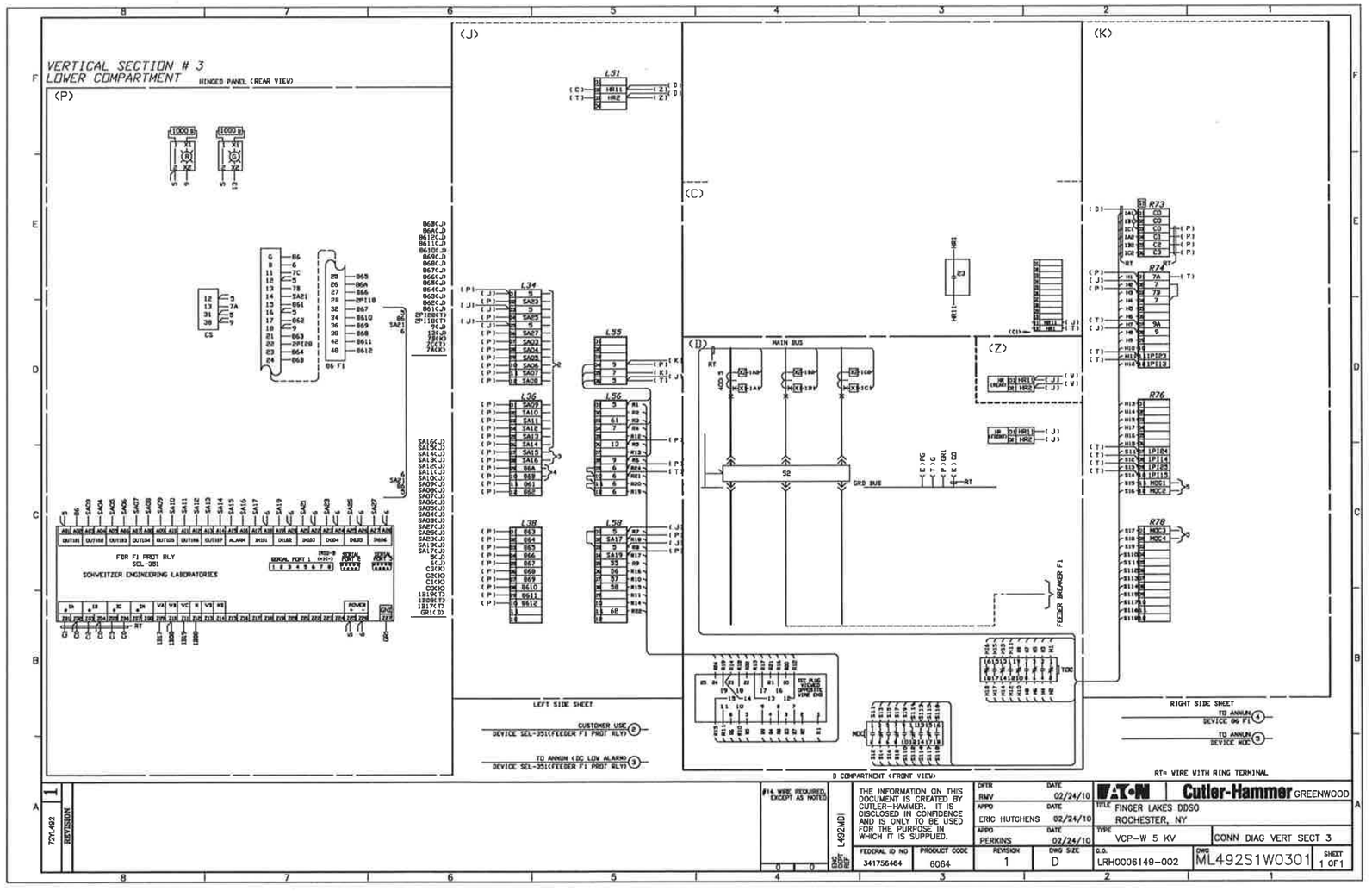
4200 V 120V

6A

TO GRD BUS

RT= WIRE WITH RING TERMINAL

72H-492	1	UPDATED PER ASBUILT PRINTS.	04/29/10


VERTICAL SECTION # 3
LOWER COMPARTMENT
HINGED PANEL (REAR VIEW)
(P)
(J)
(C)
(D)
(Z)
(K)
MAIN BUS
GRD BUS
FEEDER BREAKER F1
FOR F1 PROT RLY
SEL-351
SCHWEITZER ENGINEERING LABORATORIES
LEFT SIDE SHEET
RIGHT SIDE SHEET
CUSTOMER USE
DEVICE SEL-351(FEEDER F1 PROT RLY)
TO ANNUN (DC LOW ALARM)
DEVICE SEL-351(FEEDER F1 PROT RLY)
TO ANNUN
DEVICE 06 F1
TO ANNUN
DEVICE MOC
B COMPARTMENT (FRONT VIEW)
RT= WIRE WITH RING TERMINAL
#14 WIRE REQUIRED, EXCEPT AS NOTED
THE INFORMATION ON THIS DOCUMENT IS CREATED BY CUTLER-HAMMER, IT IS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.
DRVR RMV 02/24/10
APPD ERIC HUTCHENS 02/24/10
APPD PERKINS 02/24/10
FEDERAL ID NO 341756484
PRODUCT CODE 6064
REVISION 1
DWG SIZE D
G.O. LRH0006149-002
DWG ML492S1W0301
SHEET 1 OF 1
TITLE FINGER LAKES DDSO
ROCHESTER, NY
TYPE VCP-W 5 KV
CONN DIAG VERT SECT 3
Cutler-Hammer GREENWOOD
7291.492
REVISION 1
L492MDI

VERTICAL SECTION # 3
UPPER COMPARTMENT

HINGED PANEL (REAR VIEW)

LEFT SIDE SHEET

SHIPPING BREAK

A COMPARTMENT (FRONT VIEW)

VERTICAL SECTION # 2

RIGHT SIDE SHEET

(HS) NOTE TO SHOP: LEAVE WIRES 15FT. IN LENGTH WITH T.B. CONNECTED TO END.

NOTE TO CUSTOMER: CONNECT 120V AC FOR TEMPORARY HEATER SOURCE.

TO SYSTEM CONTROL PLC'S DEVICE VT-1

NOTE TO CUSTOMER: REMOVE THESE WIRES BEFORE SWGR. IS ENERGIZED

SEE DRAWING ML49251W0000

CABLES TO VS#4

TO MAIN BUS

TO GRD. BUS

4200V
120V

#14 WIRE REQUIRED, EXCEPT AS NOTED

RT= WIRE WITH RING TERMINAL

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REVISION	DESCRIPTION	BY	DATE
1	721L492		
2	721L492 UPDATED PER ASBUILT	RMV	04/29/10
		HUTCHENS	04/29/10
		PERKINS	04/29/10

DFTR RMV	DATE 02/24/10	Eaton Cutler-Hammer GREENWOOD	
APPD ERIC HUTCHENS	DATE 02/24/10	TITLE FINGER LAKES DDSO ROCHESTER, NY	
APPD PERKINS	DATE 02/24/10	TYPE VCP-W 5 KV	CONN DIAG VERT SECT 3
FEDERAL ID NO 341758464	PRODUCT CODE 6064	REVISION 2	DWG SIZE D
G.O. LRH0006149-002	DWG ML492S1W0302	SHEET 1 OF 1	

L492MDI

VERTICAL SECTION # 4
LOWER COMPARTMENT

HINGED PANEL (REAR VIEW)

(P)

(J)

(B)

(K)

(F)

(Z)

LEFT SIDE SHEET

RIGHT SIDE SHEET

B COMPARTMENT (FRONT VIEW)

RT= WIRE WITH RING TERMINAL

#14 WIRE REQUIRED EXCEPT AS NOTED

L492NDI

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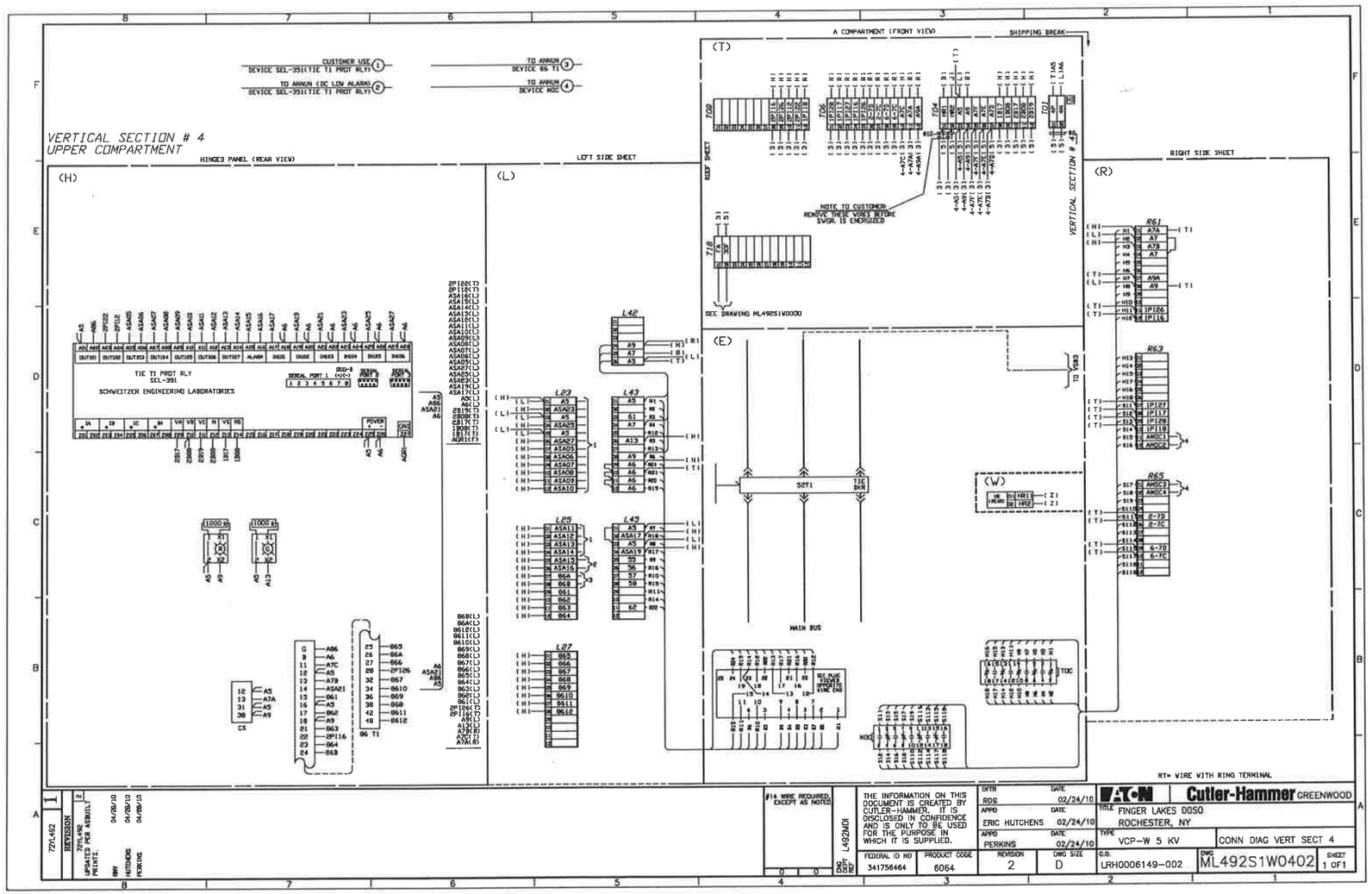
DFTR RDS	DATE 02/24/10	EATON Cutler-Hammer GREENWOOD
APPD ERIC HUTCHENS	DATE 02/24/10	TITLE FINGER LAKES DDSO ROCHESTER, NY
APPD PERKINS	DATE 02/24/10	TYPE VCP-W 5 KV — CONN DIAG VERT SECT 4
FEDERAL ID NO 341756464	PRODUCT CODE 6064	REVISION 1 — DWG SIZE D — G.O. LRH0006149-002 — DWG ML492S1W0401 — SHEET 1 OF 1

7774492 REVISION



720.492	REVISION						
	1	2	7214-WE UPDATED PER AS BUILT PRINTS.	RMW	HUTCHENS	04/30/10	
					PERKINS	04/30/10	

#14 WIRE REQUIRED, EXCEPT AS NOTED

DWG DESC: L492MDI

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DFTR	DATE
RDS	02/24/10
APPD	DATE
ERIC HUTCHENS	02/24/10
APPD	DATE
PERKINS	02/24/10

FEDERAL ID NO	PRODUCT CODE	REVISION	DWG SIZE
341756464	6064	2	D

Eaton Cutler-Hammer GREENWOOD

TITLE: FINGER LAKES DDSO
ROCHESTER, NY

TYPE: VCP-W 5 KV | CONN DIAG VERT SECT 4

G.O. LRH0006149-002 | DWG ML492S1W0402 | SHEET 1 OF1

VERTICAL SECTION # 5
LOWER COMPARTMENT
HINGED PANEL (REAR VIEW)

(P)

(J)

(C)

(D)

(K)

(Z)

MAIN BUS

GRD BUS

FEEDER BREAKER F

FOR F2 PROT RLY
SEL-351
SCHWEITZER ENGINEERING LABORATORIES

LEFT SIDE SHEET

CUSTOMER USE
DEVICE SEL-351(FEEDER F1 PROT RLY)

TO ANNUN (DC LOW ALARM)
DEVICE SEL-351(FEEDER F1 PROT RLY)

RIGHT SIDE SHEET

TO ANNUN
DEVICE 86 F1

TO ANNUN
DEVICE MDC

B COMPARTMENT (FRONT VIEW)

RT= WIRE WITH RING TERMINAL.

#14 WIRE REQUIRED EXCEPT AS NOTED

REVISION			
1	771L492		

THE INFORMATION ON THIS DOCUMENT IS CREATED BY CUTLER-HAMMER, IT IS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.

DFTR	DATE	Eaton Cutler-Hammer GREENWOOD	
RWV	02/24/10		
APPD	DATE	TITLE	FINGER LAKES DDSO
ERIC HUTCHENS	02/24/10		ROCHESTER, NY
APPD	DATE	TYPE	VCP-W 5 KV
PERKINS	02/24/10		CONN DIAG VERT SECT 5
FEDERAL ID NO	PRODUCT CODE	REVISION	DWG SIZE
341756464	6064	1	D
C.O.	DWG	SHEET	
LRH0006149-002	ML492S1W0501	1 OF 1	

L492MD1

VERTICAL SECTION # 5
UPPER COMPARTMENT

HINGED PANEL (REAR VIEW)

LEFT SIDE SHEET

SHIPPING BREAK

A COMPARTMENT (FRONT VIEW)

RIGHT SIDE SHEET

(H)

(L)

(T)

(A)

(R)

(HS) NOTE TO SHOP: LEAVE WIRES 10FT. IN LENGTH WITH T.B. CONNECTED TO END.

NOTE TO CUSTOMER: CONNECT 120V AC FOR TEMPORARY HEATER SOURCE.

TO SYSTEM CONTROL PLC'S DEVICE VT

NOTE TO CUSTOMER: REMOVE THESE WIRES BEFORE SVGR IS ENERGIZED

SEE DRAWING ML492S1V0000

VERTICAL SECTION # 5

(W)

(E)

CABLES TO MAIN BUS

4200V 120V

TO GRD. BUS

RT= WIRE WITH RING TERMINAL

REVISION			
1	7271-452	UPDATED PER ASBUILT PRINTS.	04/20/10 RMV 04/20/10 HUTCHENS 04/20/10 PERKINS
2	7271-452		

#14 WIRE REQUIRED, EXCEPT AS NOTED

L492MDI

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DFTR RMV	DATE 02/24/10		
APPD ERIC HUTCHENS	DATE 02/24/10		
APPD PERKINS	DATE 02/24/10		
FEDERAL ID NO 341756464	PRODUCT CODE 6084	REVISION 2	DWG SIZE D

EATON Cutler-Hammer GREENWOOD

TITLE: FINGER LAKES DDSO ROCHESTER, NY

TYPE: VCP-W 5 KV

CONN DIAG VERT SECT 5

Q.O. LRH0006149-002

DWG ML492S1W0502

SHEET 1 OF 1

VERTICAL SECTION # 6
LOWER COMPARTMENT

HINGED PANEL (REAR VIEW)

(P)

SEE DWG.
ML492S1W0603

(J)

(C)

(D)

(Z)

(K)

MAIN BUS

SBS1

GRD BUS

CABLES TO UPPER COMPARTMENT

GENERATOR BREAKER G1

TDC

LEFT SIDE SHEET

CUSTOMER USE
DEVICE SEL-351(MAIN M1 PROT RLY)

TO ANNUN
DEVICE 66 M1

TO ANNUN
DEVICE MDC

RIGHT SIDE SHEET

D COMPARTMENT (FRONT VIEW)

RT= WIRE WITH RING TERMINAL

#14 WIRE REQUIRED, EXCEPT AS NOTED

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DFTR		DATE
AAD		02/22/10
APPD		DATE
ERIC HUTCHENS		02/22/10
APPD		DATE
PERKINS		02/22/10

FEDERAL ID NO	PRODUCT CODE	REVISION	DWG SIZE
341756484	6064	1	D

Eaton Cutler-Hammer GREENWOOD

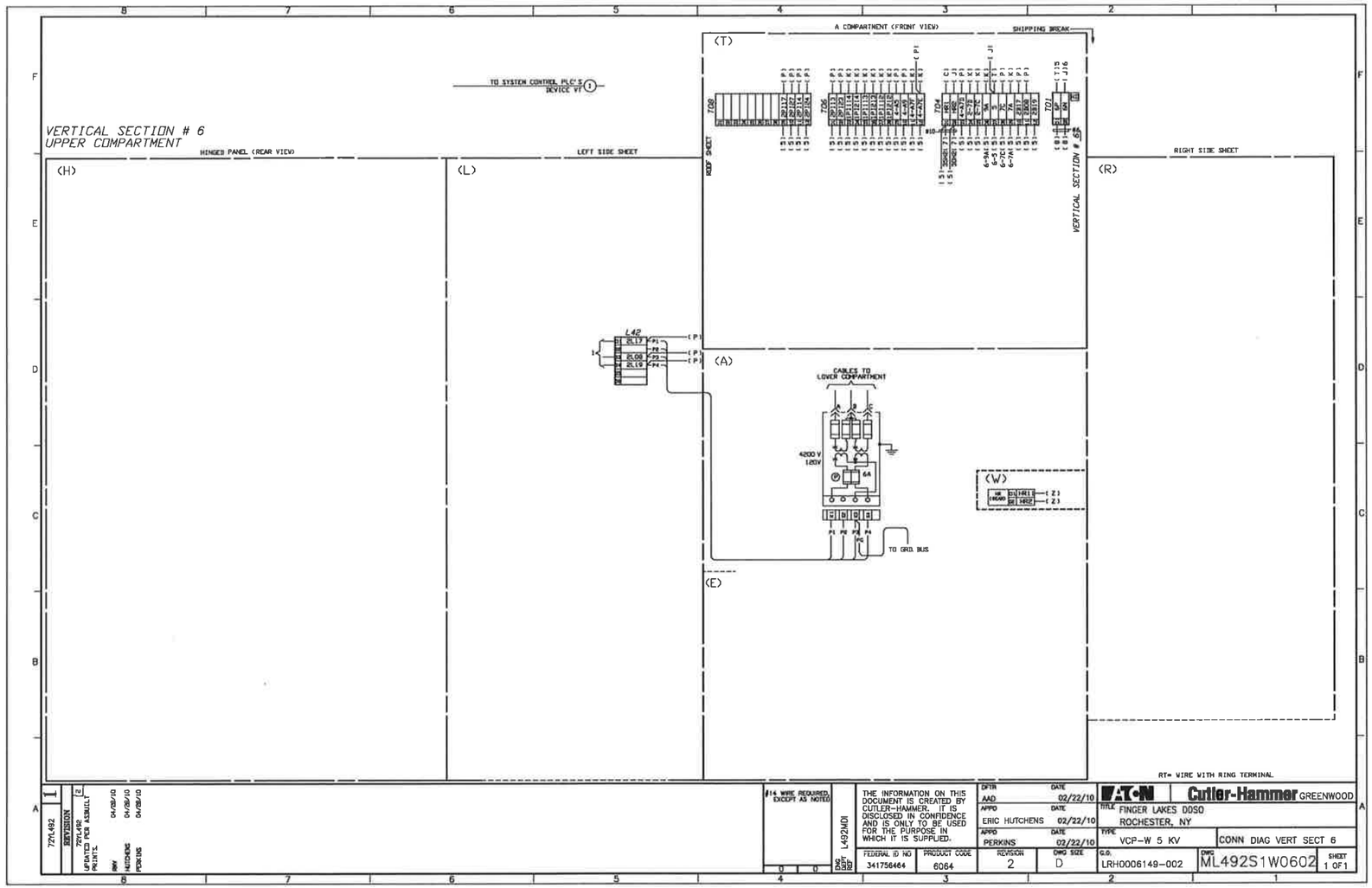
TITLE: FINGER LAKES DOSO
ROCHESTER, NY

TYPE: VCP-W 5 KV | CONN DIAG VERT SECT 6

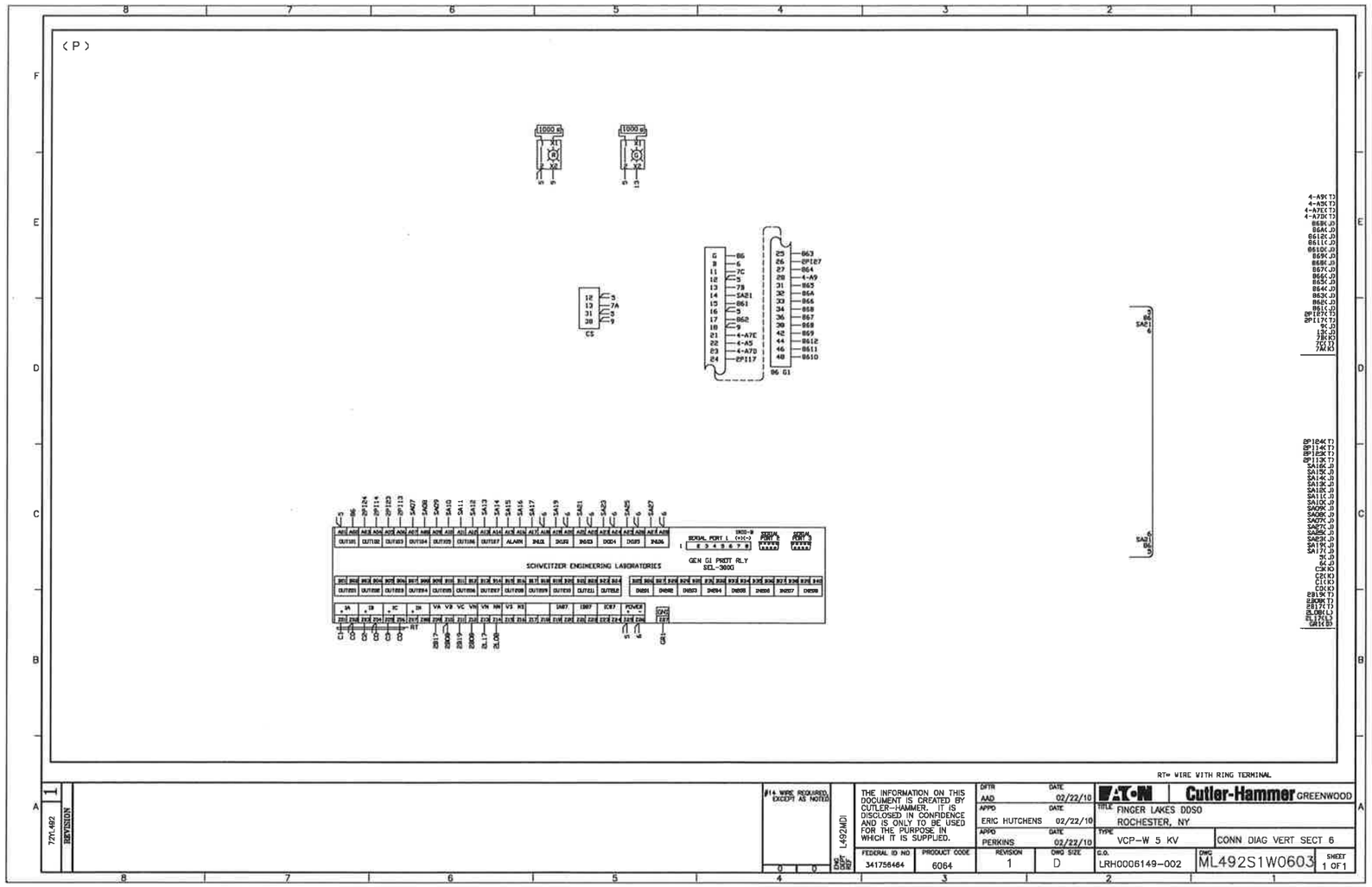
C.O. LRH0006149-002 | DWG ML492S1W0601 | SHEET 1 OF 1

72M492 | REVISION 1

DWG REF L492MDI



72YL492	1	72YL492 UPDATED PER ASBUILT	RW	04/30/10	#14 WIRE REQUIRED, EXCEPT AS NOTED	L492M01	THE INFORMATION ON THIS DOCUMENT IS CREATED BY CUTLER-HAMMER. IT IS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.	DFTR AAD 02/22/10	Eaton Cutler-Hammer GREENWOOD
	REVISION		HUTCHENS	04/30/10				APPD ERIC HUTCHENS 02/22/10	TITLE FINGER LAKES DOSO ROCHESTER, NY
			PERKINS	04/30/10				APPD PERKINS 02/22/10	TYPE VCP-W 5 KV / CONN DIAG VERT SECT 6
								FEDERAL ID NO 341756464 / PRODUCT CODE 6064 / REVISION 2 / DWG SIZE D	G.O. LRH0006149-002 / DWG ML492S1W0602 / SHEET 1 OF 1



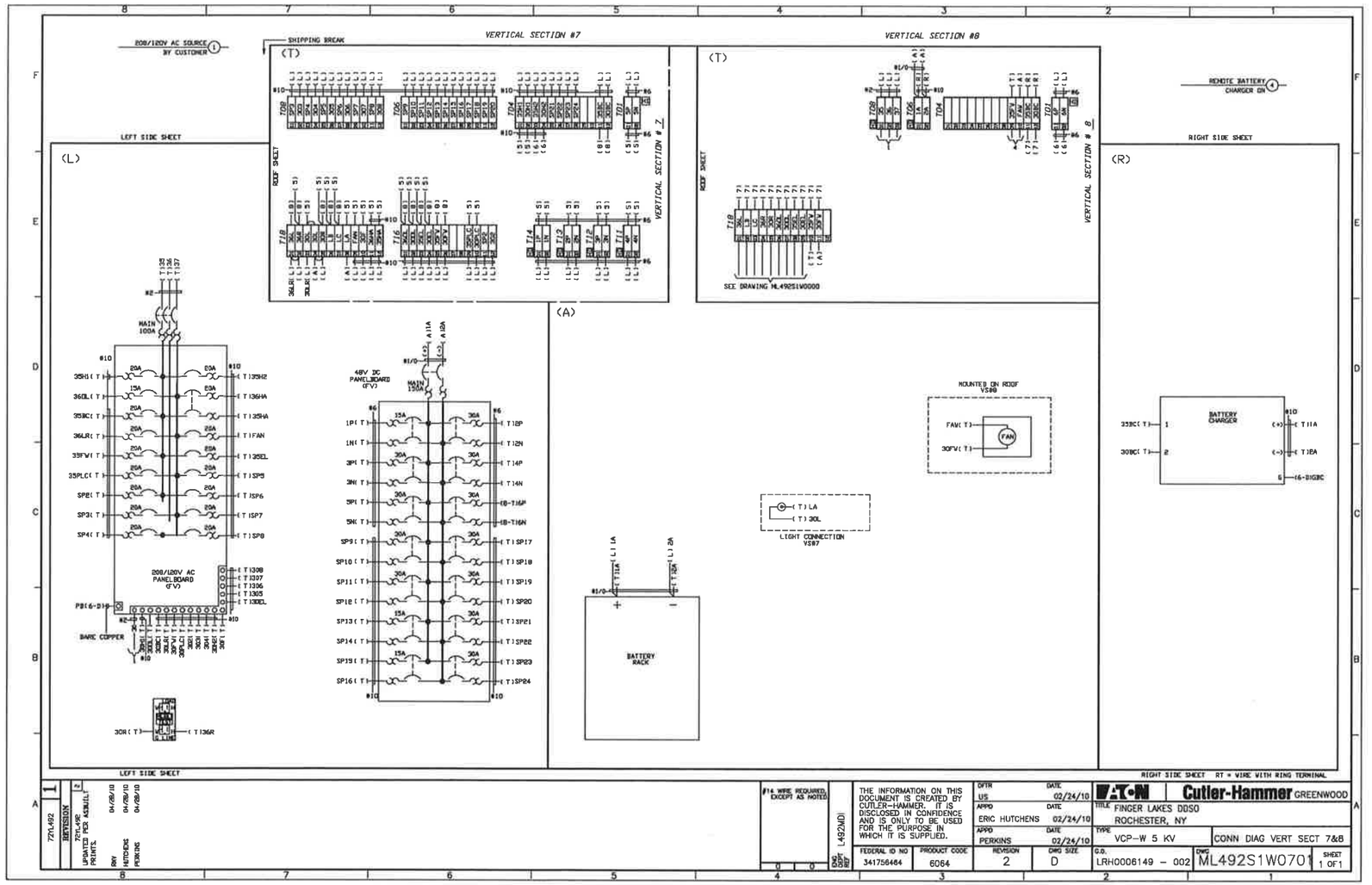
#14 WIRE REQUIRED, EXCEPT AS NOTED

THE INFORMATION ON THIS DOCUMENT IS CREATED BY CUTLER-HAMMER, IT IS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.

DFTR AAD	DATE 02/22/10	Cutler-Hammer GREENWOOD	
APPD ERIC HUTCHENS	DATE 02/22/10	TITLE FINGER LAKES DDSO ROCHESTER, NY	
APPD PERKINS	DATE 02/22/10	TYPE VCP-W 5 KV	CONN DIAG VERT SECT 6
FEDERAL ID NO 341756464	PRODUCT CODE 6064	REVISION 1	DWG SIZE D
G.O. LRH0006149-002	DWG ML492S1W0603	SHEET 1 OF 1	

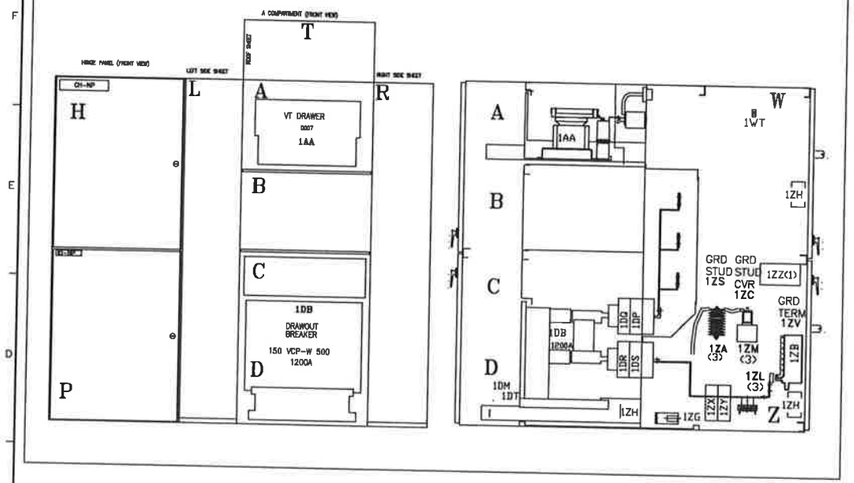
REVISION	DWG REV
1	0

L492MDI


208/120V AC SOURCE BY CUSTOMER (1)
SHIPPING BREAK
VERTICAL SECTION #7
VERTICAL SECTION #8
(T)
ROOF SHEET
VERTICAL SECTION # 7
VERTICAL SECTION # 8
SEE DRAWING ML492S1W0000
REMOTE BATTERY CHARGER ON (4)
LEFT SIDE SHEET
RIGHT SIDE SHEET
(L)
(R)
(A)
MAIN 100A
208/120V AC PANELBOARD (FV)
BARE COPPER
48V DC PANELBOARD (FV)
MAIN 150A
MOUNTED ON ROOF VS98
FAN
LIGHT CONNECTION VS97
BATTERY RACK
BATTERY CHARGER
LEFT SIDE SHEET
RIGHT SIDE SHEET RT = WIRE WITH RING TERMINAL

| | | |

SECTION AREAS (TYPICAL)



DRAWING NUMBERING

EXPLANATION OF DRAWING NUMBERING SCHEME

M L492 S1 E 01 01

TYPE OF GEAR
M – MEDIUM VOLTAGE SWITCHGEAR

SEQUENCE NUMBER
(4 CHARACTER ORDER NUMBER)

TYPE OF ENCLOSURE
S1 – SHELTERED AISLE SKV

NUMBER OF DRAWING FILE SHEET
01 – ALWAYS SHEET 1 OF 1. NO MULTIPLE SHEET DRAWINGS.

NUMBER OF DRAWING
01 – SEQUENCE NUMBER OF DRAWING FOR ALL, EXCEPT TYPE V & W
01 – SECTION NUMBER FOR TYPE V & W ONLY

TYPE OF DRAWING

D – PANELBOARD DRAWING
E – ELECTRICAL LEGEND DRAWING
F – FRONT VIEW (DOOR LAYOUT DETAILS)
G – COMPOSITE DRAWING (WHEN REQ'D)
H – POWERNET DEVICES
I – INTERNAL VIEW
K – KEY INTERLOCK
L – POWER FLOW (INCLUDES GENERAL DESCRIPTION)
N – UNIT SCHEDULE
O – END VIEW (ELEVATION DWG)
P – CUSTOMER BILL OF MATERIAL
Q – PLAN VIEW (TOP VIEW AND BASE VIEW)
S – SCHEMATIC DIAGRAM
T – THREE LINE DIAGRAM
V – SECTION VIEW (SECT SIDE VIEW DWG, NOT FOR CUSTOMER, SHOP ONLY)
W – WIRING DIAGRAM
Y – NAMEPLATE
Z – MISC (FOR QA FORM, NOTES)

NOTES TO CUSTOMER

PHASOR ROTATION IS 1-2-3 (EXCEPT AS NOTED ON THREE LINE DIAG)
ALL POWER CONNECTIONS ARE 1-2-3 FROM FRONT TO BACK, LEFT TO RIGHT, OR TOP TO BOTTOM, AS VIEWED FROM BREAKER DRAWOUT SIDE, REGARDLESS OF THE PHASOR ROTATION.

LOCATION OF APPARATUS,WIRES OR CABLES MUST NOT BE DETERMINED FROM DIAGRAM.

DIAGRAMS,DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD.

PANEL CONNECTIONS SHOWN AS VIEWED FROM REAR EXCEPT AS NOTED.

AUXILIARY SWITCH AND CONTACTS ARE SHOWN OPEN, OFF OR DE-ENERGIZED POSITION.

SB – SHORT CIRCUIT TERMINAL BLOCK
HD – HEAVY DUTY TERMINAL BLOCK
TP – THYRITE PROTECTOR
P – PULL FUSE
CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE EQUIPMENT.

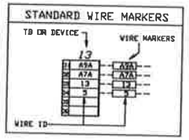
SHOP TO LEAVE WIRES LONG ENOUGH TO REACH ANY POINT ON SHORT CIRCUIT TERMINAL BLOCK

CUSTOMER CONNECTION POINTS
CUSTOMER CONDUIT
TERMINAL BLOCK CONNECTION
WIRE CONNECTION MADE
WIRE CONNECTION NOT MADE

CURRENT AND VOLTAGE TRANSFORMER SYMBOLS SHOW TERMINALS OF THE SAME INSTANTANEOUS POLARITY AS INDICATED AT THE RIGHT.

ALL PROGRAMMABLE CONTACTS IN CLOSE & TRIP CIRCUITS TO BE PROGRAMMED BY CUSTOMER.

STANDARD WIRE MARKERS



1	721.492	REVISION					

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DWG CLASS: L492MD1

DFTR WALLACE	DATE 11/11/09	EATON Cutler-Hammer GREENWOOD	
APPD ERIC HUTCHENS	DATE 11/11/09	TITLE FINGER LAKES DDSO ROCHESTER,NY	
APPD PERKINS	DATE 11/11/09	TYPE VCP-W 5 KV	ELECTRICAL LEGEND DRAWING
FEDERAL ID NO 341758484	PRODUCT CODE 6064	REVISION 1	DWG SIZE D
		G.O. LRH0006149-002	DWG ML492S1E0201
			SHEET 1 OF 1

DIAGRAM ABBREVIATIONS

A	AMMETER ; AMBER INDICATING LAMP
A/T	CURRENT TRANSDUCER
AC	ALTERNATING CURRENT
ACB	AIR CIRCUIT BREAKER
ARR	ADDRESSABLE RELAY
ARR	ARRESTOR
AS	AMMETER SWITCH
AUTO	AUTOMATIC
B	BLUE INDICATING LAMP
BAT	BATTERY
BAT CHR	BATTERY CHARGER
BKR	BREAKER
3P	3Y-PHASE 3W
C	CLOSE
CAP	CAPACITOR
CKT	CIRCUIT
CBN	CABINOR
CMPT	COMPARTMENT
CONN	CONNECTION
CPT	CONTROL POWER TRANSFORMER
CTD	CAPACITOR TRIP DEVICE
CS	CONTROL SWITCH
CT	CURRENT TRANSFORMER
CUST	CUSTOMER
DC	DIRECT CURRENT
DEV	DEVICE
DNS	DOWNSTREAM
DPF	DIFFERENTIAL
DIR	DIRECTION
DISC	DISCONNECT
DRV	DESTROP RLY (OVERCURRENT TRIP UNIT)
DPST	DOUBLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
CLKN	CLOCKWISE
EMCH	EMERGENCY
ENCL	ENCLOSURE
EQUIP	EQUIPMENT
ETM	ELAPSED TIME METER
EXC	EXCITATION EXCITOR
F	FREQUENCY METER
F/T	FREQUENCY TRANSDUCER
FB	FUSE BLOCK
FBN	FIXEDN
FLD	FIELD
FU	FUSE
FUT	FUTURE
FV	FRONT VIEW
G	GREEN INDICATING LAMP
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
GFR	GROUND FAULT RECEPTACLE
GOV	GOVERNOR
GRN	GROUND
HP	HORSEPOWER
HR	HEATER
HZ	CYCLES PER SECOND
INC	INCOMING
INST	INSTANTANEOUS
LMSR	LINE METERING & VOLTAGE PROTECTIVE
LMA	LINE METERING & VOLTAGE PROTECTIVE
LMS	LINE METERING SYSTEM
LMSP	LINE METERING & VOLTAGE PROTECTIVE
LMSGN	LINE METERING SYSTEM GENO
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
LA	LIGHTNING ARRESTOR
LH	LEFT HAND
LS	LIMIT SWITCH
M	MILLIAMP
LT	LIGHT
MAN	MANUAL
MECH	MECHANICAL ; MECHANICAL
MFG	MECHANISM
MFG	MANUFACTURE ; MANUFACTURING
MISC	MISCELLANEOUS
MPPS	MOTOR PROTECTION SYSTEM
MOC	MECH OPER CELL RV SHOWN FOR BREAKER IN OPER POSITION
MOT	MOTOR
MTR	MEASURE
NC	NORMALLY CLOSED
NEG	NEGATIVE
NEUT	NEUTRAL
NO	NORMALLY OPEN
NP	NAMEPLATE
O	OFF
OC	OVERCURRENT
OPER	OPERATION ; OPERATES
PB	PUSHBUTTON
PF	POWER FACTOR METER
PF/T	POWER FACTOR TRANSDUCER
PH	PHASE
PNL	PANEL
POS	POSITIVE
POT	POTENTIAL
PRN	LOGSMART
PS	POSITION SWITCH
PT	POTENTIAL TRANSFORMER
R	RED INDICATING LAMP
REAC	REACTOR
RECL	RECLOSING
RECP	RECEPTACLE
REM	REMOTE
RES	RESISTOR
REV	REVERSE ; REVISE
RH	RIGHT HAND
RHEO	RHEOSTAT
RTD	RESISTANCE TEMPERATURE DETECTOR
RV	REAR VIEW

DIAGRAM ABBREVIATIONS

SB	SHORT CIRCUITING TERMINAL BLOCK
SC	SPF AFTER CLOSE
SEC	SECONDARY
SH	SHEET ; SHUNT ; SHIELD
SO	SHOP ORDER
SP	SPARE
SPST	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
SR	SPRING RELEASE COIL
SS	SELECTOR SWITCH ; SYNCHRONIZING SWITCH
ST	SPF AFTER TRIP
STD	STANDARD
SUPV	SUPERVISORY
SW	SWITCH
SWGR	SWITCHGEAR
SYN	SYNCH
SYN	SYNCHRONISM ; SYNCHRONIZING ; SYNCHROSCOPE
T	TRIP
TC	TRIP COIL
TF	THERMITE PROTECTOR
TDSO	TIME DELAY DROPOUT
TDPU	TIME DELAY PICK UP
TEMP	TEMPERATURE
TOC	TRUCK OPER CELL SWITCH (SHOWN FOR BKR IN TEST POSITION)
TS	TEST SWITCH
UV	UNDERVOLTAGE
V	VOLTMETER ; VOLTAGE
V/T	VOLTAGE TRANSDUCER
VAR	VARMETER
VAR/T	VAR TRANSDUCER
VARH	VARHOUR METER
VCP	VACUUM CIRCUIT BREAKER
VS	VOLTMETER SWITCH ; VERTICAL SECTION
VT	VOLTAGE TRANSFORMER
V	VOLTMETER ; VIOLET INDICATING LAMP
W/T	WATT TRANSDUCER
WH	WATTHOUR METER
WHD	WATTHOUR METER DEMAND
W/VT	WATT / VAR TRANSDUCER
XDUCER	TRANSDUCER
XFMR	TRANSFORMER
Y	ANTI-PUMP RELAY

ANSI STANDARD DEVICE FUNCTION NUMBERS

DEVICE NUMBER	
1	MASTER ELEMENT
2	TIME DELAY STARTING OR CLOSING RELAY
3	MASTER CONTACTOR
4	STARTING CIRCUIT BREAKER
5	CONTROL POWER DISCONNECTING DEVICE
6	SYNCHRONOUS-SPEED DEVICE
7	SPEED OR FREQUENCY MATCHING DEVICE
8	STARTING-TO-RUNNING TRANSITION CONTACTOR
9	DISTANCE RELAY
10	TEMPERATURE CONTROL DEVICE
11	SYNCHRONIZING OR SYNCHRONISM-CHECK DEVICE
12	APPARATUS THERMAL DEVICE
13	UNDERVOLTAGE RELAY
14	ANNUNCIATOR RELAY
15	DIRECTIONAL POWER RELAY
16	POSITION SWITCH
17	UNDERCURRENT OR UNDERPOWER RELAY
18	REVERSE PROTECTIVE RELAY
19	FIELD RELAY
20	FIELD CIRCUIT BREAKER
21	RUNNING CIRCUIT BREAKER
22	MANUAL TRANSFER OR SELECTOR DEVICE
23	REVERSE PHASE OR PHASE BALANCE CURRENT RELAY
24	PHASE-SEQUENCE VOLTAGE RELAY
25	INCOMPLETE SEQUENCE RELAY
26	MACHINE OR TRANSFORMER THERMAL RELAY
27	INSTANTANEOUS OVERCURRENT OR RATE-OF-RISE RELAY
28	AC TIME OVERCURRENT RELAY
29	AC CIRCUIT BREAKER
30	EXCITOR OR DC GENERATOR RELAY
31	POWER FACTOR RELAY
32	FIELD APPLICATION RELAY
33	OVERVOLTAGE RELAY
34	VOLTAGE OR CURRENT BALANCE RELAY
35	TIME-DELAY STOPPING OR OPENING RELAY
36	PRECISION SWITCH
37	GROUND DETECTOR RELAY
38	GOVERNOR
39	AC DIRECTIONAL OVERCURRENT RELAY
40	PERMISSIVE CONTROL DEVICE
41	RHEOSTAT
42	ALARM RELAY
43	PHASE-ANGLE MEASURING OR OUT-OF-STEP PROTECTIVE RELAY
44	AC RECLOSING RELAY
45	FREQUENCY RELAY
46	AUTOMATIC SELECTIVE CONTROL OR TRANSFER RELAY
47	CARRIER OR PILOT-WIRE RECEIVER RELAY
48	LOCKOUT RELAY
49	DIFFERENTIAL PROTECTIVE RELAY
50	REGULATING DEVICE
51	TRIPPING OR TRIP-FREE RELAY
52	USED ONLY FOR SPECIFIC APPLICATIONS
53	IN INDIVIDUAL INSTALLATIONS WHERE
54	NONE OF THE ASSIGNED NUMBERS
55	FUNCTIONS FROM 1 TO 94 ARE
56	SUITABLE
52CC / a	CLOSES WHEN CIRCUIT BREAKER IS OPEN
52CC / b	OPENS WHEN CIRCUIT BREAKER IS CLOSED
52TC / a	OPENS WHEN CIRCUIT BREAKER NOT IN CONNECTED POSITION
52TC / b	CLOSES WHEN CIRCUIT BREAKER NOT IN CONNECTED POSITION
a	CIRCUIT BREAKER AUXILIARY SWITCH CONTACT OPEN WHEN BREAKER IS OPEN
b	CIRCUIT BREAKER AUXILIARY SWITCH CONTACT CLOSED WHEN BREAKER IS OPEN

SYMBOLS

FUSE
DUMMY FUSE
OPEN CONTACT
CLOSED CONTACT
NORMALLY OPEN BREAKER CONTACT
NORMALLY CLOSED BREAKER CONTACT
MOLDED CASE BREAKER
SWITCH
THYRITE
OPEN PUSHBUTTON
CLOSED PUSHBUTTON
COIL
COIL
LIGHT
PUSH-TO-TEST INDICATING LIGHT
LIGHT
RESISTOR
INDICATING LIGHT
ADJUSTABLE RESISTOR
CAPACITOR
DIODE
DUPLEX RECEPTACLE
GROUND INTERRUPTER
DC RECEPTACLE
3-WAY SWITCH
SINGLE POLE SWITCH
SWITCH
GROUND CONNECTION
DISCONNECT
HORN
TERMINAL POINT
BATTERY
52 100A CIRCUIT BREAKER
THREE LINE
52 100A CIRCUIT BREAKER
ONE LINE
CURRENT TRANSFORMER
MULTI-RATIO CURRENT TRANSFORMER
X1 X2 X3 X4 X5 X6 X7 X8 X9 X10
ZERO SEQUENCE TRANSFORMER
TRANSFORMER (VOLTAGE/CURRENT)
VOLTAGE TRANSFORMER
AUX CURRENT TRANSFORMER
ZERC
REMOTE CIRCUIT
ARRESTOR
CAPACITOR
SSP
SECONDARY SURGE PROTECTOR

1	7271.462	REVISION					

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L492MD1

DRTR	DATE		
WALLACE	11/11/09		
APPD	DATE	DWG	
ERIC HUTCHENS	11/11/09		
APPD	DATE		
PERKINS	11/11/09		
FEDERAL ID NO	PRODUCT CODE	REVISION	DWG SIZE
341756464	6064	1	D

EATON Cutler-Hammer GREENWOOD

TITLE: FINGER LAKES DDSO ROCHESTER,NY

TYPE: VCP-W 5 KV — ELECTRICAL LEGEND DRAWING

G.O.: LRH0006149-002

DWG: ML492S1E0301

SHEET: 1 OF 1

Q/A FORM

FOR APPROVAL

Drawings are intended to be in accordance with applicable purchase order specifications. Comments concerning errors are solicited. Features not covered by the purchase order specifications will be in accordance with Cutler-Hammer standard design practices. Purchaser's changes will require extra engineering, drafting or modification of material and construction for which additional charges will be made. These changes may also extend shipment.

To facilitate engineering and expedite manufacturing, any changes and/or corrections should be marked on drawings. These drawings should also be marked with a cross reference to pertinent revisions if customer is submitting revised drawings and/or specifications.

QUESTIONS, NOTES AND COMMENTS	**CUSTOMER ANSWERS AND COMMENTS**
CUSTOMER TO ADVISE HOW MANUAL OPERATION MODE OF BREAKERS WILL BE PERFORMED SO THE PROPER INTERLOCKING CONTACTS CAN BE PROVIDED.	
RELAY FINAL COORDINATION SETTINGS ARE NOT PROVIDED BY THE FACTORY. THESE SETTINGS WILL HAVE TO BE DONE IN THE FIELD BY OTHERS.	
SPEC SECTION 261313 SECTION 2.7A 11. – PLEASE ADVISE HOW ALARM CONTACTS ARE BEING USED OR WIRED ?	
SPEC SECTION 261313 SECTION 2.10 A.4 – GENERATOR INTERFACE DETAILS AND COMPONENTS TO BE MOUNTED WITHIN SWITCHGEAR DETAILS ARE MISSING? PLEASE ADVISE.	
SPEC SECTION 263215 SECTION 2.13- PLEASE PROVIDE DETAILS ON WHAT PROVISIONS SHOULD BE PROVIDED FOR INTERFACING WITH BUILDING	

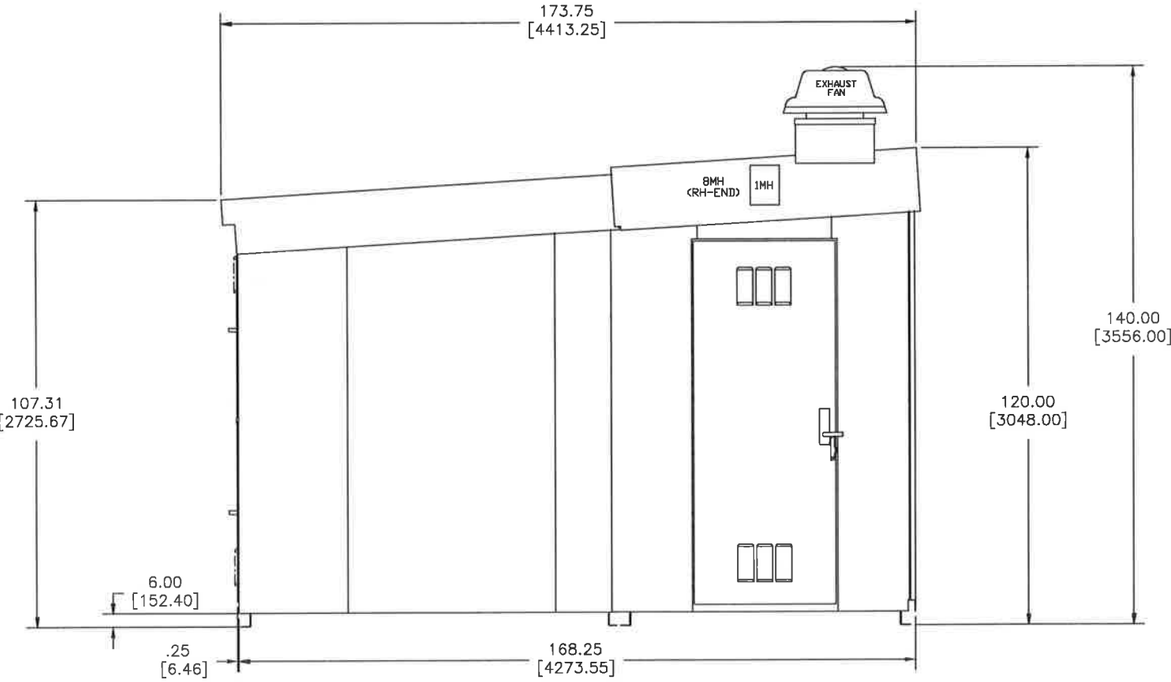
	HUTCHENS	EATON Cutler-Hammer	GREENWOOD
	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY CUTLER-HAMMER. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.	FINGER LAKES DDSO 2271816-00	ROCHESTER,NY
		FILENAME : **ML492S1ZQ101**	
		GO. : LRH0006149-002	ITEM: 002 / SHEET 1
		REV: 1	DESIGNATION: QA FORM

Q/A FORM

~~MANAGEMENT SYSTEM.~~	
SPEC263215 SECTION 1.7- THERE ARE SEVERAL MENTIONED SELECTOR SWITCH MODES THAT EATON EXPECTS TO BE PROGRAMMED WITHIN THE PLC/HMI SOFTWARE. EATON IS PROVIDING THE AUTO/MANUAL MODE SELECTOR SWITCH ON FRONT OF SWITCHGEAR ONLY.	

	HUTCHENS	EATON | Cutler-Hammer		GREENWOOD
	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY CUTLER-HAMMER. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.	FINGER LAKES DDSO 2271816-00	ROCHESTER,NY	
		FILENAME : **ML492S1ZQ101**		
		GO. : LRH0006149-002	ITEM: 002	SHEET 2
		REV: 1	DESIGNATION: QA FORM	

END VIEW



L.H. ELEVATION

REVISION			
1	72X-492		
2	72X492 LRH0006148 -	UPDATED FOR MFG	SMS 2/17/2010

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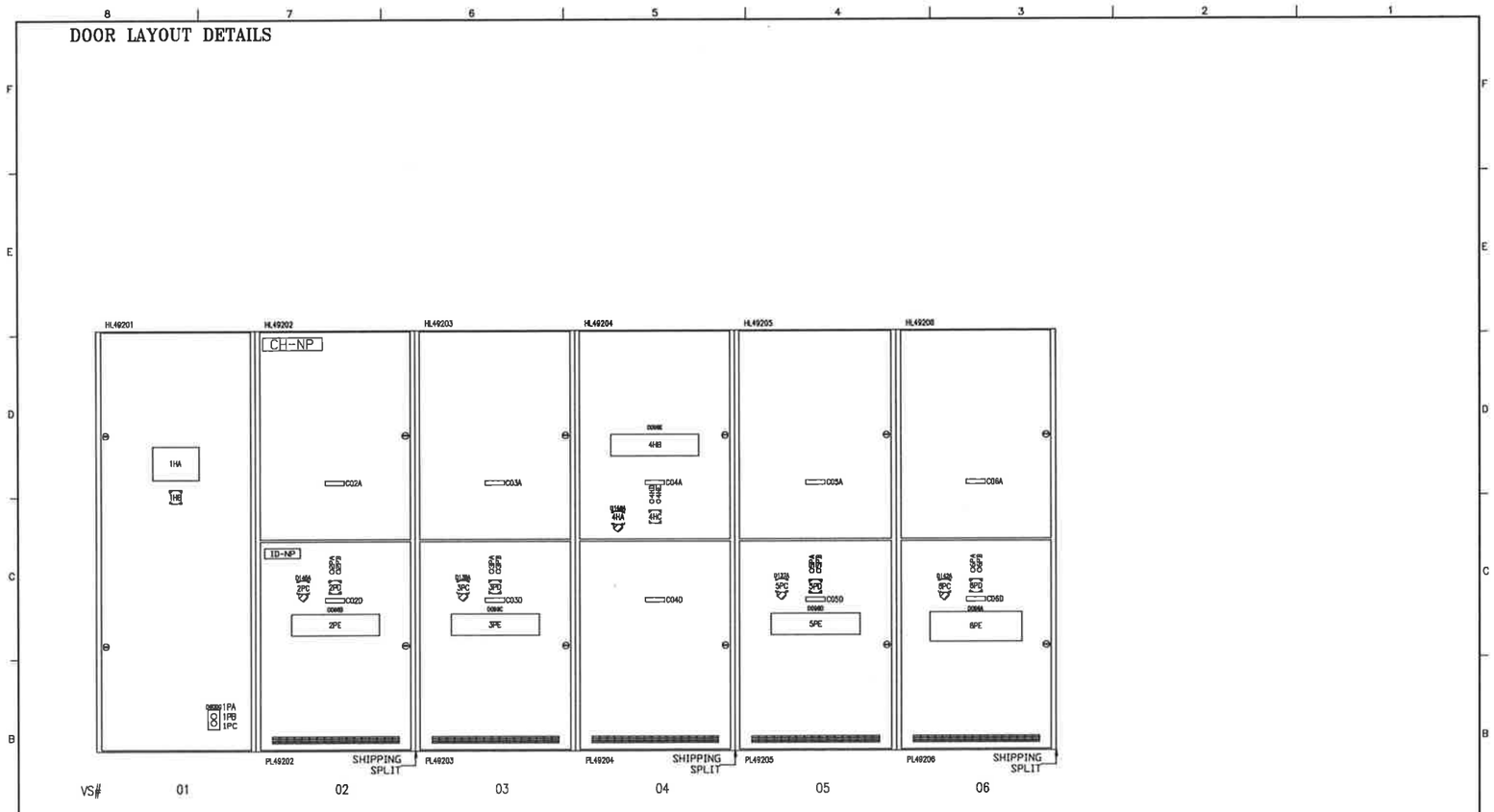
L492MDI

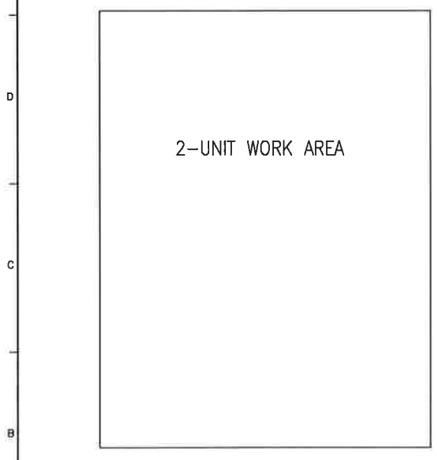
DFTR ROBERTSON	DATE 11/16/2009	Eaton Cutler-Hammer GREENWOOD	
APPD ERIC HUTCHENS	DATE 11/18/2009	TITLE FINGER LAKES DDSO ROCHESTER,NY	
APPD PERKINS	DATE 11/19/2009	TYPE VCP-W 5 KV	END VIEW
FEDERAL ID NO 341756464	PRODUCT CODE 6064	REVISION 2	DWG SIZE B
C.O. LRH0006149 - 002	DWG MI492S100101	SHEET 1 OF 1	

DOOR LAYOUT DETAILS



721L492	1	2	771L492 LRH0006149 - 002 UPGRADED FOR MP	SMS	2/17/2010			L492CMCH	THE INFORMATION ON THIS DOCUMENT IS CREATED BY CUTLER-HAMMER. IT IS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.	DRTR: ROBERTSON DATE: 11/19/2009 APPD: ERIC HUTCHENS DATE: 11/19/2009 APPD: PERKINS DATE: 11/19/2009	EATON Cutler-Hammer GREENWOOD TITLE: FINGER LAKES DDSO ROCHESTER,NY TYPE: VCP-W 5 KV — FRONT VIEW
										FEDERAL ID NO: 341758484 — PRODUCT CODE: 6064 — REVISION: 2 — DWG SIZE: D — C.O.: LRH0006149 - 002 — DWG: ML492S1F0101 — SHEET: 1 OF 1	

DOOR LAYOUT DETAILS



| | | |

UNIT SCHEDULE

ID		DEVICE INFORMATION												TERMINATIONS								
SECTION NUMBER	DEVICE LOCATION	CIRCUIT NAMEPLATE	DEVICE TYPE	DEVICE SIZE	INTERRUPTING RATING AT MAX RATED VOLTAGE	SPRING RELEASE (CLOSE COIL)	SHUNT TRIP (OPEN COIL)	DEVICE MOTOR OPERATOR	AUX SWITCH	UVR/2ND SHUNT TRIP(GST)	TRUCK OPERTED CELL SWITCH (TOC)	MECHANISM OPERTED CELL SWITCH (MOC)	KEY INTLK	CONTROL CABLE ENTRY DIRECTION	POWER CABLE ENTRY DIRECTION	TYPE (SEE NOTES)	POWER CABLE SIZE	# PER PHASE	GND SIZE	# PER GND	ADDITIONAL ACCESSORIES, FEATURES, & NOTES	DETAILED DRAWING REFERENCE OR CATALOG NUMBER
02	A	M1 LINE VTS	2PT-LL											T/B			-					
02	D	MAIN BREAKER M1	50 VCP-W 250 5 CYCLE	1200A	29 KA	48VDC	48VDC	48VDC	2A & 4B		4A & 5B	5A & 4B		T/B	BOTTOM	C	500 KCM	1				

CIRCUIT NP LINE 1
CIRCUIT NP LINE 2
CIRCUIT NP LINE 3

1.00

4.32

WHITE WITH BLACK CHARACTERS
0.20 INCH HIGH CHARACTERS
SECURED VIA SELF TAPPING SCREWS

	2A
	2D

NOTES:
TERMINATIONS
N = NEMA DRILLING ONLY
M = MECHANICAL CU/AL
C = COMPRESSION TYPE, 2 HOLE MOUNTING, COPPER
B = NON SEGREGATED PHASE BUS

INTERRUPTING RATING
RMS SYMMETRICAL INTERRUPTING AT MAXIMUM RATED VOLTAGE OF 4.76 KV WITH K=1.24

721L492	1	2	2/17/2010
REVISION		721L492 LRH0006149 - 002	ISSUED FOR MFG
SMS			

L492M01

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DFTR ROBERTSON	DATE 11/19/2009
APPD ERIC HUTCHENS	DATE 11/19/2009
APPD PERKINS	DATE 11/19/2009

FEDERAL ID NO 341758484 | PRODUCT CODE 6084 | REVISION 2 | DWG SIZE D

EATON Cutler-Hammer GREENWOOD

TITLE FINGER LAKES DDSO
ROCHESTER,NY

TYPE VCP-W 5 KV

UNIT SCHEDULE

G.O. LRH0006149 - 002

DWG ML492S1N0101

SHEET 1 OF 1

UNIT SCHEDULE

ID		DEVICE INFORMATION												TERMINATIONS								
SECTION NUMBER	DEVICE LOCATION	CIRCUIT NAMEPLATE	DEVICE TYPE	DEVICE SIZE	INTERRUPTING RATING AT MAX RATED VOLTAGE	SPRING RELEASE (CLOSE COIL)	SHUNT TRIP (OPEN COIL)	DEVICE MOTOR OPERATOR	AUX SWITCH	UVR/2ND SHUNT TRIP(2ST)	TRUCK OPERTED CELL SWITCH (TOC)	MECHANISM OPERTED CELL SWITCH (MOC)	KEY INTLK	CONTROL CABLE ENTRY DIRECTION	POWER CABLE ENTRY DIRECTION	TYPE (SEE NOTES)	POWER CABLE SIZE	# PER PHASE	GND SIZE	# PER GND	ADDITIONAL ACCESSORIES, FEATURES, & NOTES	DETAILED DRAWING REFERENCE OR CATALOG NUMBER
03	-	BUS VTS	-											T/B			-					
03	D	FEEDER BREAKER F1	50 VCP-W 250 5 CYCLE	1200A	29 KA	48VDC	48VDC	48VDC	2A & 4B		4A & 5B	5A & 4B		T/B	BOTTOM	C	500 KCM	1				
04	A	TIE BREAKER T1	50 VCP-W 250 5 CYCLE	1200A	29 KA	48VDC	48VDC	48VDC	2A & 4B		4A & 5B	5A & 4B		T/B			-					
04	D	BREAKER STORAGE	BREAKER STORAGE														-					

CIRCUIT NP LINE 1
CIRCUIT NP LINE 2
CIRCUIT NP LINE 3
1.00
4.32

WHITE WITH BLACK CHARACTERS
0.20 INCH HIGH CHARACTERS
SECURED VIA SELF TAPPING SCREWS

3A	4A
3D	4D

NOTES:
TERMINATIONS
N = NEMA DRILLING ONLY
M = MECHANICAL CU/AL
C = COMPRESSION TYPE, 2 HOLE MOUNTING, COPPER
B = NON SEGREGATED PHASE BUS

INTERRUPTING RATING
RMS SYMMETRICAL INTERRUPTING AT MAXIMUM RATED VOLTAGE OF 4.76 KV WITH K=1.24

REVISION	DESCRIPTION	DWG	DATE	DRAWN
1	721L492			
2	721L492 LRH0008149 - ISSUED FOR MFG	DD	2/17/2010	SMS

L492MDI

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DRWN ROBERTSON	DATE 11/19/2009	ETON Cutler-Hammer GREENWOOD	
APPD ERIC HUTCHENS	DATE 11/19/2009	TITLE FINGER LAKES DDSO ROCHESTER,NY	
APPD PERKINS	DATE 11/19/2009	TYPE VCP-W 5 KV	UNIT SCHEDULE
FEDERAL ID NO 341756464	PRODUCT CODE 6064	REVISION 2	DWG SIZE D
C.O. LRH0008149 - 002	DWG ML492S1N0201	SHEET 1 OF 1	

UNIT SCHEDULE

ID		DEVICE INFORMATION												TERMINATIONS								
SECTION NUMBER	DEVICE LOCATION	CIRCUIT NAMEPLATE	DEVICE TYPE	DEVICE SIZE	INTERRUPTING RATING AT MAX RATED VOLTAGE	SPRING RELEASE (CLOSE COIL)	SHUNT TRIP (OPEN COIL)	DEVICE MOTOR OPERATOR	AUX SWITCH	UVR/2ND SHUNT TRIP(2ST)	TRUCK OPERTED CELL SWITCH (TOC)	MECHANISM OPERTED CELL SWITCH (MOC)	KEY INTLK	CONTROL CABLE ENTRY DIRECTION	POWER CABLE ENTRY DIRECTION	TYPE (SEE NOTES)	POWER CABLE SIZE	# PER PHASE	GND SIZE	# PER GND	ADDITIONAL ACCESSORIES, FEATURES, & NOTES	DETAILED DRAWING REFERENCE OR CATALOG NUMBER
05	B	BUS VT'S	2PT-LL											T/B			-					
05	D	FEEDER BREAKER F2	50 VCP-W 250 5 CYCLE	1200A	29 KA	48VDC	48VDC	48VDC	2A & 4B		4A & 5B	5A & 4B		T/B	BOTTOM	C	500 KCM	1				
08	A	G1 LINE VTS	2PT-LL											T/B			-					
08	D	GENERATOR BREAKER G1	50 VCP-W 250 5 CYCLE	1200A	29 KA	48VDC	48VDC	48VDC	2A & 4B		4A & 5B	5A & 4B		T/B	BOTTOM	C	500 KCM	1				

CIRCUIT NP LINE 1
CIRCUIT NP LINE 2
CIRCUIT NP LINE 3
1.00
4.32

WHITE WITH BLACK CHARACTERS
0.20 INCH HIGH CHARACTERS
SECURED VIA SELF TAPPING SCREWS

5B	6A
5D	6D

NOTES:
TERMINATIONS
N = NEMA DRILLING ONLY
M = MECHANICAL CU/AL
C = COMPRESSION TYPE, 2 HOLE MOUNTING, COPPER
B = NON SEGREGATED PHASE BUS

INTERRUPTING RATING
RMS SYMMETRICAL INTERRUPTING AT MAXIMUM RATED VOLTAGE OF 4.76 KV WITH K=1.24

	REVISION		
721L492	1		
	2	721L492 LRH0006149 - 002	UPDATED PER MFG 2/17/2010 SMS
	3	721L492 LRH0006149 - 002	UPDATED PER CHK 2 3/10/2010 SMS

DWG REF: L492M01

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DRTR: ROBERTSON	DATE: 11/19/2009	EATON Cutler-Hammer GREENWOOD	
APPD: ERIC HUTCHENS	DATE: 11/19/2009	TITLE: FINGER LAKES DDSO ROCHESTER,NY	
APPD: PERKINS	DATE: 11/19/2009	TYPE: VCP-W 5 KV	UNIT SCHEDULE
FEDERAL ID NO: 341758464	PRODUCT CODE: 6086	REVISION: 3	DWG SIZE: D
C.O.: LRH0006149 - 002	DWG: ML492S1N0301	SHEET: 1 OF 1	

UNIT SCHEDULE

ID		DEVICE INFORMATION												TERMINATIONS								
SECTION NUMBER	DEVICE LOCATION	CIRCUIT NAMEPLATE	DEVICE TYPE	DEVICE SIZE	INTERRUPTING RATING AT MAX RATED VOLTAGE	SPRING RELEASE (CLOSE COIL)	SHUNT TRIP (OPEN COIL)	DEVICE MOTOR OPERATOR	AUX SWITCH	UVR/GND SHUNT TRIP<2ST>	TRUCK OPERTED CELL SWITCH (TOC)	MECHANISM OPERTED CELL SWITCH (MOC)	KEY INTLK	CONTROL CABLE ENTRY DIRECTION	POWER CABLE ENTRY DIRECTION	TYPE (SEE NOTES)	POWER CABLE SIZE	# PER PHASE	GND SIZE	# PER GND	ADDITIONAL ACCESSORIES, FEATURES, & NOTES	DETAILED DRAWING REFERENCE OR CATALOG NUMBER
07	A		WORK AREA											T/B			-					
07	B		WORK AREA											T/B			-					
07	C		WORK AREA											T/B			-					
07	D		WORK AREA											T/B			-					
08	A		WORK AREA											T/B			-					
08	B		WORK AREA											T/B			-					
08	C		WORK AREA											T/B			-					
08	D		WORK AREA											T/B			-					

CIRCUIT NP LINE 1	
O CIRCUIT NP LINE 2 O	1.00
CIRCUIT NP LINE 3	
4.32	

7A	8A
7B	8B
7C	8C
7D	8D

WHITE WITH BLACK CHARACTERS
0.20 INCH HIGH CHARACTERS
SECURED VIA SELF TAPPING SCREWS

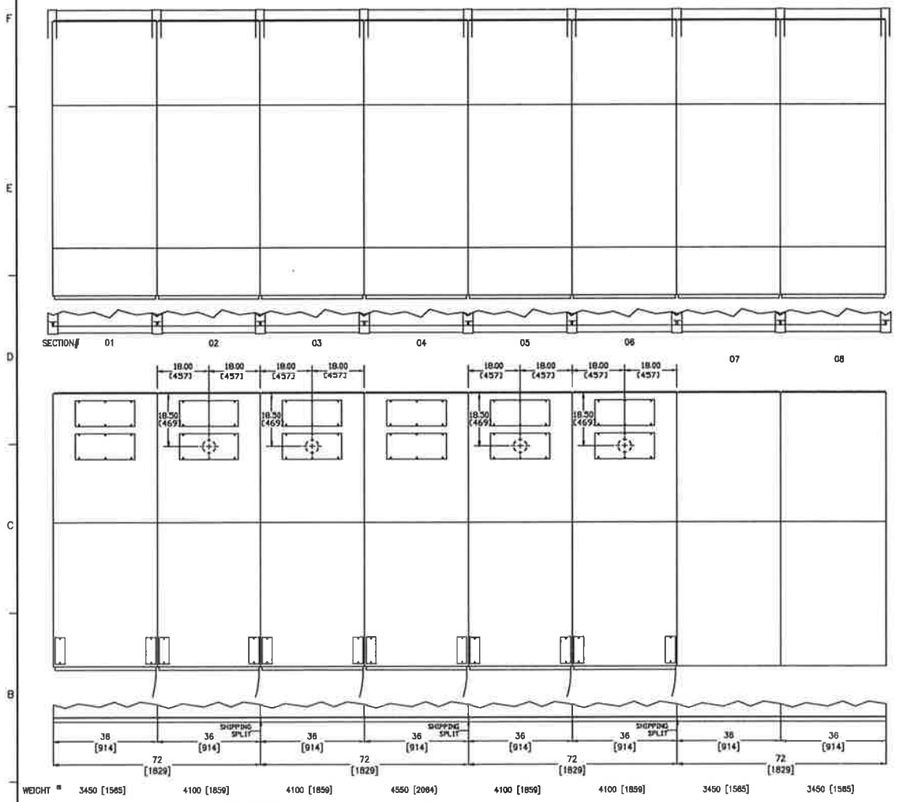
NOTES:
TERMINATIONS
N = NEMA DRILLING ONLY
M = MECHANICAL CU/AL
C = COMPRESSION TYPE, 2 HOLE MOUNTING, COPPER
B = NON SEGREGATED PHASE BUS

INTERRUPTING RATING
RMS SYMMETRICAL INTERRUPTING AT MAXIMUM RATED VOLTAGE OF 4.76 KV WITH K=1.24

721L492	REVISION 1	2	721L492 LRH0005149 - 002 UPGRADED FOR MFG	SMS	2/17/2010	L492M01	THE INFORMATION ON THIS DOCUMENT IS CREATED BY CUTLER-HAMMER. IT IS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.	DFTR ROBERTSON DATE 11/19/2009	APPD ERIC HUTCHENS DATE 11/19/2009	APPD PERKINS DATE 11/19/2009	EATON Cutler-Hammer GREENWOOD
								FEDERAL ID NO 341758464	PRODUCT CODE 6064	REVISION 2	DWG SIZE D

TITLE FINGER LAKES DDSO ROCHESTER,NY
TYPE VCP-W 5 KV
UNIT SCHEDULE
G.O. LRH0005149 - 002
DWG ML492S1N0401
SHEET 1 OF 1

TOP VIEW



FOR VS #7, SEE DRAWING ML492S1Q0201 FOR DETAILS ON LOCATION OF PANELBOARDS.

BASE VIEW

FOR TYPICAL BASE PLAN SEE DRAWING 1C15914
* DOES NOT INCLUDE BREAKER WEIGHT

721L492	REVISION 1	2	721L492 LRH0006149 - 002 UPGRADED FOR MFG SMS 2/17/2010

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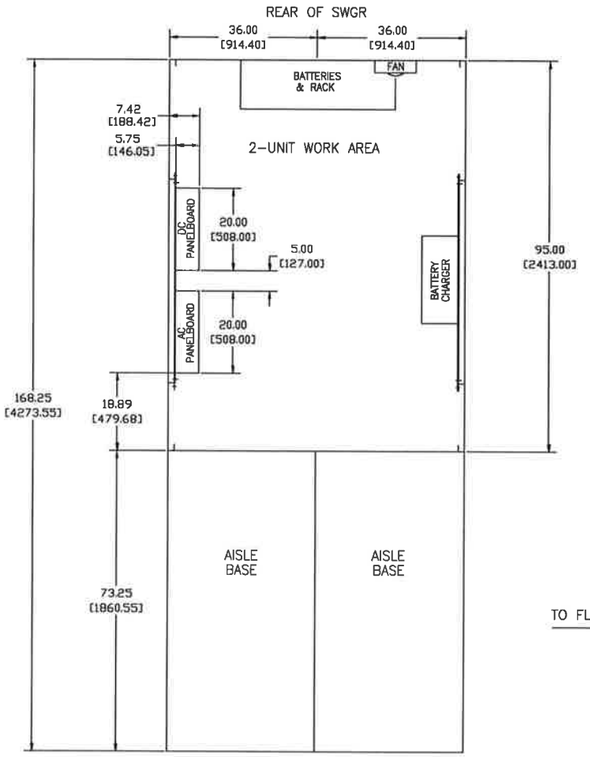
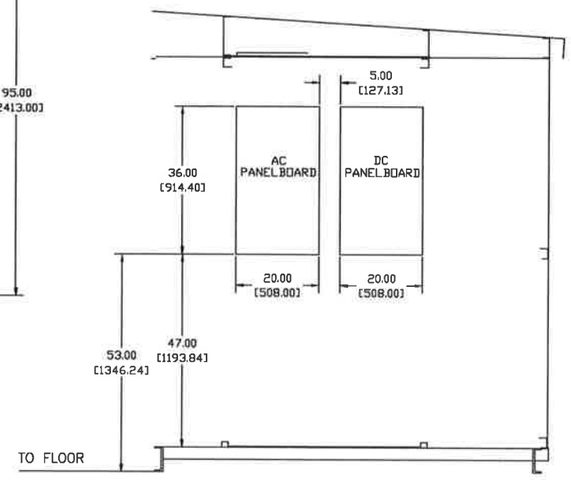
L492MCH

DFTR ROBERTSON	DATE 11/19/2009	EATON Cutler-Hammer GREENWOOD	
APPD ERIC HUTCHENS	DATE 11/19/2009	TITLE FINGER LAKES DDSO ROCHESTER,NY	
APPD PERKINS	DATE 11/19/2009	TYPE VCP-W 5 KV	PLAN VIEW
FEDERAL ID NO 341756484	PRODUCT CODE 6064	REVISION 2	DWG SIZE D
C.O. LRH0006149 - 002	DWG ML492S1Q0101	SHEET 1 OF 1	

TOP VIEW

NOTE TO CUST/CONTRACTOR
CELL BASES THAT WORK AREAS SITS ON DO NOT HAVE ANY CUTOUTS FOR LV/HV CONDUITS. FIELD WILL NEED TO MODIFY PER PANELBOARDS LOCATED PER THIS DRAWING.





FOR TYPICAL BASE PLAN SEE DRAWING 1C15914

REVISION			
1	721L492		
2	721L492 - 002	UPGRADED FOR MFG	2/17/2010 SMS

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DFTR ROBERTSON	DATE 11/19/2009	EATON Cutler-Hammer GREENWOOD	
APPD ERIC HUTCHENS	DATE 11/18/2009	TITLE FINGER LAKES DDSO ROCHESTER,NY	
APPD PERKINS	DATE 11/19/2009	TYPE VCP-W 5 KV	PLAN VIEW
FEDERAL ID NO 341758484	PRODUCT CODE 6084	REVISION 2	DWG SIZE D
G.O. LRH0006149 - 002	DWG ML492S1Q0201	SHEET 1 OF 1	

L492MOI

VCP-W BREAKER DC INTERNAL DIAGRAM

HINGED PANEL (RV) TEST CABINET (FV)

LOCK-OUT RELAY

BREAKER CONTROL

AUTO MAN

SEL 351

SEL-3006

GEN G1 PROT RLY

720L462	1
REVISION	2
720L496	
REVISED PER MARCO	
US	05/19/10
DJC HUTCHINS	05/19/10
PDR MS	05/19/10

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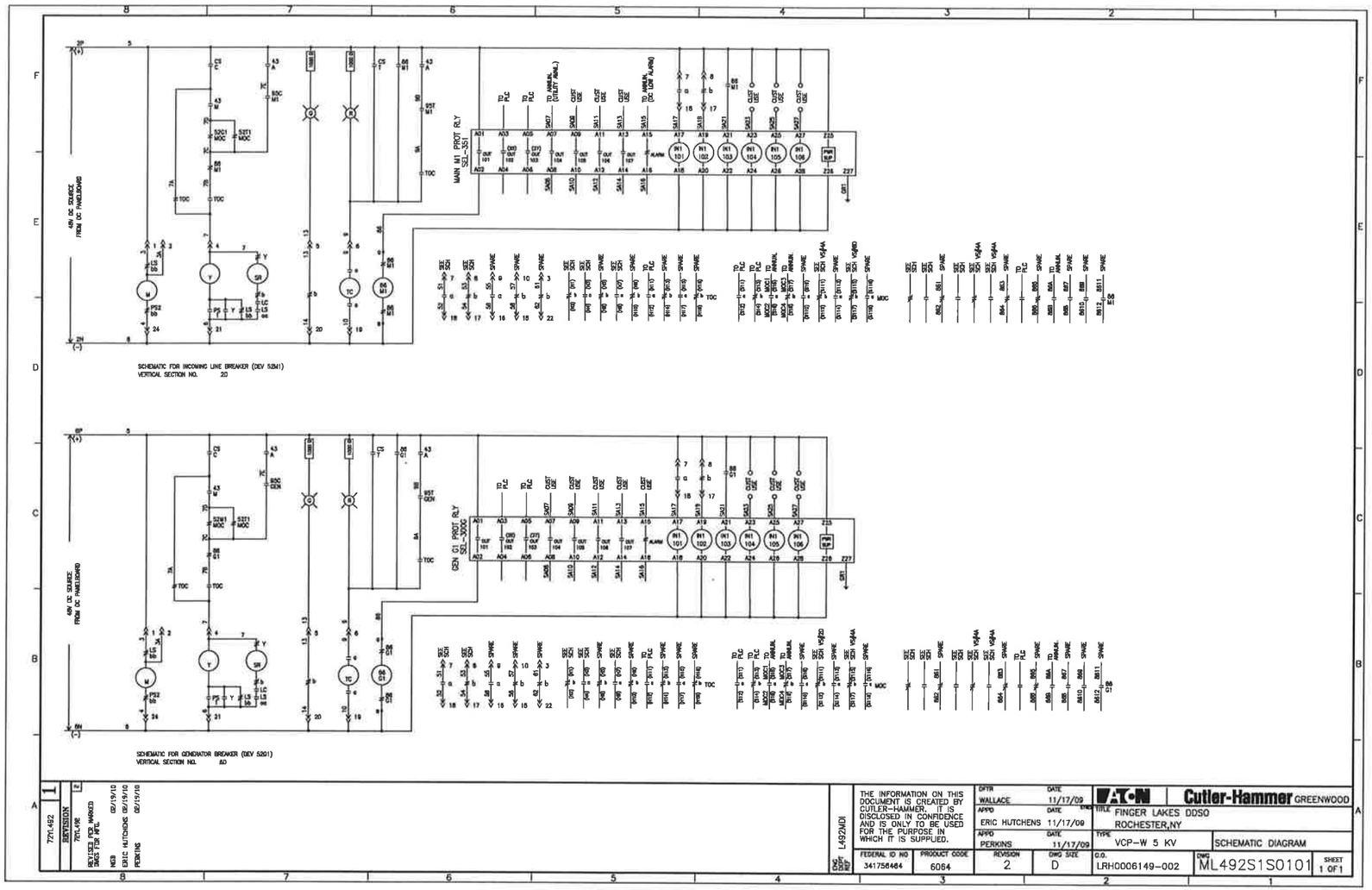
L492MDI

DWN WALLACE	DATE 11/11/09	EATON Cutler-Hammer GREENWOOD	
APPD ERIC HUTCHENS	DATE 11/11/09	TITLE FINGER LAKES DDSO ROCHESTER,NY	
APPD PERKINS	DATE 11/11/09	TYPE VCP-W 5 KV	ELECTRICAL LEGEND DRAWING
FEDERAL ID NO 341756484	PRODUCT CODE 6064	REVISION 2	DWG SIZE D
G.O. LRH0006149-002	DWG ML492S1E0101	SHEET 1 OF 1	



REVISIONS			
7271.492			
7271.492	REVISED PER MARKED SHEETS FOR NFC.	MEB	02/19/10
		ERIC HUTCHINS	02/19/10
		PERKINS	02/19/10

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DWG CODE REF: L492MD1

DFTR	DATE
WALLACE	11/17/09
APPD	DATE
ERIC HUTCHENS	11/17/09
APPD	DATE
PERKINS	11/17/09

FEDERAL ID NO	PRODUCT CODE	REVISION	DWG SIZE
341756464	6064	2	D

EATON Cutler-Hammer GREENWOOD

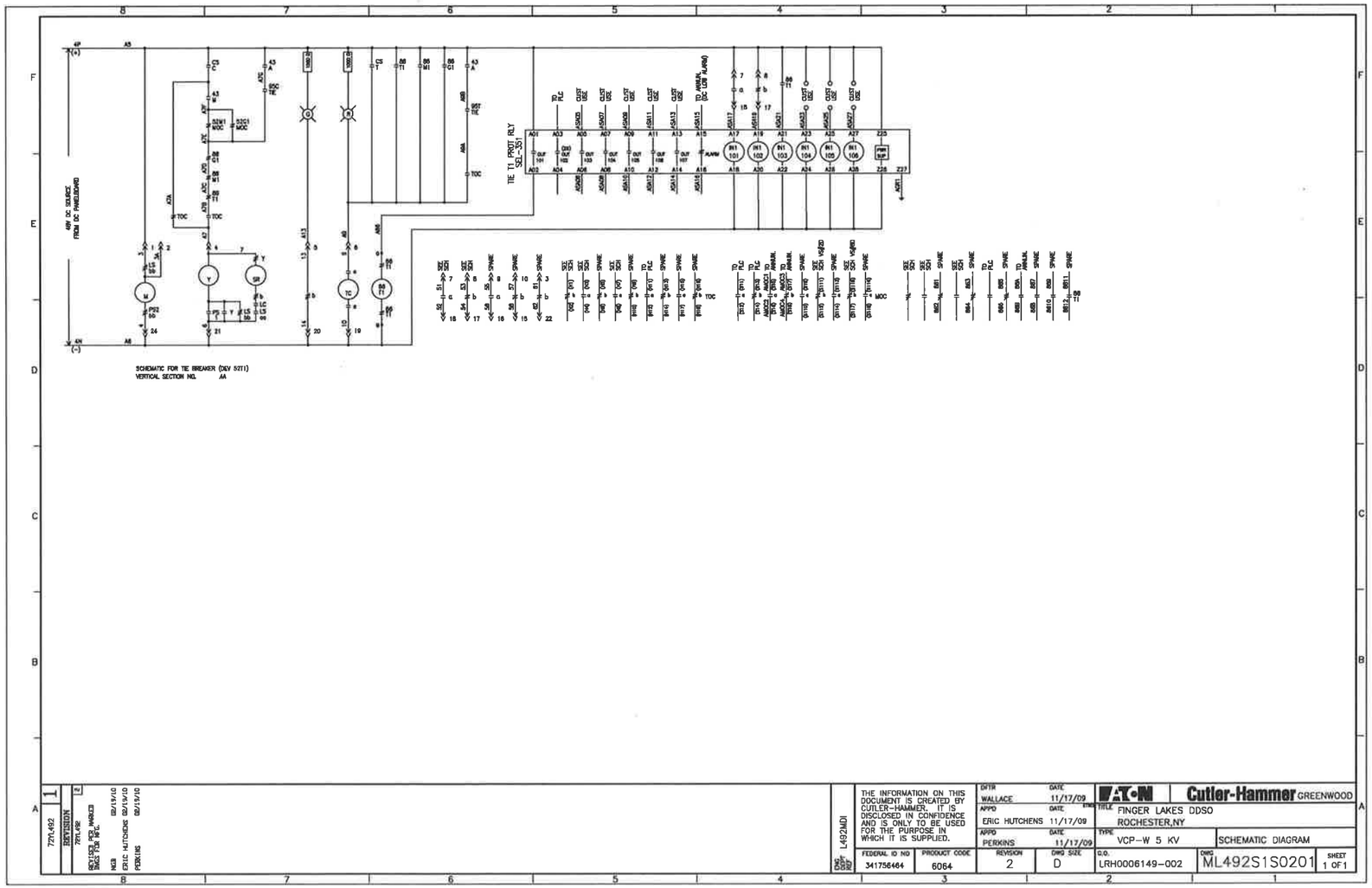
TITLE: FINGER LAKES DDSO ROCHESTER,NY

TYPE: VCP-W 5 KV — SCHEMATIC DIAGRAM

C.O.: LRH0006149-002

DWG: ML492S1S0101

SHEET: 1 OF 1



72TL492	1	72TL492 REVISION	2	RELEASED PER MARCO DRGS FOR MFG	MCB	ERIC HUTCHENS	02/19/10
					MCB	ERIC HUTCHENS	02/19/10
					PERKINS		02/19/10

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DWG CODED: L492MDI

DRTR	DATE
WALLACE	11/17/09
APPD	DATE
ERIC HUTCHENS	11/17/09
APPD	DATE
PERKINS	11/17/09

FEDERAL ID NO	PRODUCT CODE	REVISION	DWG SIZE
341756464	6064	2	D

EATON Cutler-Hammer GREENWOOD

TITLE: FINGER LAKES DDSO
ROCHESTER,NY

TYPE: VCP-W 5 KV — SCHEMATIC DIAGRAM

Q.O.	DWG	SHEET
LRH0006149-002	ML492S1S0201	1 OF 1

REVISION		
72TL492	[2]	
72TL492 REVISED PER MARKED SHEETS FOR REV.	MDB	02/11/10
	ERIC HUTCHENS	02/11/10
	PERKINS	02/15/10

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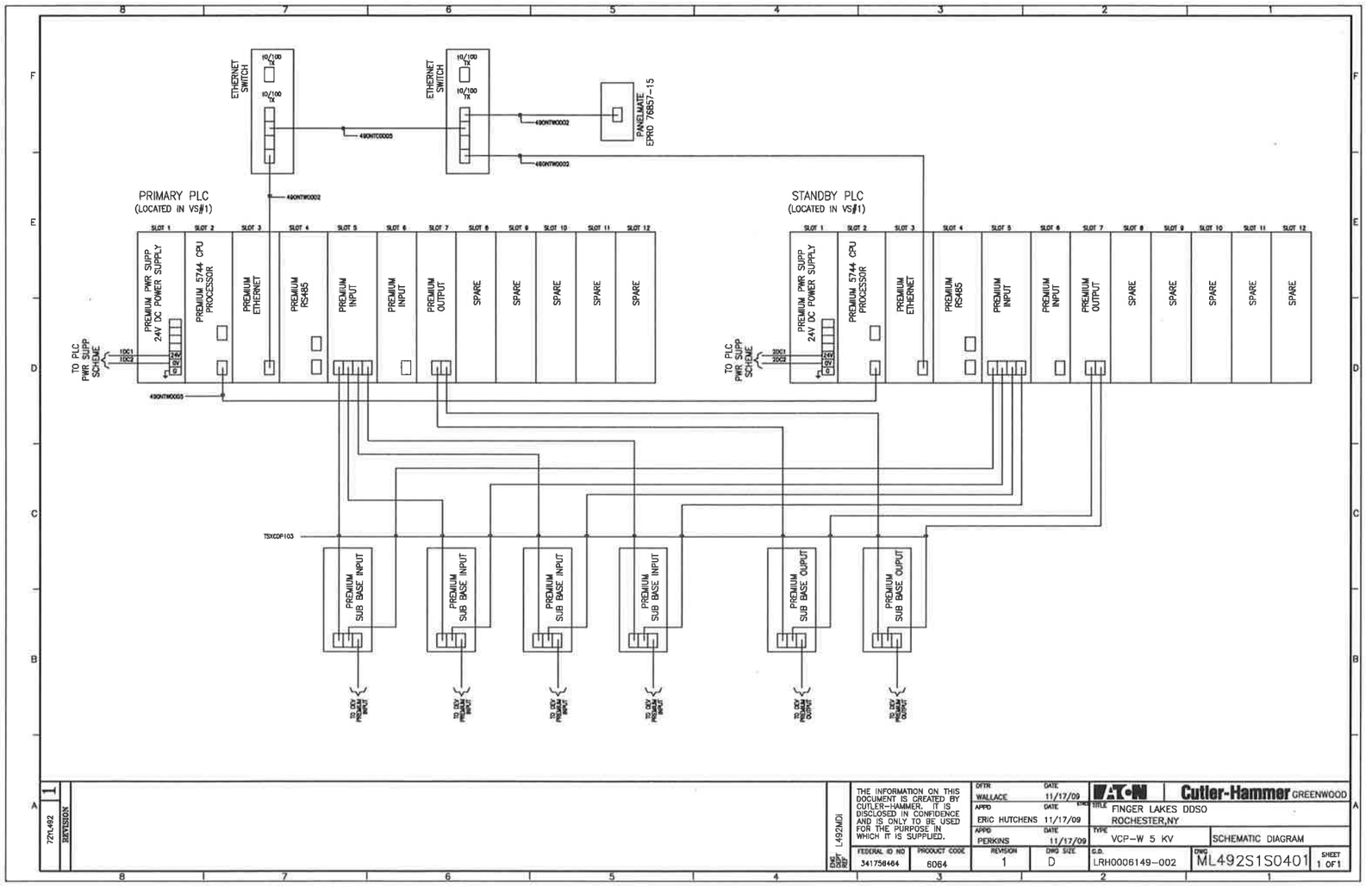
DRTR WALLACE	DATE 11/17/09	
APPD ERIC HUTCHENS	DATE 11/17/09	
APPD PERKINS	DATE 11/17/09	
FEDERAL ID NO 341758484	PRODUCT CODE 6064	REVISION 2
DWG SIZE D		

Eaton Cutler-Hammer GREENWOOD

TITLE FINGER LAKES DDSO
ROCHESTER,NY

TYPE VCP-W 5 KV | SCHEMATIC DIAGRAM

G.O. LRH0006149-002 | DWG ML492S1S0301 | SHEET 1 OF 1



721L492	1		THE INFORMATION ON THIS DOCUMENT IS CREATED BY CUTLER-HAMMER. IT IS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.	L492MDI	DFTR WALLACE 11/17/09	APPD ERIC HUTCHENS 11/17/09	APPD PERKINS 11/17/09
REVISION				DWG REF	FEDERAL ID NO 341756464	PRODUCT CODE 6064	REVISION 1

EATON Cutler-Hammer GREENWOOD

TITLE: FINGER LAKES DDSO ROCHESTER,NY

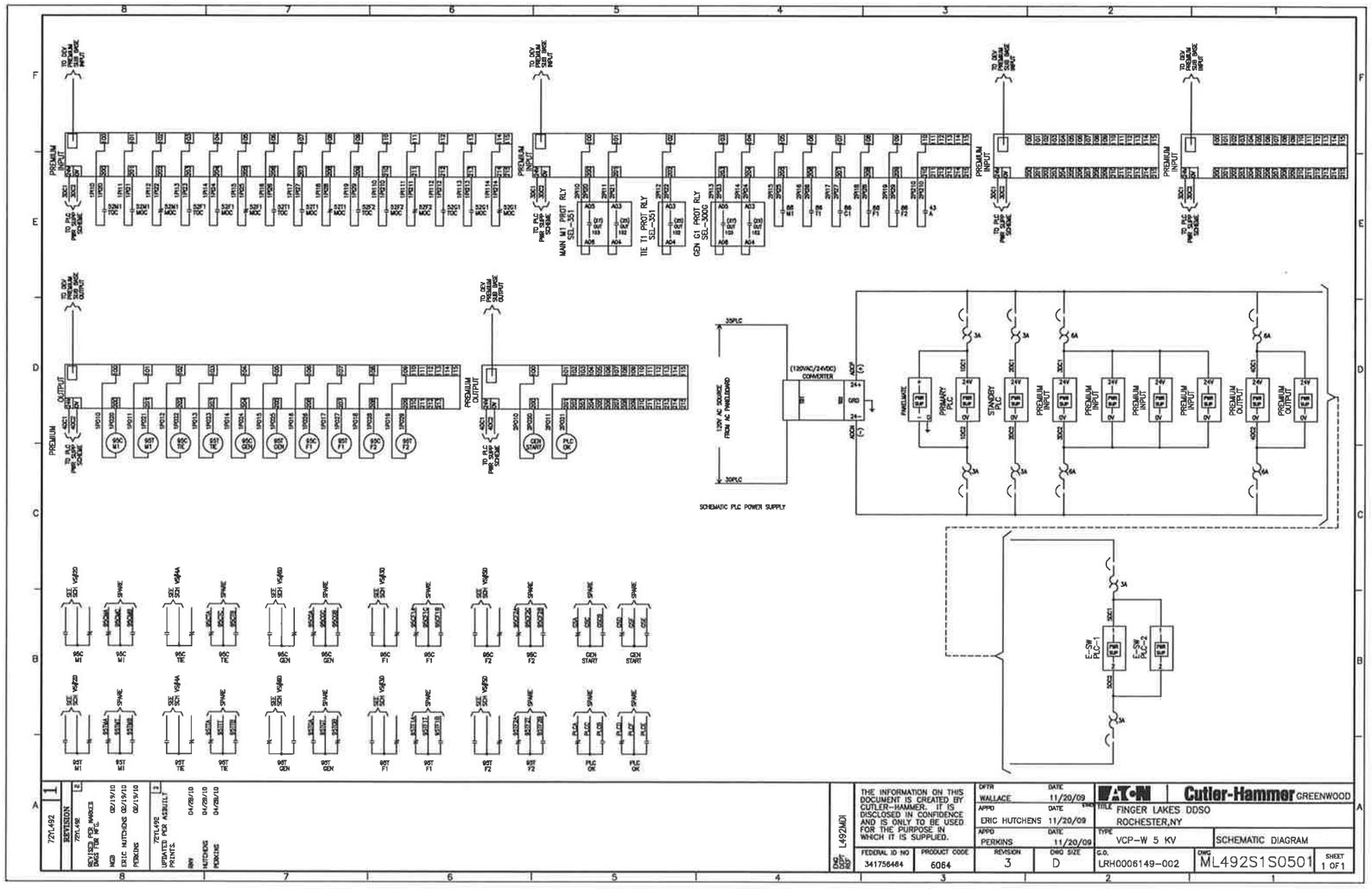
TYPE: VCP-W 5 KV — SCHEMATIC DIAGRAM

DWG SIZE: D

C.O. LRH0006149-002

DWG ML492S1S0401

SHEET 1 OF 1



721L492	11	REVISION					
		721L492					
		REVISED PER MARCS DWGS FOR APC	NCB	ERIC HUTCHENS	PERKINS	03/19/10	03/19/10
		721L492					
		UPDATED PER ASBUILT PRINTS.	BMW	HUTCHENS	PERKINS	04/09/10	04/09/10

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DFTR	WALLACE	DATE	11/20/09
APPD	ERIC HUTCHENS	DATE	11/20/09
APPD	PERKINS	DATE	11/20/09

FEDERAL ID NO	341756464	PRODUCT CODE	6064
REVISION	3	DWG SIZE	D

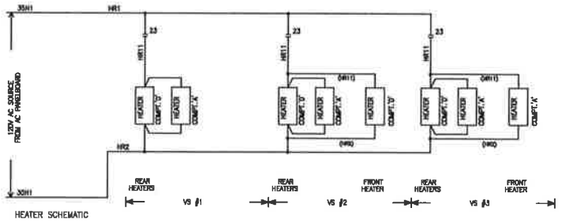
EATON Cutler-Hammer GREENWOOD

TITLE: FINGER LAKES DDSO ROCHESTER,NY

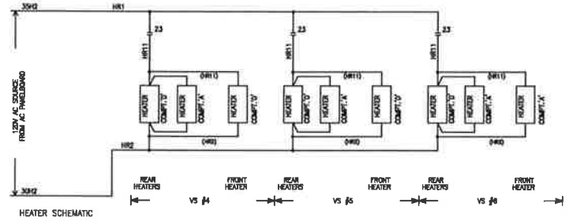
TYPE: VCP-W 5 KV | SCHEMATIC DIAGRAM

G.O.: LRH0006149-002 | DWG: ML492S1S0501 | SHEET: 1 OF 1

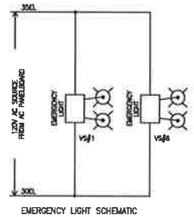
DSP DSG REF: L492MDI



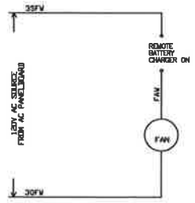
HEATER SCHEMATIC



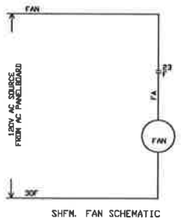
HEATER SCHEMATIC



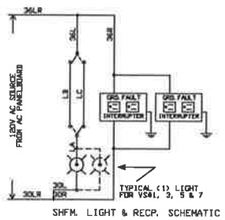
EMERGENCY LIGHT SCHEMATIC



WORK AREA FAN SCHEMATIC



SHFM. FAN SCHEMATIC



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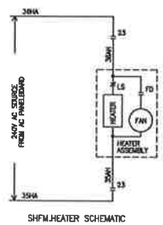

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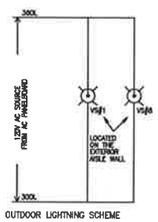
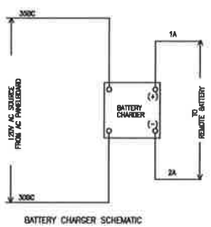


OUTDOOR LIGHTNING SCHEME



BATTERY CHARGER SCHEMATIC

REVISION			
7DL492	1		
7EL492	2	REVISED PER MARCO	HEB 03/19/10
		ERIC HUTCHENS	03/19/10
		PERKINS	03/19/10

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DWG DEPT CODE: L492MDI

DFTR	WALLACE	DATE	11/17/09
APPD	ERIC HUTCHENS	DATE	11/17/09
APPD	PERKINS	DATE	11/17/09
FEDERAL ID NO	341756464	PRODUCT CODE	6064
REVISION	2	DWG SIZE	D

EATON Cutler-Hammer GREENWOOD

TITLE: FINGER LAKES DDSO ROCHESTER,NY

TYPE: VCP-W 5 KV — SCHEMATIC DIAGRAM

G.O.: LRH0006149-002

DWG: ML492S1S0601

SHEET: 1 OF 1