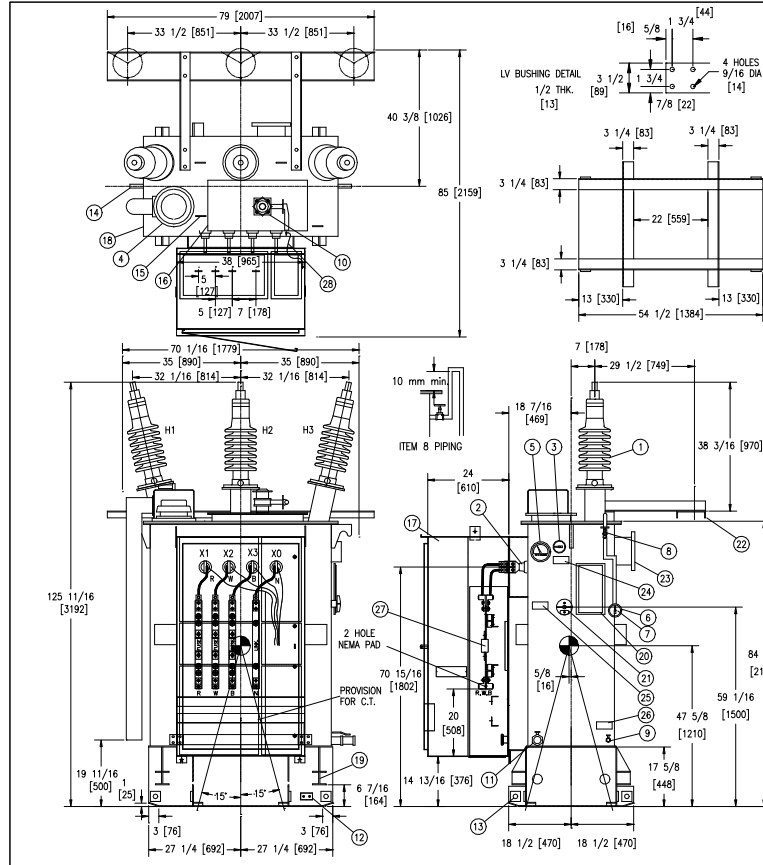


1006-02995-SSQ-911A0N



- 1 3 HV BUSHINGS 48 KV 400/1200 A.C./W 1 1/2-12 THD STUD 2 1/2 LG
- ABB TYPE O PLUS C IEEE CONDENSER DWG. NO. T04W042AU
- STYLE NO. 046W042AU CATALOGUE NO. W178400BB DRAW LEAD
- 2 4 LV BUSHINGS 1.2 KV 1600 A.
- CROSS LINK 90-257
- 3 1 MAGNETIC OIL GAUGE
- QUALITROL #1-30AC
- 4 1 PRESSURE RELIEF DEVICE QUALITROL 208-60U C/W SHROUD & PIPING
- 5 1 TOP OIL THERMOMETER
- QUALITROL #151-103-01
- 6 1 PRESSURE-VACUUM GAUGE
- QUALITROL #50-01-01
- 7 1 PRESSURE BLEEDER VALVE
- QUALITROL #351-2A
- 8 1 PRESSURE VACUUM GAUGE SHUTOFF 1/2" BRASS BALL VALVE
- 9 1 SAMPLE VALVE 1/2" BRASS BALL C/W BRASS PLUG
- 10 1 BUTTERFLY VACUUM VALVE 2" C/W 2" PLUG
- 11 1 DRAIN BALL BRASS VALVE 2" C/W PLUG
- 12 2 S.S. GROUND PADS DIAGONALLY OPPOSITE CORNERS C/W
- CONNECTORS TAKES #4/0 TO 450 MCM
- 13 8 HAULING HOLES 2" [50] DIA
- 14 2 TRANSFORMER LIFTING LUGS
- 15 4 COVER LIFTING LUGS
- 16 1 HANDHOLE C/W BOLTED COVER
- 17 LV COMPARTMENT BOLTED TO TRANSFORMER SEE DWG. 2142-010-FB
- 18 BOLTED COVER
- 19 4 JACKSTEPS
- 20 RATING PLATE SEE DWG 2327-020B
- 21 TAP CHANGER HANDLE NIT 3010 C/W PADLOCKING PROVISION
- 22 LIGHTNING ARRESTORS MOUNTING AS PER HYDRO DWG. SSD 1167
- 23 CORE GROUND BOX C/W RESISTOR SEE DWG. TB-7556
- 24 1 OIL LEVEL NAMEPLATE
- "OIL LEVEL AT 255.177 mm BELOW COVER
- LIQUID LEVEL CHANGE 31 mm PER 10°C"
- 25 TAP CHANGER WARNING NAMEPLATE HYDRO ONE STANDARD
- 26 OIL SAMPLING NAMEPLATE
- 27 3 FUSES 600 A. FERRAZ AMP-TRAP CAT NO. A4B0600
- 28 BOX TO TANK GROUND STRAP

	LB	KG
CORE & COILS	2344	1063
TANK & FITTINGS	2529	1147
OIL 239 GALS. 1177 L.	2227	1010
TOTAL	7100	3220

AUTOCAD VERSION 2004
 SHIPPING DIMENSION ARE THE SAME AS OVERALL DIMENSION
 IMPACT RECORDER LOCATED ON TRANSFORMER COVER
 UNIT SHIPPED OIL FILLED WITH DRY AIR IN AIR SPACE
 TANK SIZE 25(635) X 55(1346) X 66(1676) H.
 FINISH ASA 70 GREY
 INTERIOR WHITE
 ALL DIMENSION IN mm
 GASKET STOPS ON OUTER EDGE
 ALL STIFFENERS C/W 6mm VENT HOLES
 UNTANKING HEIGHT 125[3175]
 ASSEMBLED CENTER OF GRAVITY

Northern Transformer INCORPORATED	
PROJ 1=16	DATE JULY 25/09
DESIGNED BY KENDRA WATKINS	DRAWN BY
DATE	S.C. NO.
09-2327	
225 KVA OIL FILLED TRANSFORMER ONAN	
44000-208V/120 V 3 PH 60 HZ 65°C	
HYDRO ONE NETWORKS	P.O. #4400032412
MATERIAL #30020038	2327-040C

Hydro One Networks Inc.	
ENGINEERING & CONSTRUCTION SERVICES	
LONGLAC TS NOV116	
45KV AREA	
STATION SERVICE TRANSFORMER	
VIEW AND DETAILS	
ELECTRICAL ARRANGEMENT	
REV	DESCRIPTION
01	ISSUED FOR CONSTRUCTION
02	FOR REVIEW
03	FOR REVIEW
04	FOR REVIEW
05	FOR REVIEW
06	FOR REVIEW
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B1 (707 x 1000)

CLASS 16 37

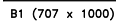


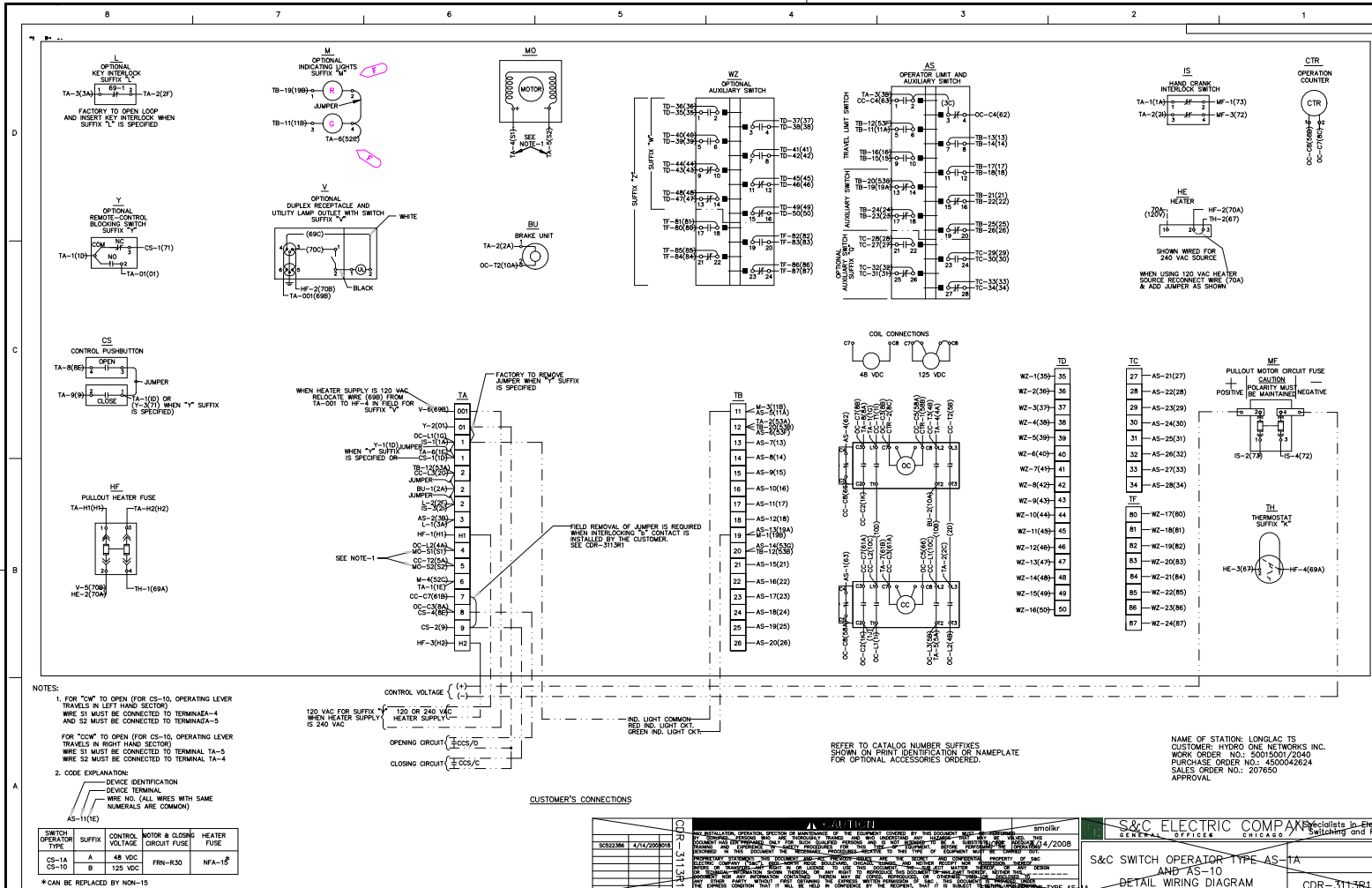
hydro  Hydro One Networks Inc.

Project	LONGLAC TS	NQV1
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den	designed by	
(thd)		
date yyyy/mm/dd	design approved	ref. Standard

Drawing No. **NQV116-D5S-65142-9002** Sheet No. **01** Rev. No.





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LONGGLAC TS NQV116

44kV SWITCH OPERATOR S & C TYPE AS-1A AND AS-10 CONNECTION WIRING DIAGRAM

DESIGNED BY: []

CHECKED BY: []

DATE: []

SCALE: []

REVISIONS: []

NOTES: []

HYDRO ONE NETWORKS INC. ENGINEERING & CONSTRUCTION SERVICES

01

1006-59159-S1D-911A0N

DWG. NO.
MC400680

NOTES:

1. N.P. SIZE: 250mm [9.84] x 160mm [6.30]
2. MATERIAL: STAINLESS STEEL
3. THICKNESS: 0.5 [0.02]
4. STANDARD: ANSI C37.04
5. *** ENGRAVE INFORMATION FROM TABLE BELOW

GAS CIRCUIT BREAKER

BREAKER TYPE	70-SFMT-40HE	CAPACITIVE CURRENT SWITCHING	
RATED MAXIMUM VOLTAGE	72.5 kV	RATED OVERVOLTAGE FACTOR	3.0
RATED CONTINUOUS CURRENT	***	RATED LINE CHARGING CURRENT	100 A
RATED FREQUENCY	60 Hz	ISOLATED BANK/CABLE CURRENT	630 A
RATED VOLTAGE RANGE FACTOR K	1.0	BACK TO BACK SHUNT CURRENT	630 A
RATED SHORT CIRCUIT CURRENT	40 kA	INRUSH PEAK CURRENT	25 kA
RATED INTERRUPTING TIME	3 CYCLES	INRUSH FREQUENCY	3360 Hz
RATED FULL WAVE IMPULSE VOLTAGE	350 kV	GAS WEIGHT	40 lbs
OUT OF PHASE SWITCHING CURRENT	10 kA	TOTAL WEIGHT	4885 lbs
RATED LINE CLOSING SWITCHING FACTOR	N/A	GAS PRESSURE AT 20°C (68 °F) NORMAL	71 psig
RATED SWITCHING IMPULSE VOLTAGE		ALARM	64 psig
TERMINAL TO TERMINAL	N/A kV	MINIMUM	57 psig
TERMINAL TO GROUND	N/A kV		
MECHANISM TYPE	BM-1		
CLOSING CONTROL VOLTAGE RANGE	90-140 VDC	CLOSING CURRENT AT RATED VOLTAGE	3.8 A
TRIPPING CONTROL VOLTAGE RANGE	70-140 VDC	TRIPPING CURRENT AT RATED VOLTAGE	2 x 6.6 A
SCHEMATIC DIAGRAM	***	INSTRUCTION BOOK/PARTS LIST	MEB0004
SERIAL NUMBER	***	MAX CONT AC LOAD	24 A
YEAR OF MANUFACTURE	***		
MOTOR RATED VOLTAGE	125VDC	MOTOR CURRENT	5.3 A
RATED SHORT CIRCUIT W/O HEATERS	31.5kA	RUPTURE DISC PRESSURE	130PSIG @ 68°F
OPERATED TEMPERATURE RANGE	-40°C TO +40°C		

MITSUBISHI ELECTRIC POWER PRODUCTS, INC.
WARRENDALE, PA. 15086 U.S.A.

REVISIONS

NO.	DESCRIPTION	DATE
1	BREAKER TYPE WAS 70-SFMT-40HE. CHG TO 70-SFMT-40HE. RAB 12/23/09	12/23/09
2	5/09 SHORT/25000 RECD. CHG TO 31.5KA. RAB 12/18/09	12/18/09
3	CHG TO 125VDC. RAB 12/18/09	12/18/09

DIM. IN	[MM]	SCALE	NTS	DRAFTER	DATE		MITSUBISHI ELECTRIC POWER PRODUCTS, INC. WARRENDALE, PA.
PROPRIETARY This document is the property of Mitsubishi Electric and contains proprietary and confidential information which must not be disclosed to anyone other than as expressly authorized by Mitsubishi Electric. Please do not remove.				G. GRAHAM	09/30/09		
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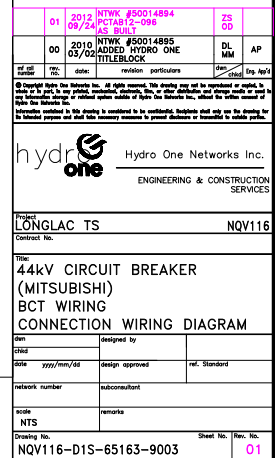
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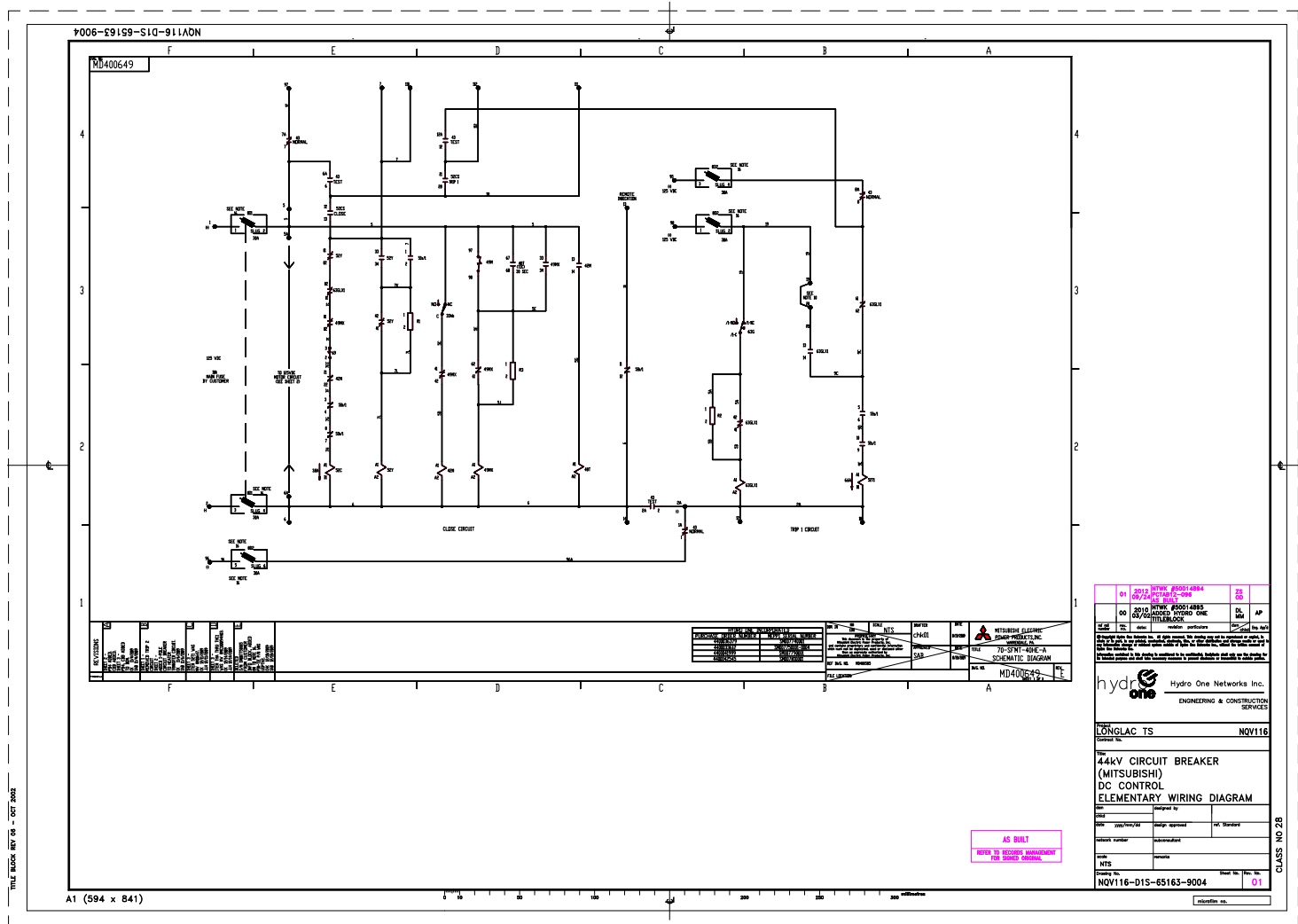
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09/09/09	09/09/09	ADDED HYDRO ONE	MM	
TITLEBLOCK				
DATE	DATE	DATE	DATE	DATE
DATE	DATE	DATE	DATE	DATE
Hydro One Networks Inc. ENGINEERING & CONSTRUCTION SERVICES				
LONGGLAC TS NOV116				
44kV CIRCUIT BREAKER (MITSUBISHI) TAG PLATE ELECTRICAL ARRANGEMENT				
Rev	Designed by	Design approved	rev. Standard	
Size	3000/mm/50			
Release number	subcontract			
Scale	NTS	notes		
Drawing No.	NOV116-D1S-65163-9001	Sheet No.	Rev. No.	1
microfilm no.				

TITLE BLOCK REV 06 - OCT 2002

A1 (594 x 841)

CLASS NO 28





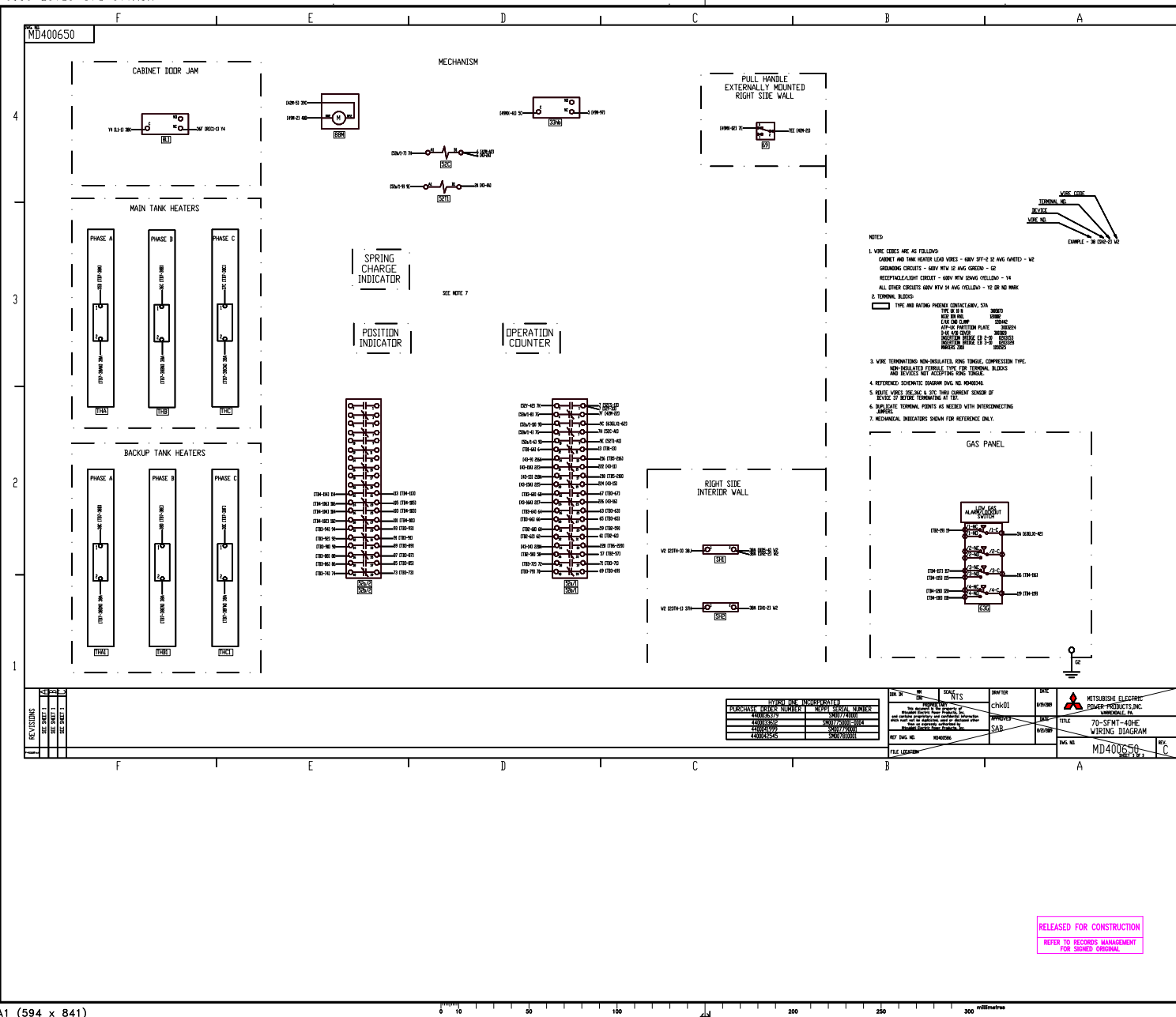
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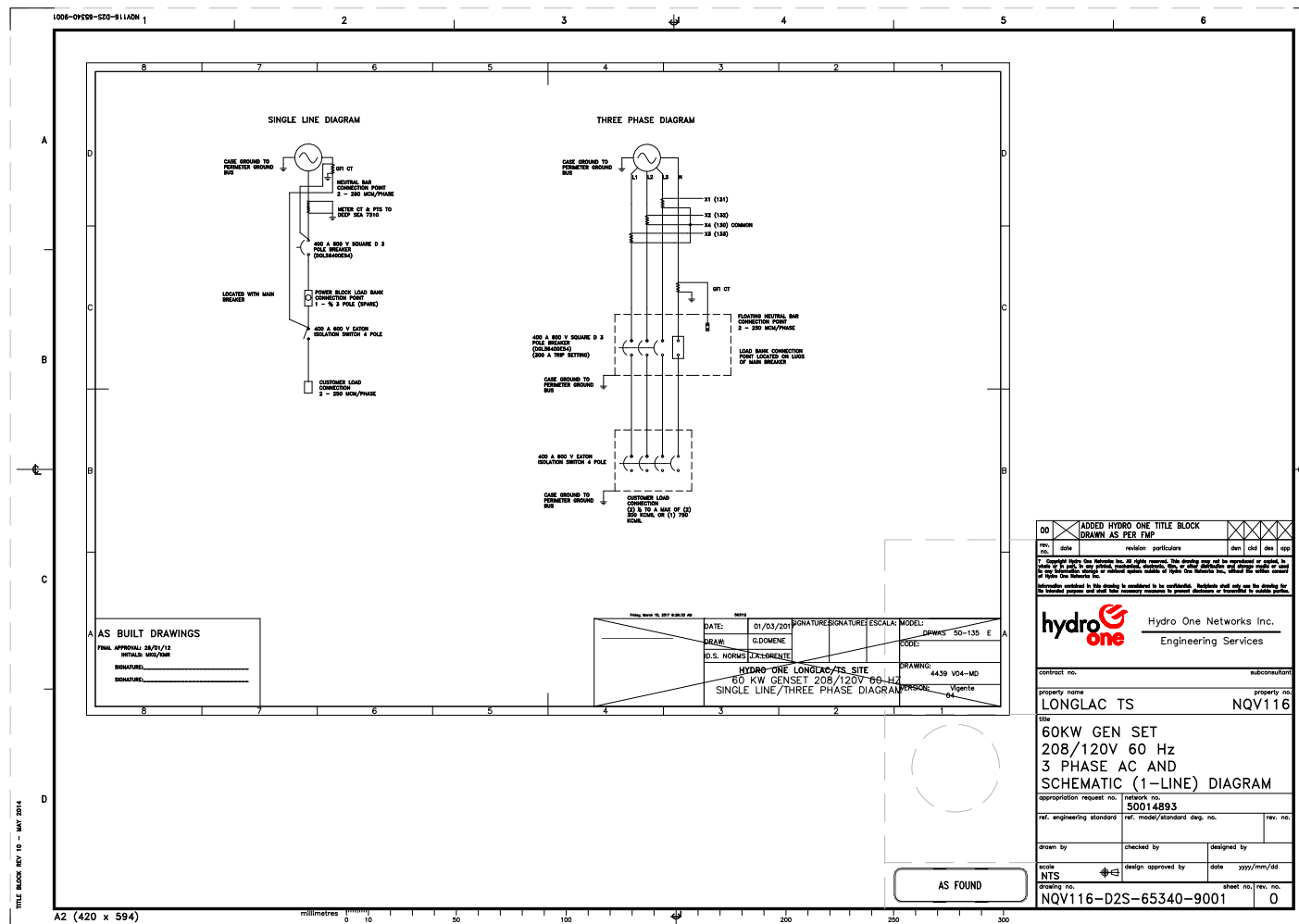


DWG. NO. MD4006

CLASS NO 28

6006 39159-D1S-65163-9009

[illegible]



no.	CLASS NO. 29
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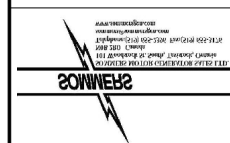
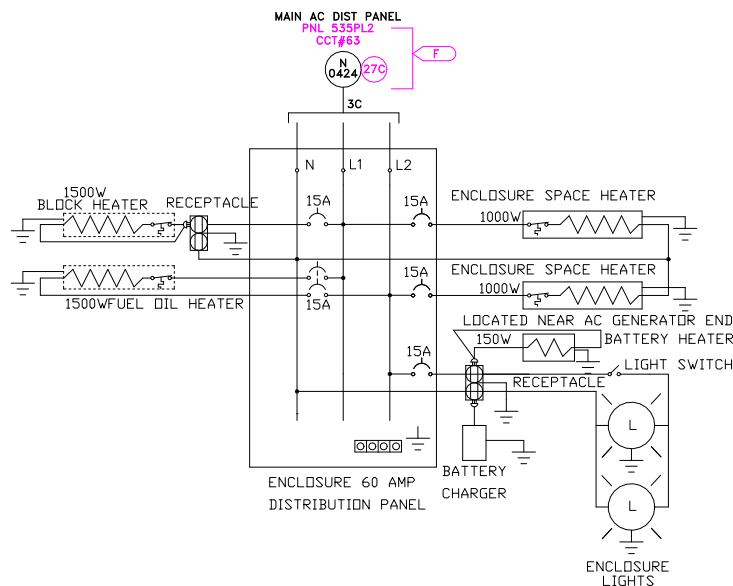
NOV116-D2S-65344-9001

EDWARDS HEAT DETECTOR (284B-PL)



LEGEND

- GROUND TO CONTINUOUS PERIMETER GROUND BAR
- FIRE ALARM SYSTEM



REVISIONS				TITLE:	
CHG	DATE	DESCRIPTION	BY	ENCLOSURE DISTRIBUTION	
1	04/08	HYDRO ONE - KTC/KMR			
2	04/05	END INDICATION	KMR		
				SCALE:	DWN BY: KMR
				DATE:	16/10/08
				SHEET:	1 DWG NO: 36899DIST1

AS BUILT
REFER TO RECORDS MANAGEMENT
FOR SIGNED ORIGINAL

01	2012	NTWK #50014894	MW				
09/21		FOCAB12-086	CD				
		AS BUILT					
ref. no.	00	ADDED HO TITLE BLOCK	date	16/10/08			
rev. no.		ADDED CABLE N0424	date	16/10/08			
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Project		LONGLAC TS					
Contract No.		NOV116					
Title:							
208V AC AUTO TRANSFER SWITCH ENCLOSURE DISTRIBUTION							
designed by							
date	yyyy/mm/dd	design approved	ref. Standard				
network number	50014895						
scale	NTS						
Drawing No.	NOV116-D2S-65344-9001						
Sheet No.	1						

TITLE BLOCK REV 07 - OCT 2002

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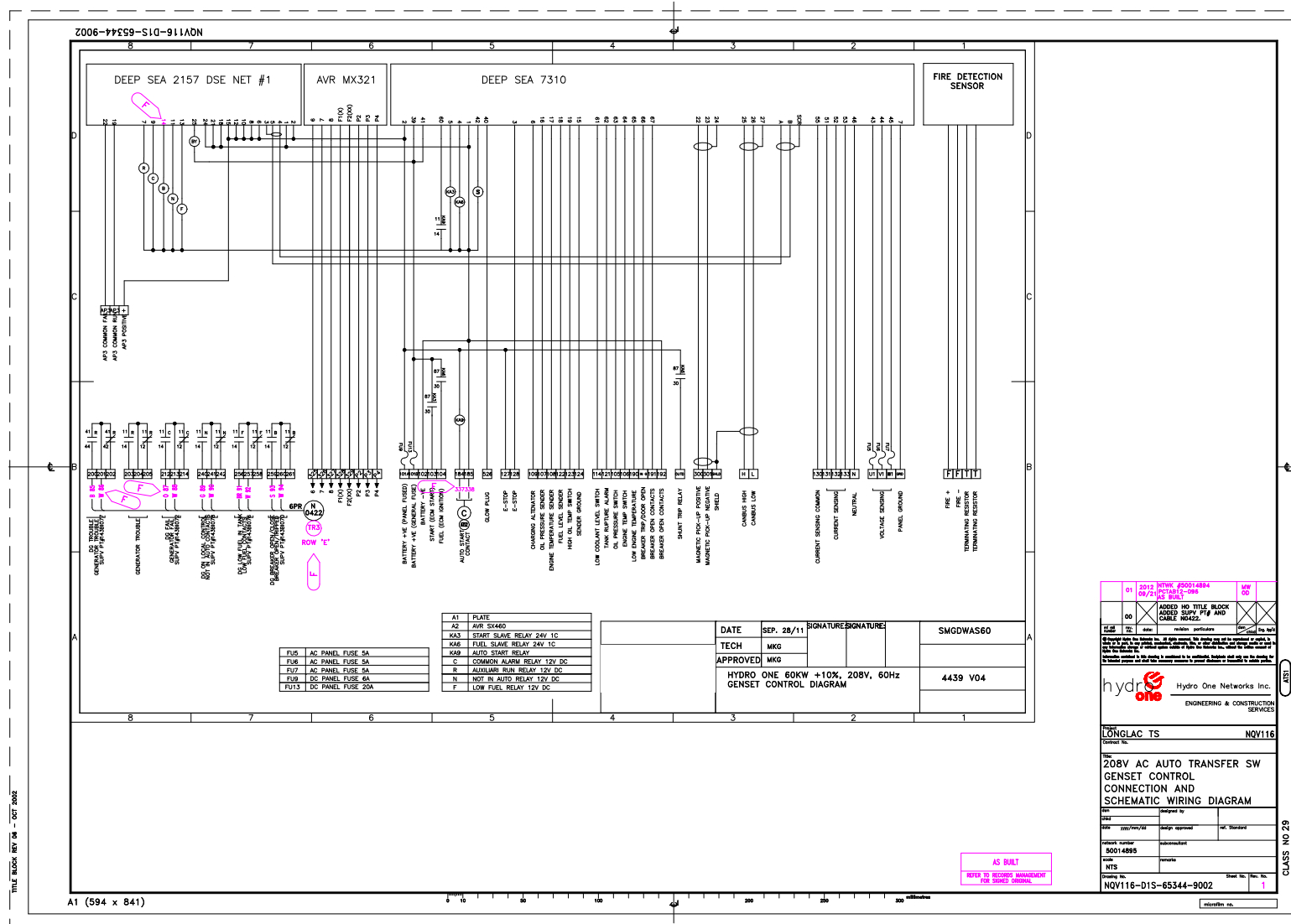
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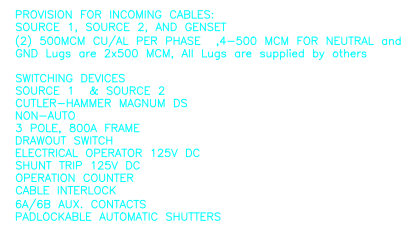
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microfilm no.

ATSS

CLASS NO 29





This document accurately reflects the manufacturing details of this product when it shipped from the factory.

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LES RENSEIGNEMENTS CI-DESSUS ONT ÉTÉ ÉLABORÉS PAR EATON CORPORATION. ILS VOUS SONT DIVULGUÉS EN TOUTE CONFIDANCE ET LEUR UTILISATION SE LIMITE AUX SEULES FINS POUR LESQUELLES ILS ONT ÉTÉ DIVULGUÉS.

N° ID FÉDÉRAL/
FEDERAL ID NO.

CODE DE PRODU
PRODUCT CODE
PG 140

DFTR / DFT
LF

DATE / DATE
12/08/2010



MILTON, ON

APPÉ / APP

DATE / DATE

TITRE/ 208V 3PH SINGLE LINE DIAGRAM
TITLE HYDRO ONE - NETWORKS INC.

TYPE / T
S3000

PICTON ATS

BON DE DEMANDE / G.O.

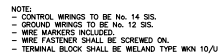
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FEUILLE / SHEET

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NOV 16 1965



TITLE BLOCK REV 06 - OCT 2002

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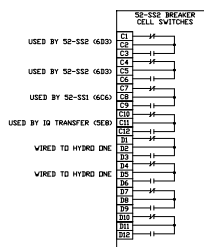
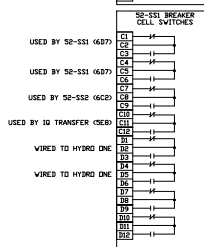
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CLASS NO 29

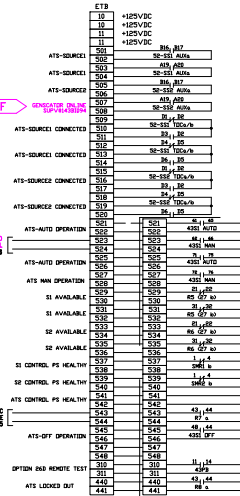
CELL 1A

52-GENSET BREAKER
CELL SWITCHES

C1	—/—
C2	—/—
C3	—/—
C4	—/—
C5	—/—
C6	—/—



+125VDC FROM HYDRO ONE AND
CONTACTS FOR REMOTE MONITORING TO HYDRO ONE



CELL 2A

- | | |
|---|---|
|  | CLOSED COIL |
|  | COMMON REFERENCE |
|  | CURRENT TRANSFORMER
LOCATED PER 18x OPTION |
|  | FEMALE CONNECTION |
|  | FIXED MOUNT
SWITCHING DEVICE |
|  | FUSE |
|  | INDICATOR LIGHT |
|  | MALE CONNECTION |
|  | TRANSFORMER |
|  | N.C. SELECTOR SWITCH |
|  | N.C. CONTACT |
|  | N.O. CONTACT |
|  | N.O. PUSHBUTTON |
|  | N.O. SELECTOR SWITCH |
|  | TERMINAL BLOCK |
|  | OPEN COIL |
|  | RELAY OR TIMER |
|  | ATS CONTROL POWER
HEALTHY RELAY |
|  | TIMER |

TONE TIMER OR THE ATS IQ CONTROLLER 'ATC 600'
MUST BE SET TO 30 SEC TO PERMIT STABILISATION
OF D6 BEFORE TRANSFER.

REVISION

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LES RENSEIGNEMENTS CI-DESSUS ONT ÉTÉ ÉLABORÉS PAR EATON CORPORATION. ILS VOUS SONT DIVULGUÉS EN TOUTE CONFIANCE ET LEUR UTILISATION SE LIMITE AUX SEULES FINS POUR LESQUELLES ILS ONT ÉTÉ DIVULGUÉS.

DFTR / DFTR	DATE / DATE
LF	12/08/2010
APPE / APPD	DATE / DATE
.	.

WATON	
TITLE/	ATS STATUS CONTACTS
TITLE	HYDRO ONE - NETWORKS INC.
TYPE / TYPE	
S3000	

MILTON, ON

PICTON ATS

	01	2012 09/21	NTWK #50014894 PCTAB12-098 AS BURLY	MW 00	
	00		ADDED HQ TITLE BLOCK ADDED SUPV PT#.		
ref. cell number	rev. no.	date	revision	particulars	des. checkbox

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Hydro One Networks Inc.
ENGINEERING & CONSTRUCTION
SERVICE

Project	LONGLAC TS	NQV11
Contract No.		

☐ Yes ☐ No ☐ Not sure	☐ Yes ☐ No ☐ Not sure
--	--

208V AC
AUTO TRANSFER SWITCH
STATUS CONTACTS

designed by	
date	1999/06/08
design approved	ref. Standard
network number	subcontractant

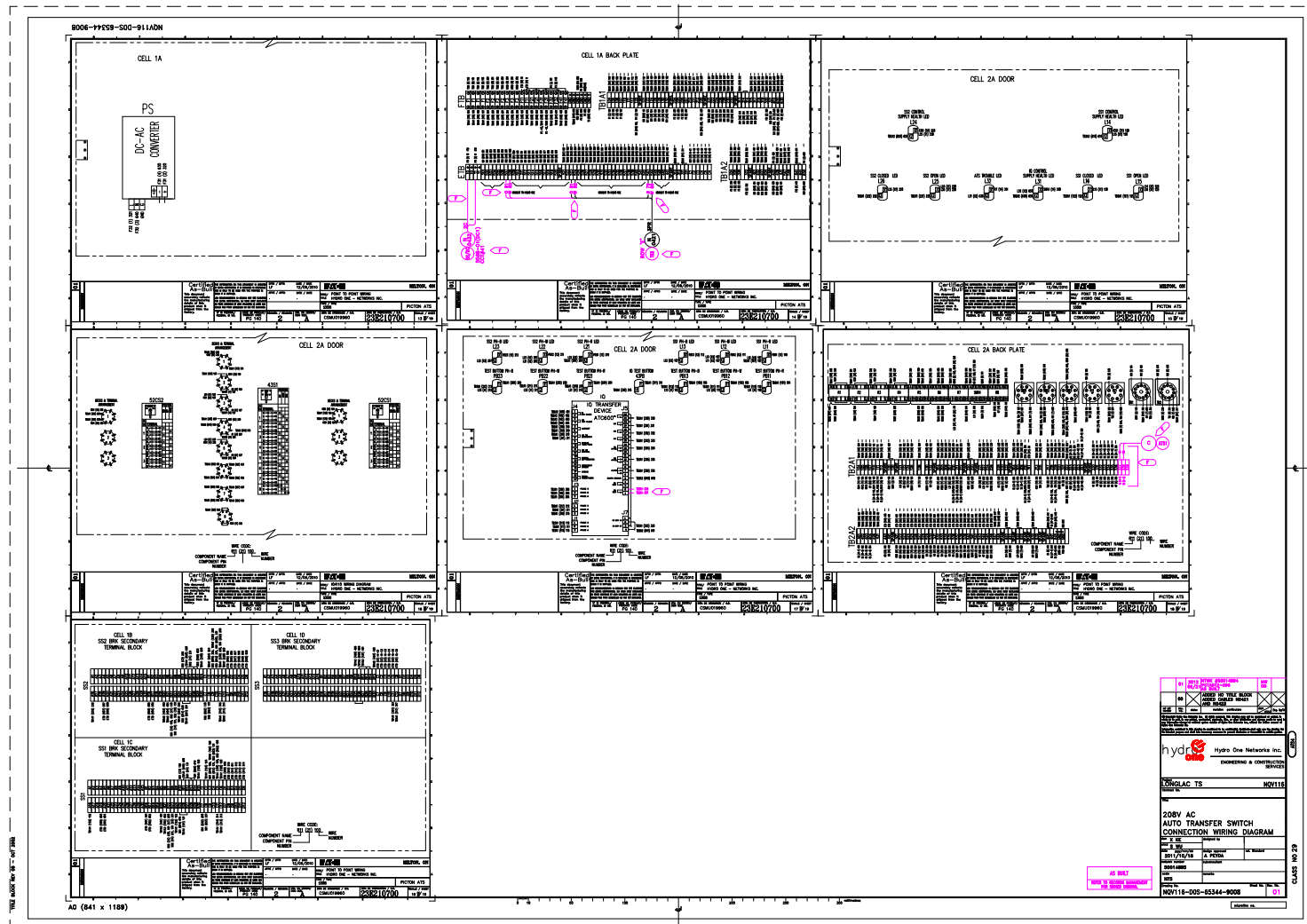
Scale	NTS	Remarks
Drawing No. NQV116-D1S-65344-9006		Sheet No. Rev. No. 1

microfilm 16.

A1 (594 x 841)

1797

CLASS NO 20					
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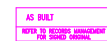
HYDRO ONE NETWORKS INC.	
ENGINEERING & CONSTRUCTION SERVICES	
PROJECT NO.	NOV116
DATE	NOV 16, 2017
208V AC AUTO TRANSFER SWITCH CONNECTION WIRING DIAGRAM	
REV	NOV 16, 2017
BY	NOV 16, 2017
CHKD	NOV 16, 2017
APPD	NOV 16, 2017
NOV116-005-85544-9005	
CLASS NO 23	

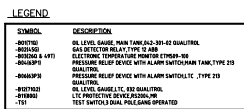


00	2011 04/11	NTWK #50014892 ADDED HYDRO ONE TITLE BLOCK	SJ	00	EB
ref no	date	revision	particulars	date	by (signature)
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hydro one		Hydro One Networks Inc.			
ENGINEERING & CONSTRUCTION SERVICES					
Project: CONGLAC TS			NQV116		
Contract No.					
Title: AC MONITORING CABINET					
CONNECTION WIRING DIAGRAM					
drawn	designed by				
date	0000/00/00	design approved	ref. Standard		
network number	subcontractant				
scope	remarks				
NTS					
Drawing No.				Sheet No.	
NQV116-D25-65350-9001				0	



CLASS NO 27

[illegible]



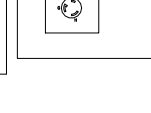
AS BUILT
REFER TO RECORDS MANAGEMENT FOR SIGNED ORIGINAL

CLASS NO 27



MRCI RATIOS															
CT12,3,4,5,6				CT7,8,9		CT10		CT11,12,13		CT14,15		CT16			
RATIO		ACCURACY		RATIO		ACCURACY		RATIO		ACCURACY		RATIO		ACCURACY	
10-X	360°	460°	560°	660°	760°	860°	960°	1060°	1160°	1260°	1360°	1460°	1560°	1660°	1760°
10-Y	290°	390°	490°	590°	690°	790°	890°	990°	1090°	1190°	1290°	1390°	1490°	1590°	1690°
10-Z	400°	500°	600°	700°	800°	900°	1000°	1100°	1200°	1300°	1400°	1500°	1600°	1700°	1800°
11-X	360°	460°	560°	660°	760°	860°	960°	1060°	1160°	1260°	1360°	1460°	1560°	1660°	1760°
11-Y	290°	390°	490°	590°	690°	790°	890°	990°	1090°	1190°	1290°	1390°	1490°	1590°	1690°
11-Z	400°	500°	600°	700°	800°	900°	1000°	1100°	1200°	1300°	1400°	1500°	1600°	1700°	1800°
12-X	360°	460°	560°	660°	760°	860°	960°	1060°	1160°	1260°	1360°	1460°	1560°	1660°	1760°
12-Y	290°	390°	490°	590°	690°	790°	890°	990°	1090°	1190°	1290°	1390°	1490°	1590°	1690°
12-Z	400°	500°	600°	700°	800°	900°	1000°	1100°	1200°	1300°	1400°	1500°	1600°	1700°	1800°
13-X	360°	460°	560°	660°	760°	860°	960°	1060°	1160°	1260°	1360°	1460°	1560°	1660°	1760°
13-Y	290°	390°	490°	590°	690°	790°	890°	990°	1090°	1190°	1290°	1390°	1490°	1590°	1690°
13-Z	400°	500°	600°	700°	800°	900°	1000°	1100°	1200°	1300°	1400°	1500°	1600°	1700°	1800°
14-X	360°	460°	560°	660°	760°	860°	960°	1060°	1160°	1260°	1360°	1460°	1560°	1660°	1760°
14-Y	290°	390°	490°	590°	690°	790°	890°	990°	1090°	1190°	1290°	1390°	1490°	1590°	1690°
14-Z	400°	500°	600°	700°	800°	900°	1000°	1100°	1200°	1300°	1400°	1500°	1600°	1700°	1800°
15-X	360°	460°	560°	660°	760°	860°	960°	1060°	1160°	1260°	1360°	1460°	1560°	1660°	1760°
15-Y	290°	390°	490°	590°	690°	790°	890°	990°	1090°	1190°	1290°	1390°	1490°	1590°	1690°
15-Z	400°	500°	600°	700°	800°	900°	1000°	1100°	1200°	1300°	1400°	1500°	1600°	1700°	1800°

[illegible]

[illegible]