

2 BASEMENT PART PLAN – NEW WORK
SCALE: 1:100

- ### DRAWING NOTES
1. PROVIDE NEW FREE STANDING MCC C/W NEW STARTERS TO MATCH EXISTING AND RECONNECT TO EXISTING LOADS. RECONNECT ALL CONTROL WIRING. REPLACE CONTROL WIRING AS REQUIRED. REFER TO DRAWINGS E04 AND E05 FOR MOTOR STARTER SCHEMATICS.
 2. RECONNECT EXISTING FEEDER TO MCC#1. PROVIDE SPLICES AND EXTEND AS REQUIRED.
 3. PROVIDE NEW MCC#1. RE-USE EXISTING FEEDERS FROM PANEL PD2-11.
 4. PROVIDE NEW PANEL L29. EXTEND REMAINING CIRCUIT FROM OLD LOCATION AND MAKE CONNECTIONS. REFER TO 2/E02 FOR DETAILS.
 5. PROVIDE SURFACE MOUNT MANUAL STARTER, TOGGLE TYPE, 1 POLE, "AUTO-OFF-HAND" SELECTOR, PILOT LIGHT, SQ D CLASS 2510, CAT:FG71P.

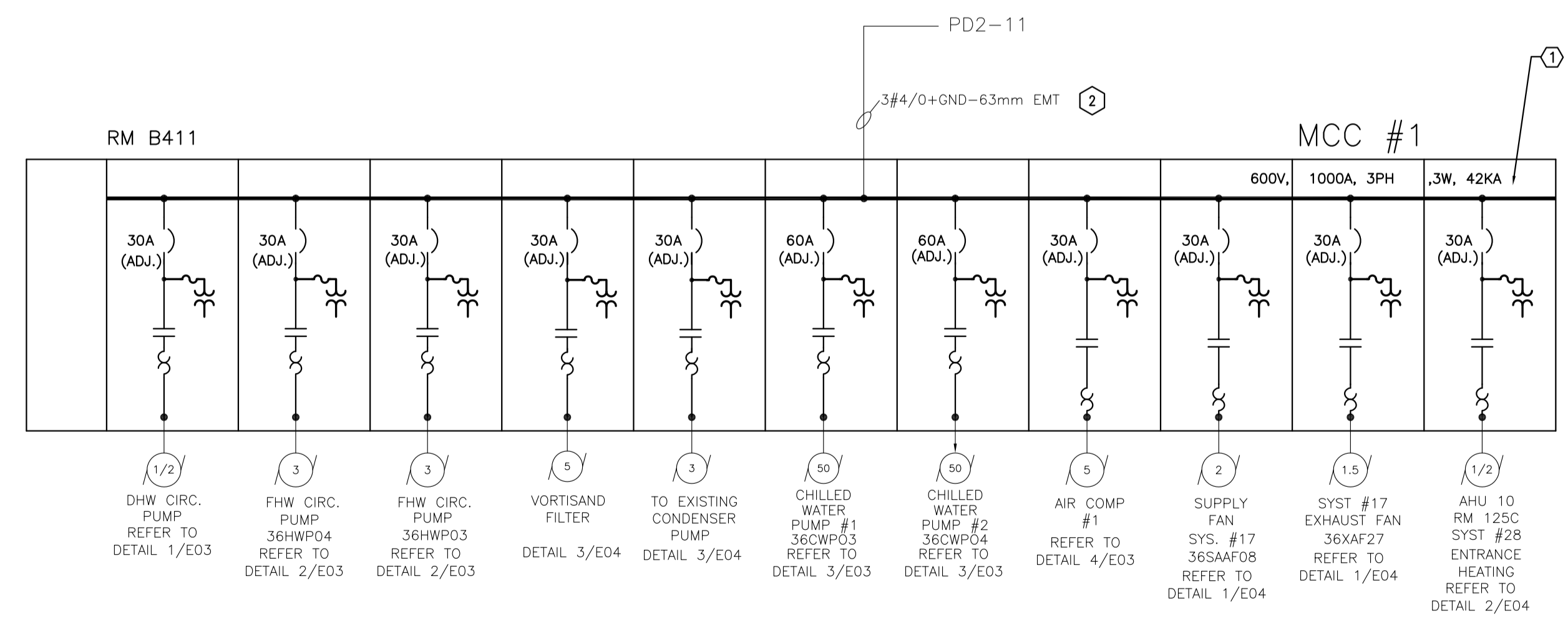


GENERAL NOTES

- A READ THIS DRAWING IN CONJUNCTION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS.
- B CONTRACTORS TO CHECK AND VERIFY ALL DIMENSIONS ON SITE PRIOR TO DEMOLITION OR CONSTRUCTION AND REPORT ANY ERRORS OR OMISSIONS TO NRC DEPARTMENTAL REPRESENTATIVE.
- C CONTRACTORS MUST VISIT THE SITE & FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK.
- D PREVENT THE SPREAD OF DUST & DEBRIS BEYOND THE WORK AREA AND CLEAN ALL SURFACES AT COMPLETION.
- E MAKE GOOD ALL SURFACES AFFECTED BY THIS WORK.
- F FILL ALL HOLES, PATCH & PAINT ALL SURFACES IN CONTRACT AREA. COLOUR SCHEME TO MATCH EXISTING.
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- I THE WORD "PROVIDE" MEANS SUPPLY, INSTALL, CONNECT AND TEST.
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- M CONTRACTOR TO VERIFY INTEGRITY OF EXISTING RACEWAY BY PULLING A BRUSH AND MANDREL BEFORE WIRING.
- N ALWAYS PERFORM SCAN BEFORE CORE DRILL.
- O VERIFY PHASING AND ROTATION, MATCH THE EXISTING SYSTEM.
- P CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY DAMAGES TO ANY EXISTING BUILDING COMPONENT CAUSED BY CONSTRUCTION ACTIVITIES.

PANEL L29	
VOLTAGE	120/240V
PHASE	1Φ
WIRE	3
RATING AMPS	225A
LOCATION	B411
MODEL NO.	SQUARE D NOOD
FED FROM	LD1B-11

SYSTEM	CIRCUIT	DESCRIPTION
SYSTEM 25	1	MAIN LIGHTING OPTICAL TUNNEL
SYSTEM 26	2	MAIN LIGHTING OPTICAL TUNNEL
DDC	3	#1 COMP CONTROLS
PURGE PUMP	4	#2 COMP CONTROLS
SYSTEM 29	5	PASSIVE CHILLED WATER
DDC	6	SPARE
SPARE	7	SPARE
SPARE	8	SPARE
SPARE	9	SPARE
SPARE	10	SPARE
SPARE	11	SPARE
SPARE	12	SPARE
SPARE	13	SPARE
SPARE	14	SPARE
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SPARE	42	SPARE

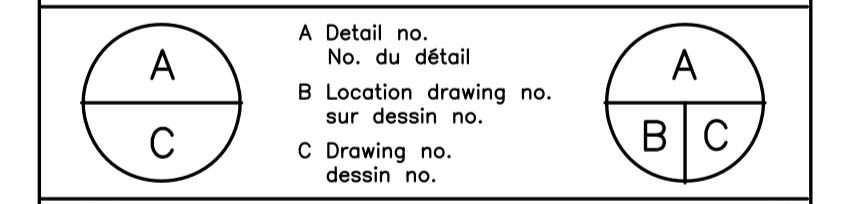


1 SCHEMATIC – NEW WORK
SCALE: N.T.S.

3 PANEL L29 SCHEDULE – NEW WORK
SCALE: N.T.S.

No.	Date	Revision	By:	Par:

Date Printed DD MM YYYY Date imprimée
 • Verify all dimensions and site conditions and be responsible for same
 • Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité

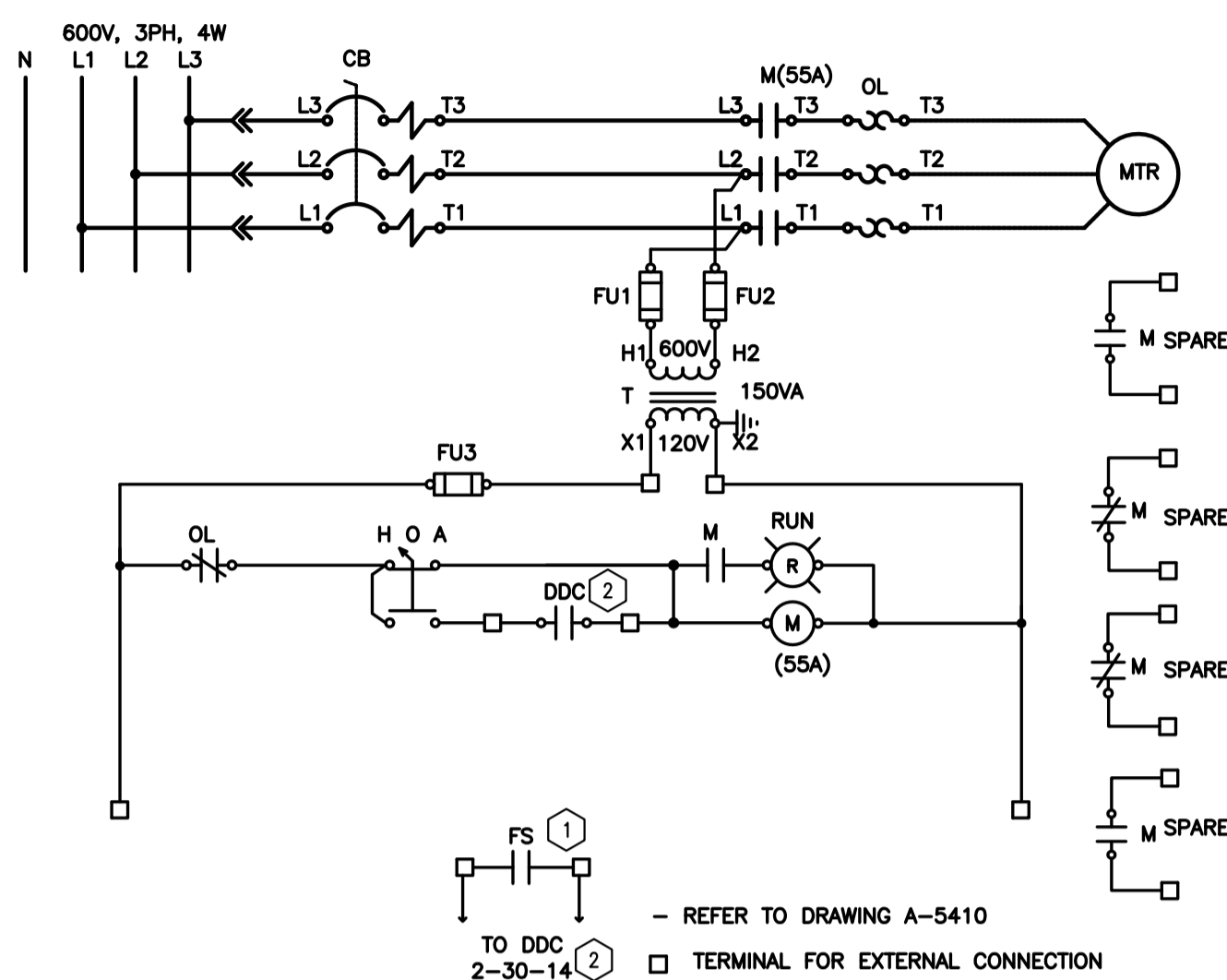


project **M36-MCC #1 AND 5 REPLACEMENT** projet
MONTREAL ROAD CAMPUS
 drawing **BASEMENT PART PLAN SCHEMATICS – NEW WORK.** dessin

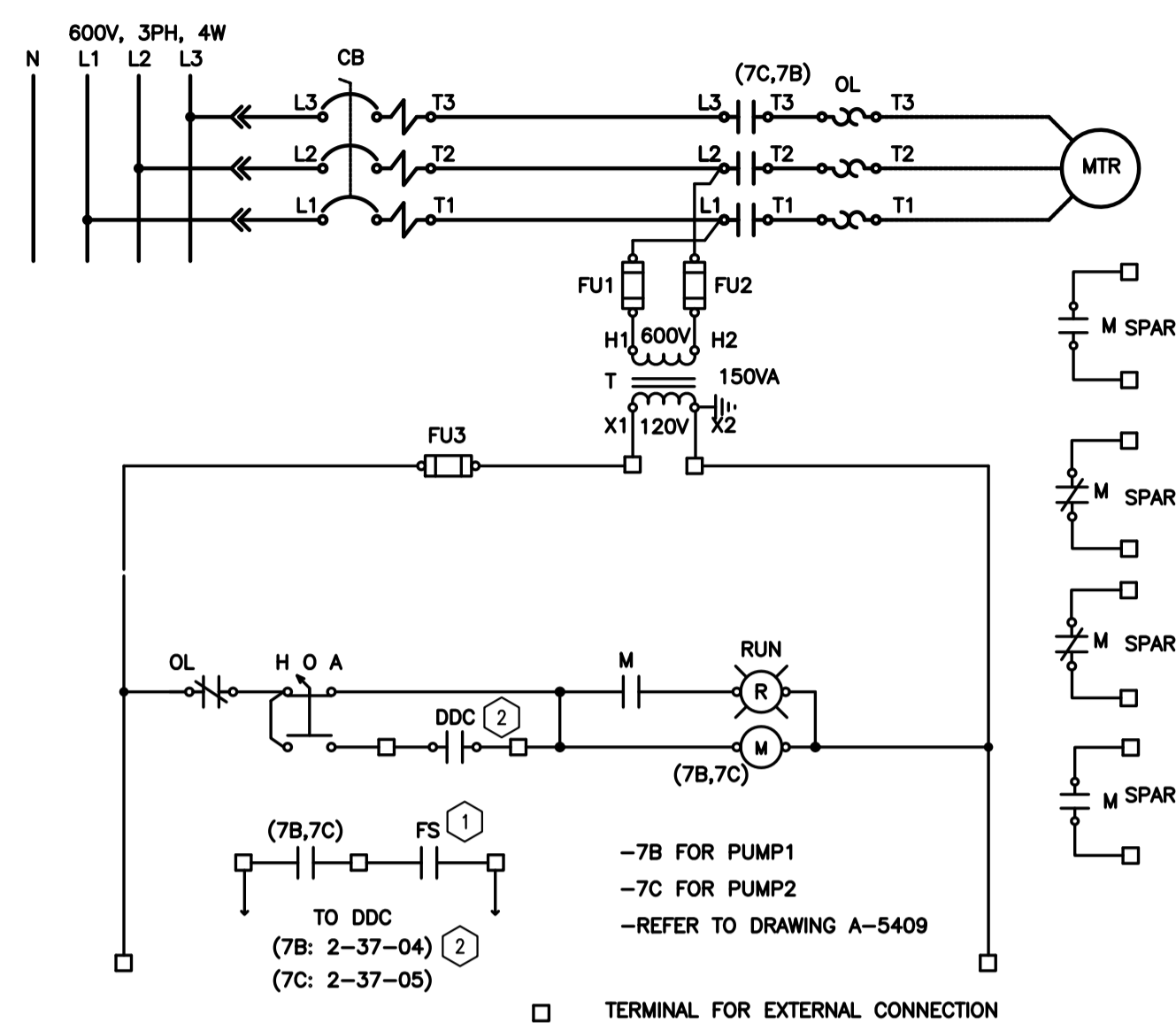
designed	conçu	date	date
FG		SEP 2018	
drawn	dessiné	scale	échelle
SW		AS NOTED	
checked	vérifié	sheet	feuille
KXL		2 of/de 4	
approved	approuvé	W.O.no.	D.T.no.
AS			
dwg.no.	dessin no.		
5571-E02			

GENERAL NOTES

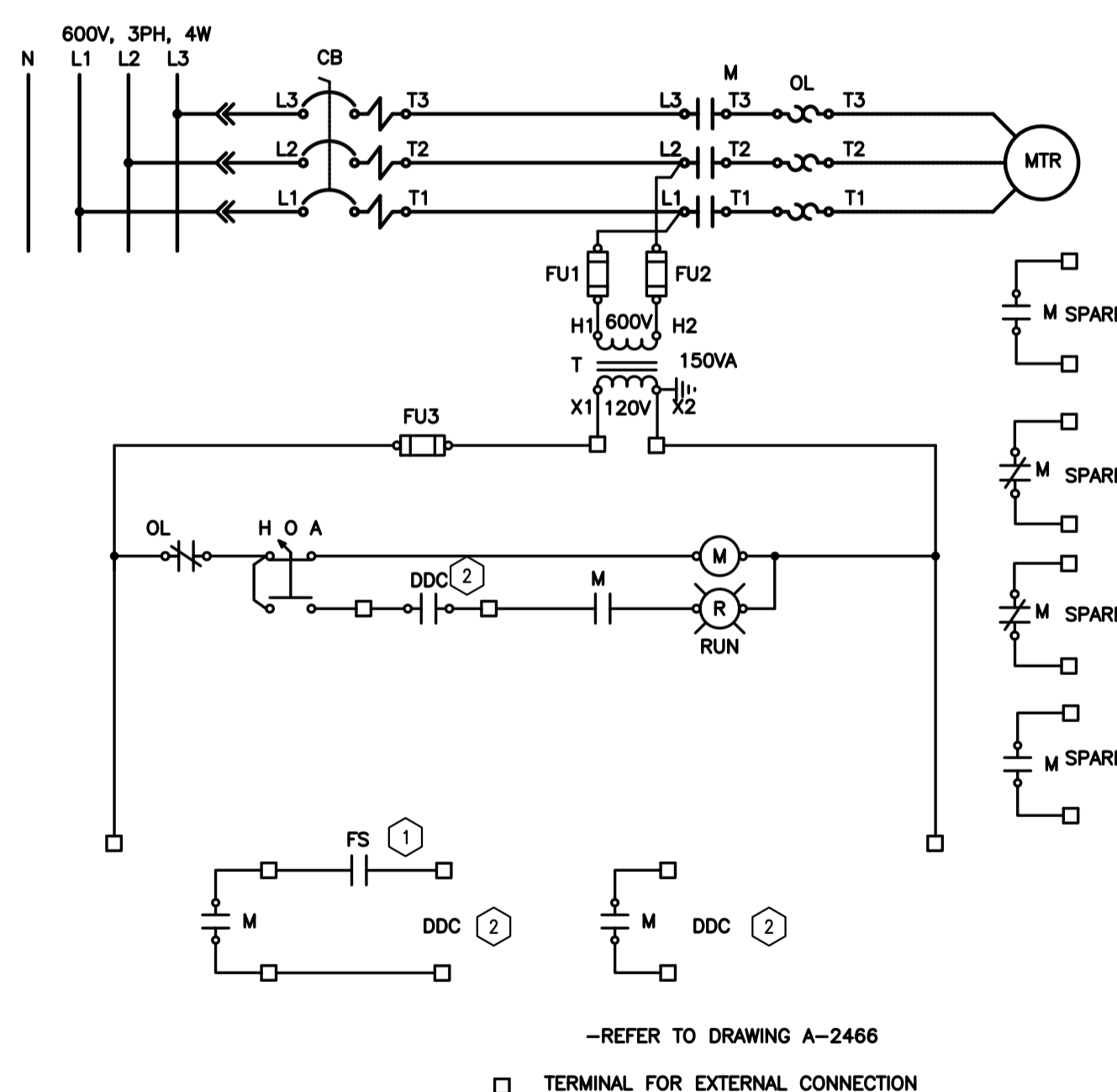
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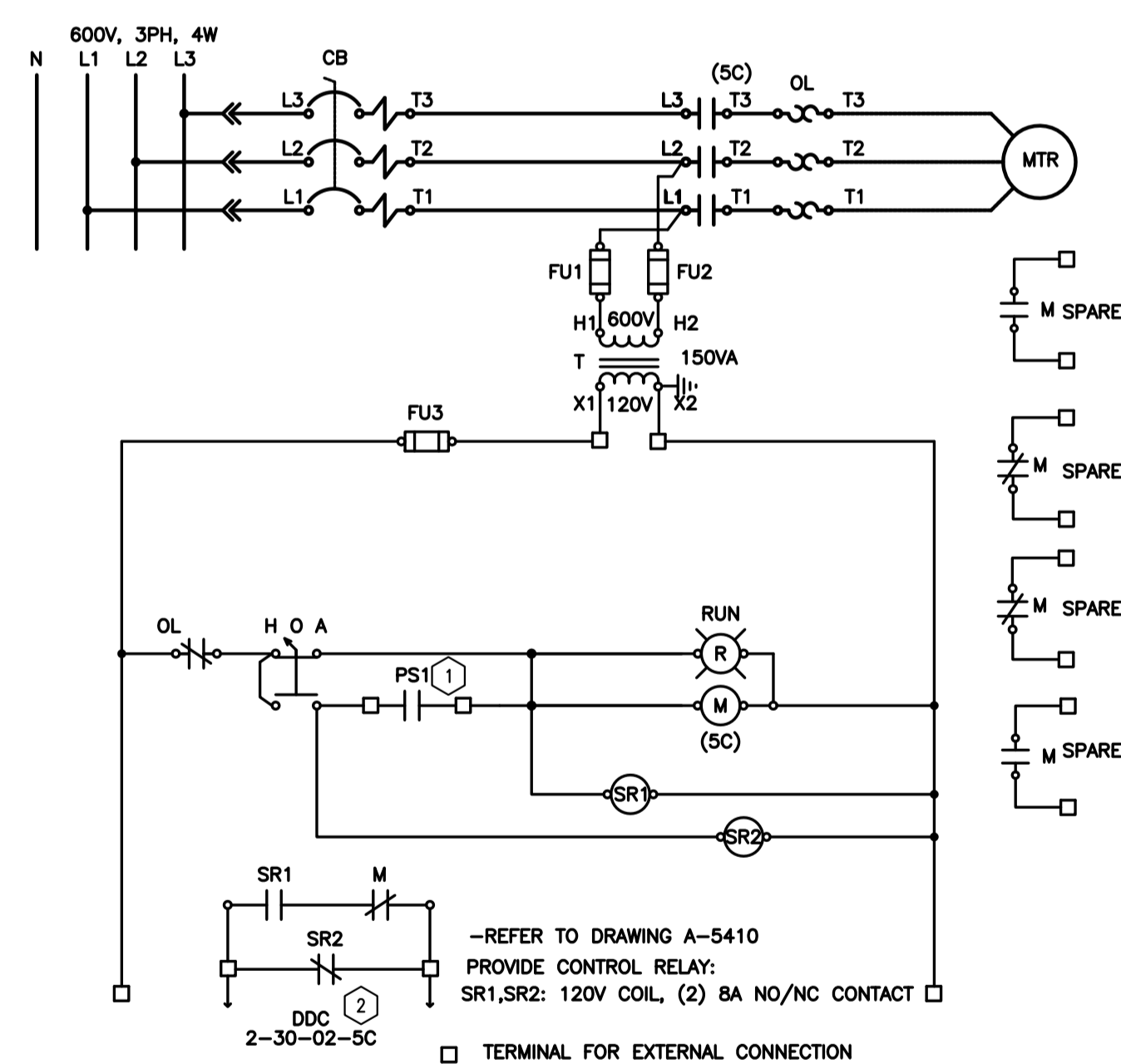
1 DOMESTIC HOT WATER CIRCULATING PUMP
 E03 SCALE: N.T.S.



2 FHW CIRC. PUMP 1&2 (7B & 7C)
 E03 SCALE: N.T.S.



3 CHILLED WATER PUMPS P-1A & P-1B
 36CWP03 & 36CWP04
 E03 SCALE: N.T.S.



4 NORTH CONTROL AIR COMPRESSOR
 E03 SCALE: N.T.S.

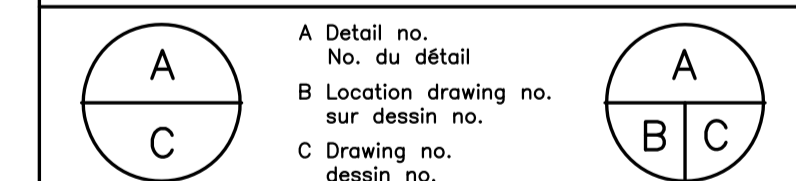
DRAWING NOTES

1. IDENTIFY EXISTING CONTROL WIRES TO MCC. PROVIDE SPLICES AND RECONNECT EXISTING CONTROL WIRES. COORDINATE WITH NRC OPERATIONS FOR INSTALLATIONS AND COMMISSIONING.
2. CARRY COST FOR AINSWORTH TO DISCONNECT AND REINSTATE EXISTING DDC POINTS:
 - CONTACT AARON DOBSON, Phone office: (613) 247-7938
 Phone mobile: (613) 203-1951, Fax: (613) 247-7990
 Aaron.Dobson@AintronCanada.com

No.	Date	Revision	By:
0	DD MM YYYY	XXXX	???

Date Printed DD MM YYYY Date imprimée

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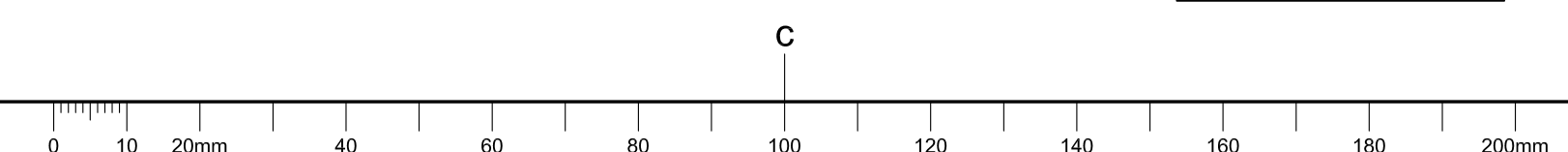
project **M36-MCC #1 AND #5 REPLACEMENT** projet

MONTREAL ROAD CAMPUS

drawing **MOTOR STARTER SCHEMATICS** dessin

designed	conçu	date	date
FG		JULY 2018	
drawn	dessiné	scale	échelle
SW		AS SHOWN	
checked	vérifié	sheet	feuille
KXL		3 of/de 4	
approved	approuvé	W.O.no.	D.T.no.
AS			

dwg.no. **5571-E03** dessin no.



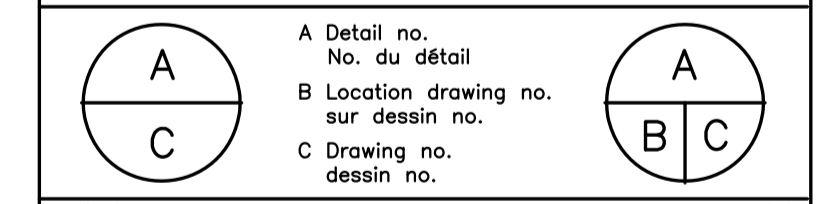
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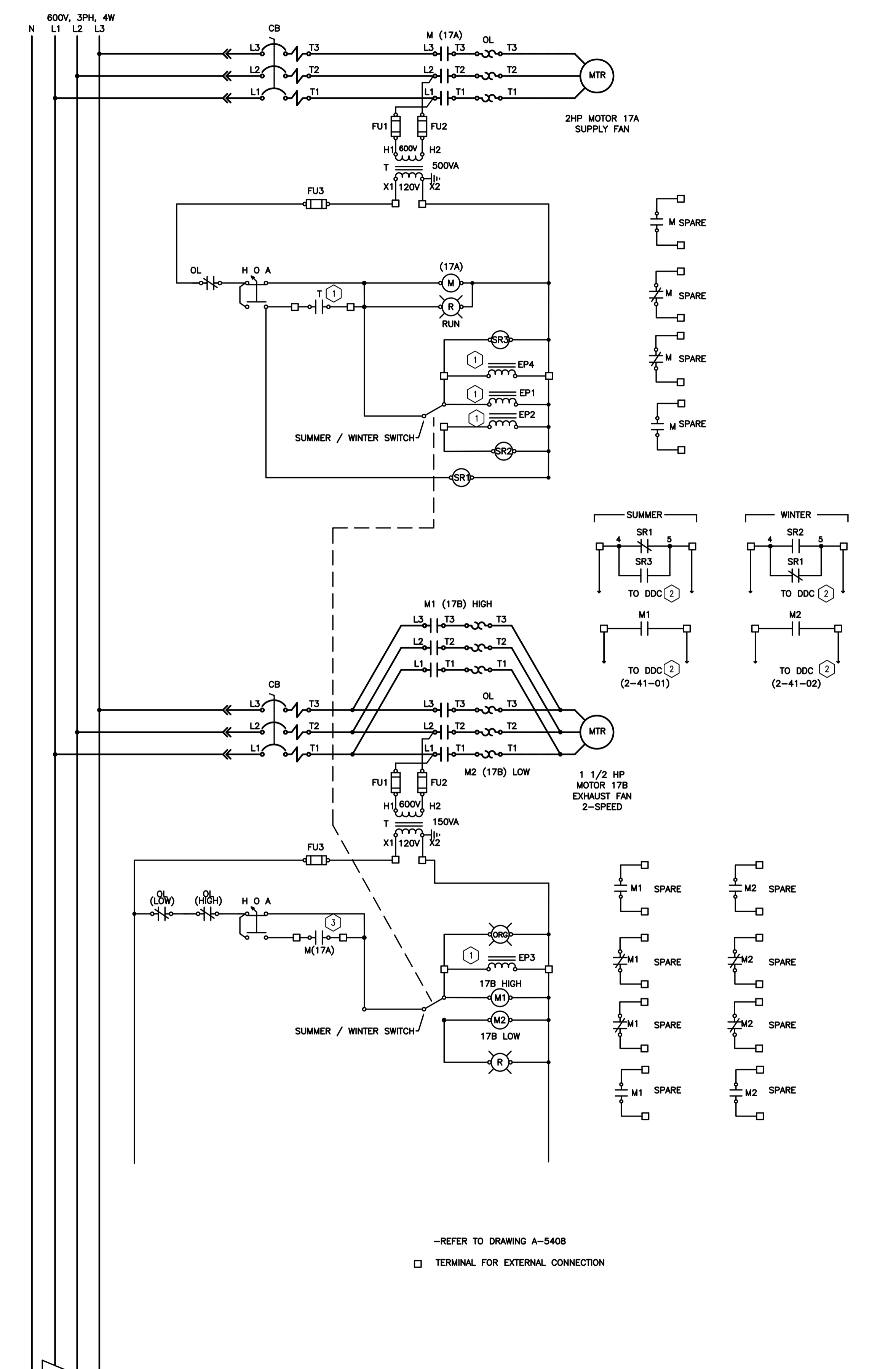


project **M36-MCC #1 AND 5 REPLACEMENT** projet

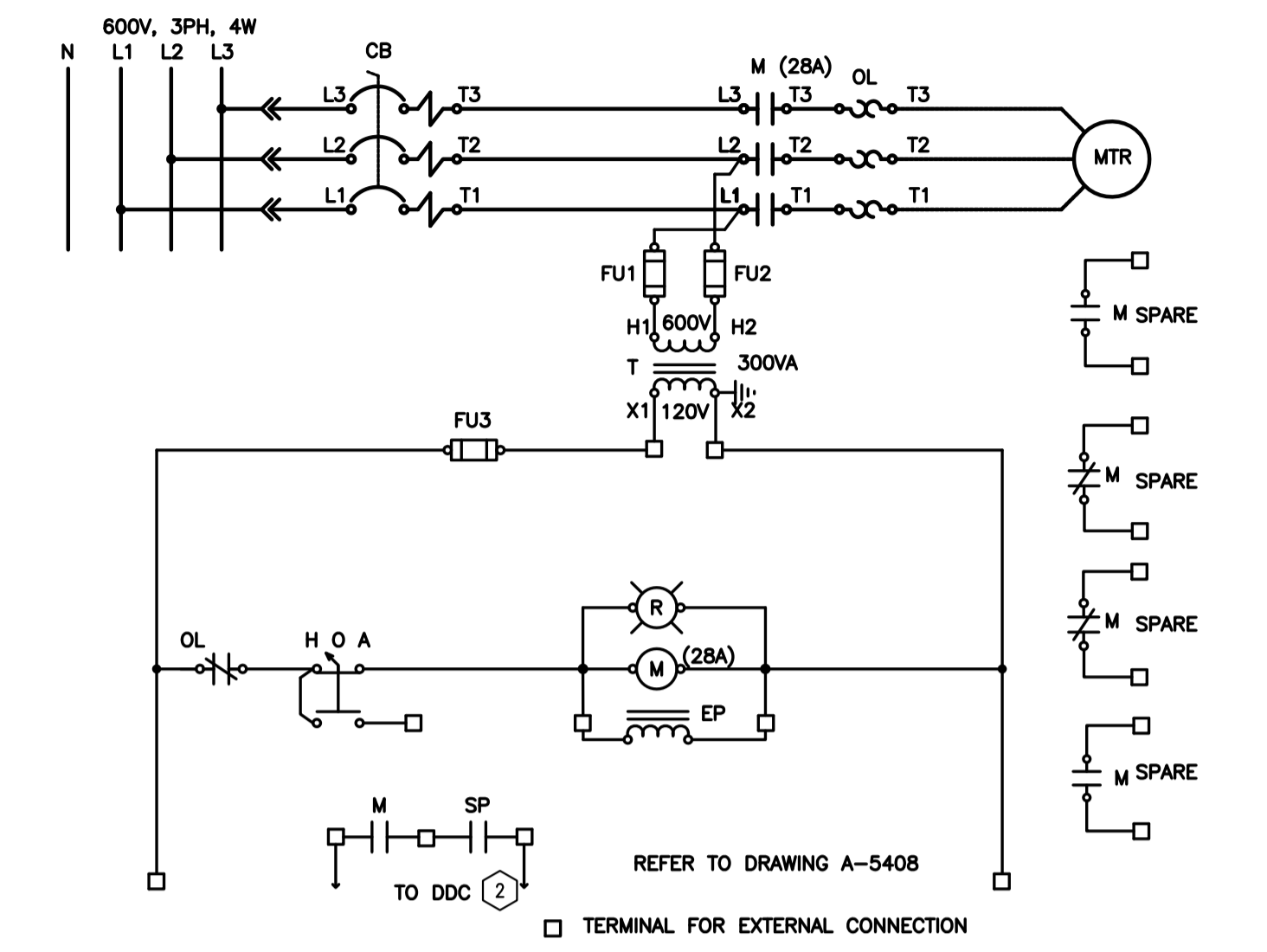
MONTREAL ROAD CAMPUS
 drawing **MOTOR STARTER SCHEMATICS** dessin

designed FG	conçu FG	date SEP 2018	date
drawn SW	dessiné SW	scale AS SHOWN	échelle
checked KXL	vérifié KXL	sheet 4 of/de 4	feuille
approved AS	approuvé AS	W.O.no.	D.T.no.
dwg.no.	dessin no.		

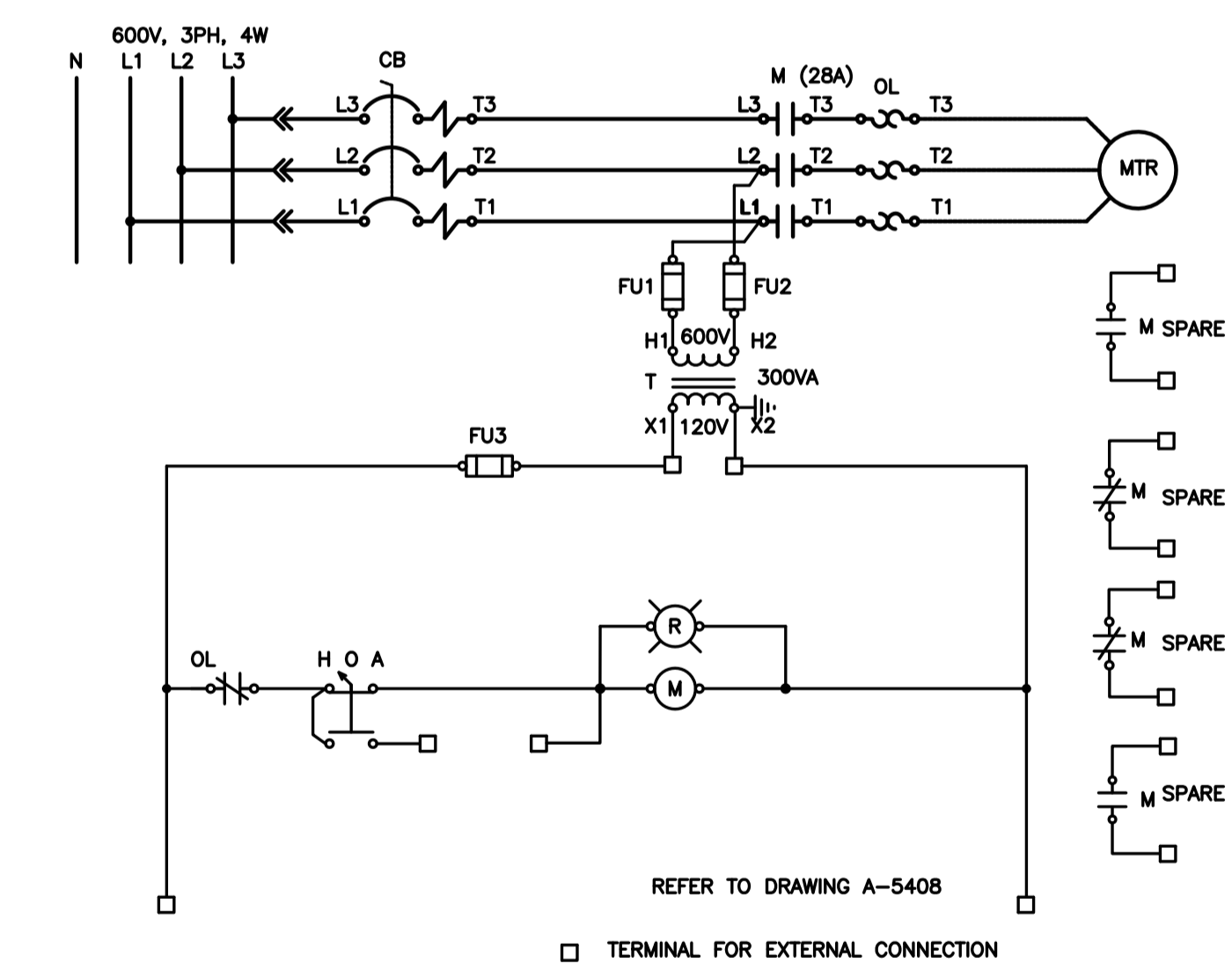
5571-E04



1 SYSTEM 17 MECH RM VENTILATION
 E04 SCALE: N.T.S.



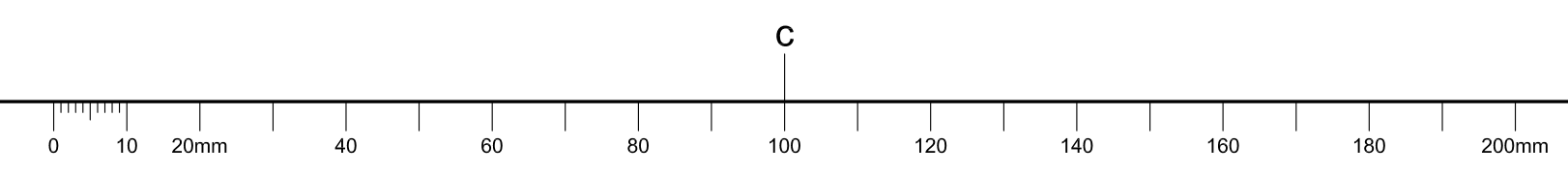
2 ENTRANCE SUPPLY FAN (28A) **1**
 E04 SCALE: N.T.S.

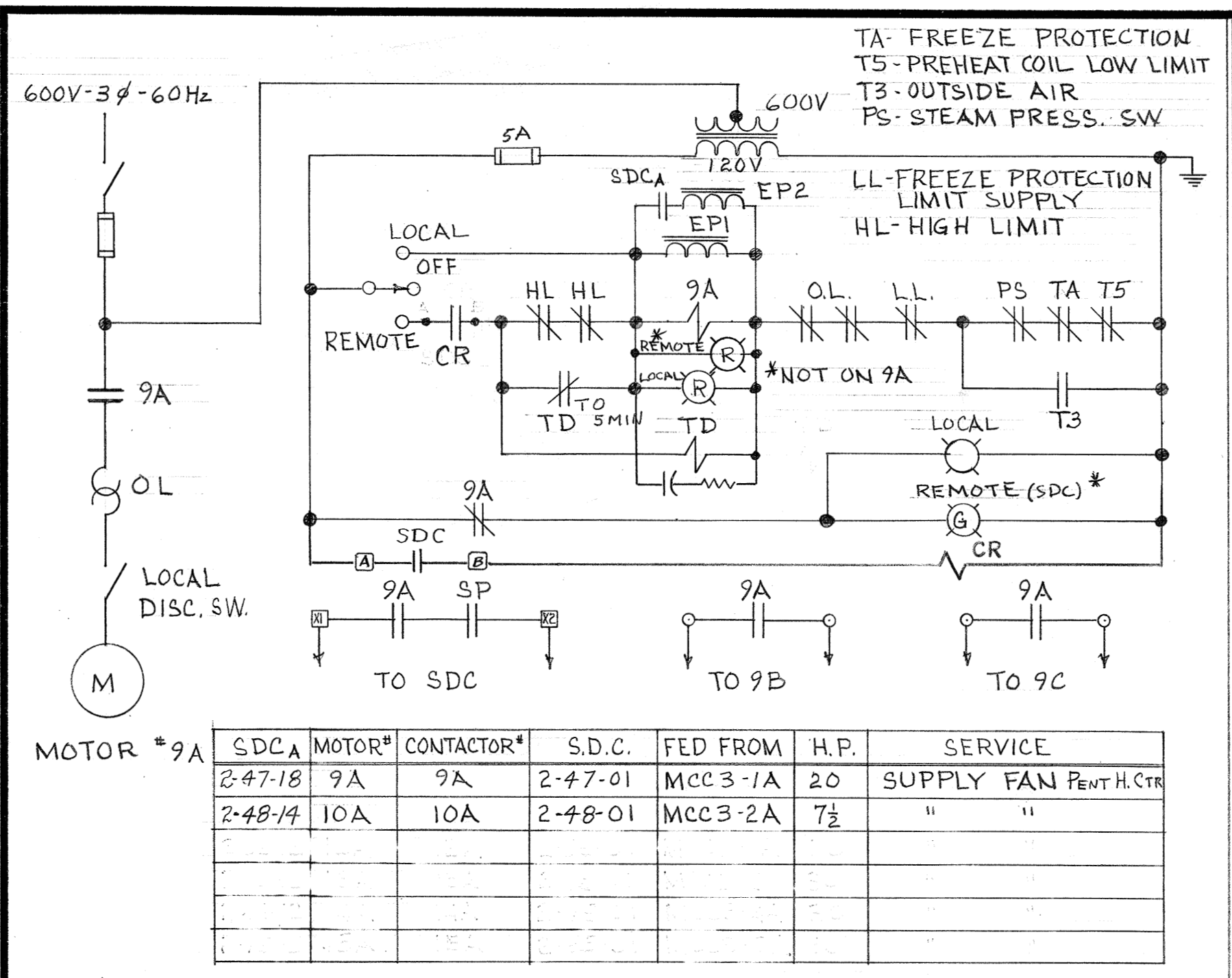


3 CONDENSATE RETURN PUMP & VORTISAND
 E04 SCALE: N.T.S.

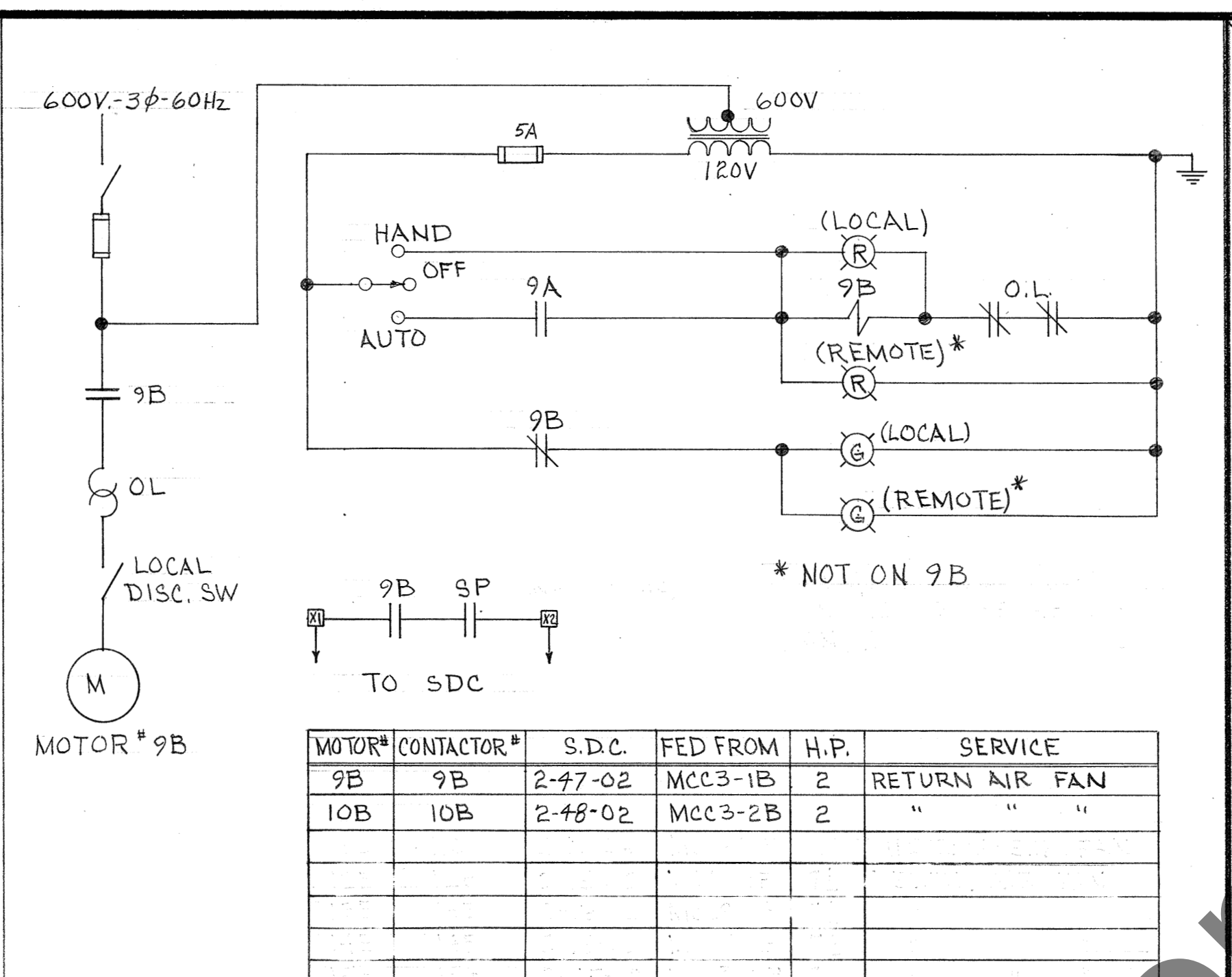
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 Phone mobile: (613) 203-1951, Fax: (613) 247-7990
 Aaron.Dobson@AltronCanada.com
3. INTERCONNECTION WIRE TO BE COMPLETED ON SITE.

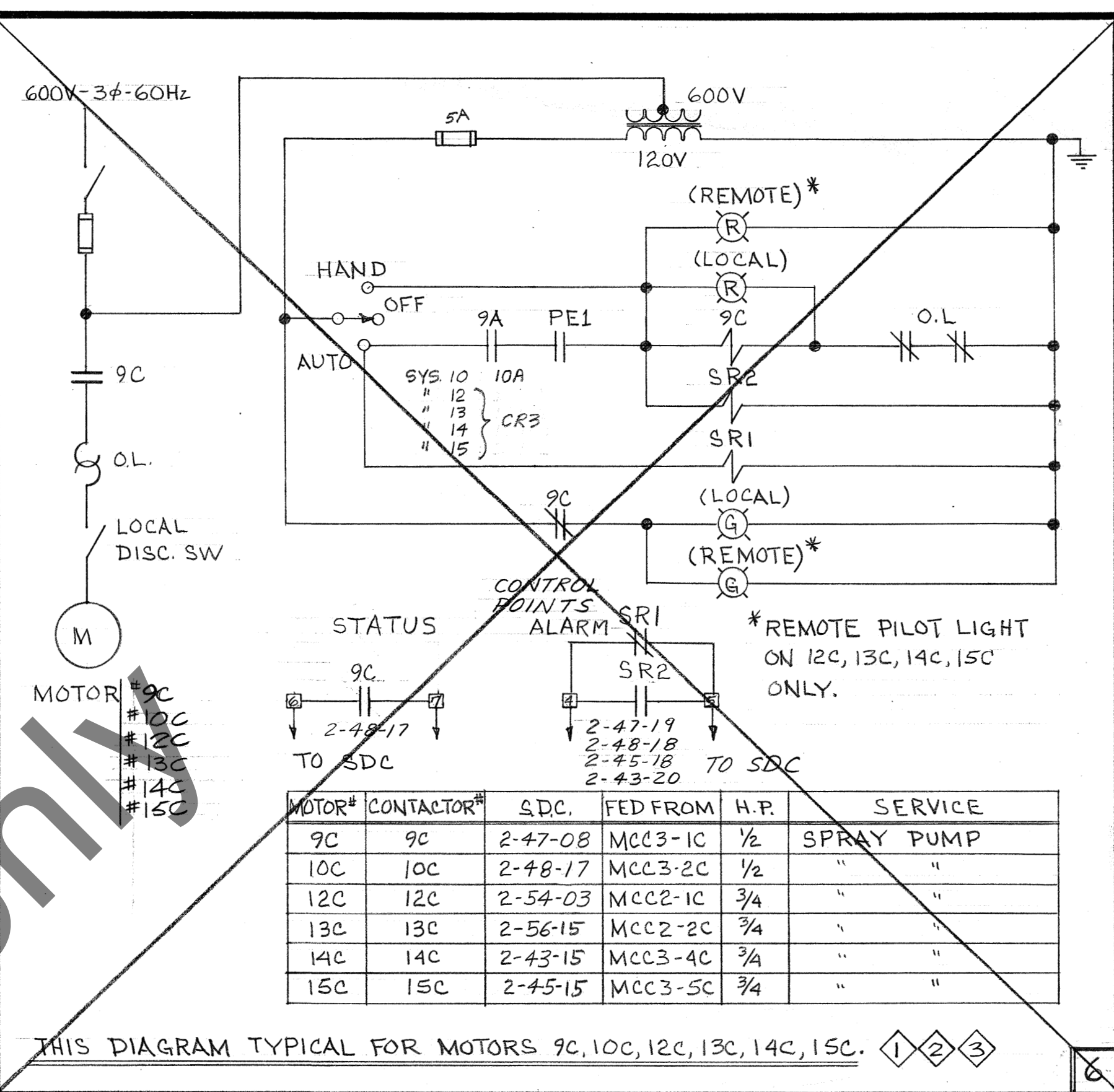




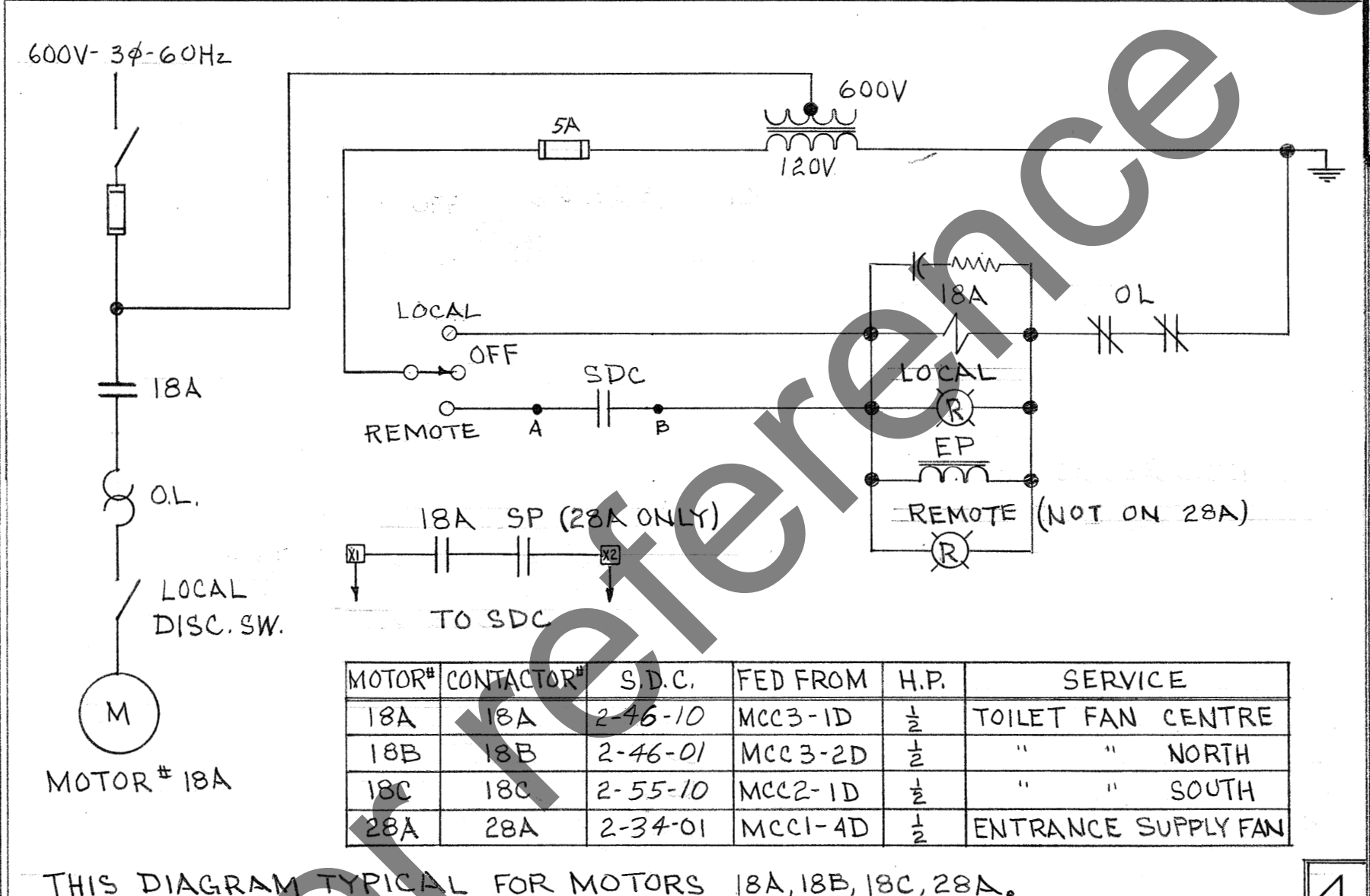
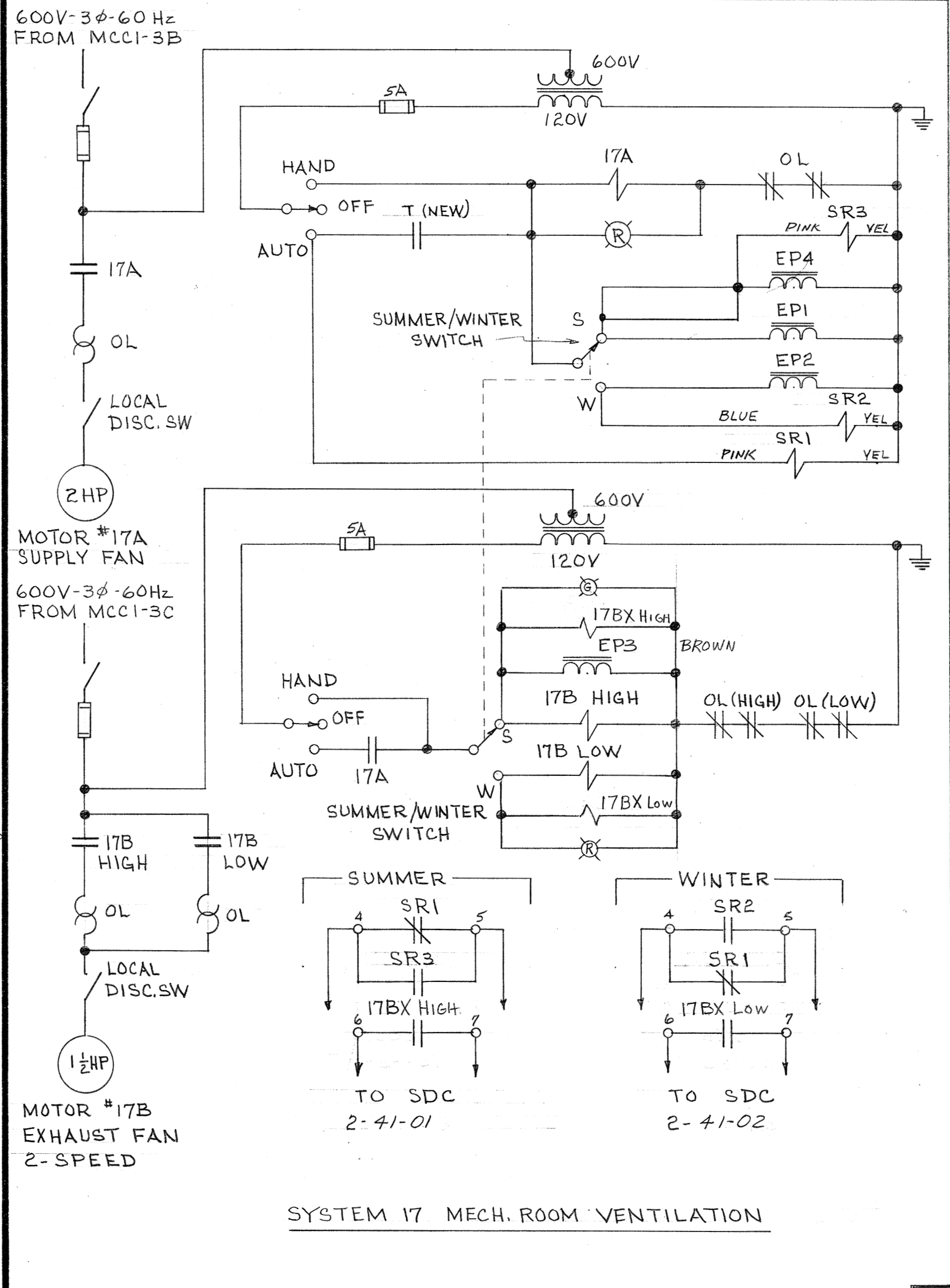
THIS DIAGRAM TYPICAL FOR MOTORS 9A, 10A



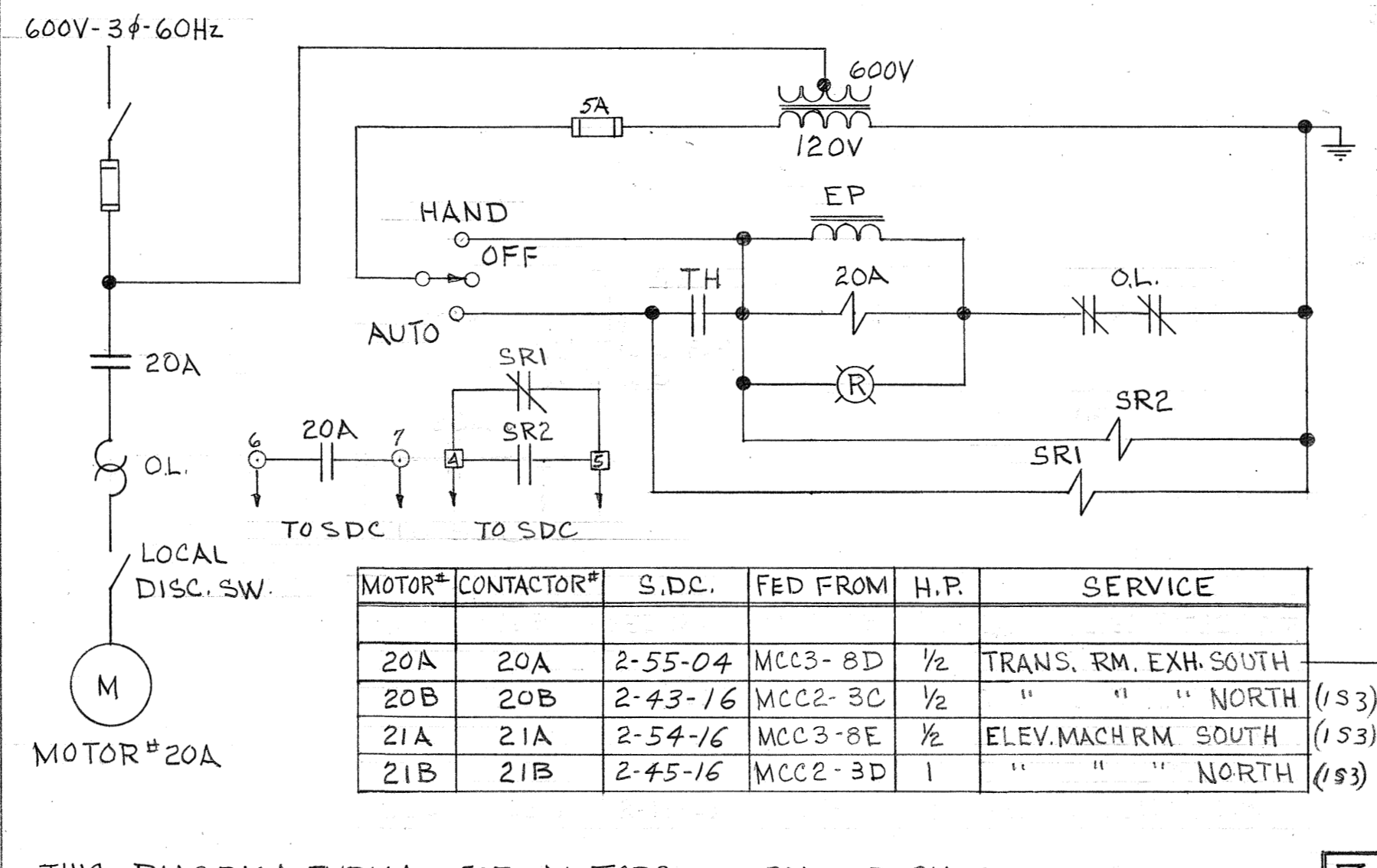
THIS DIAGRAM TYPICAL FOR MOTORS 9B, 10B,



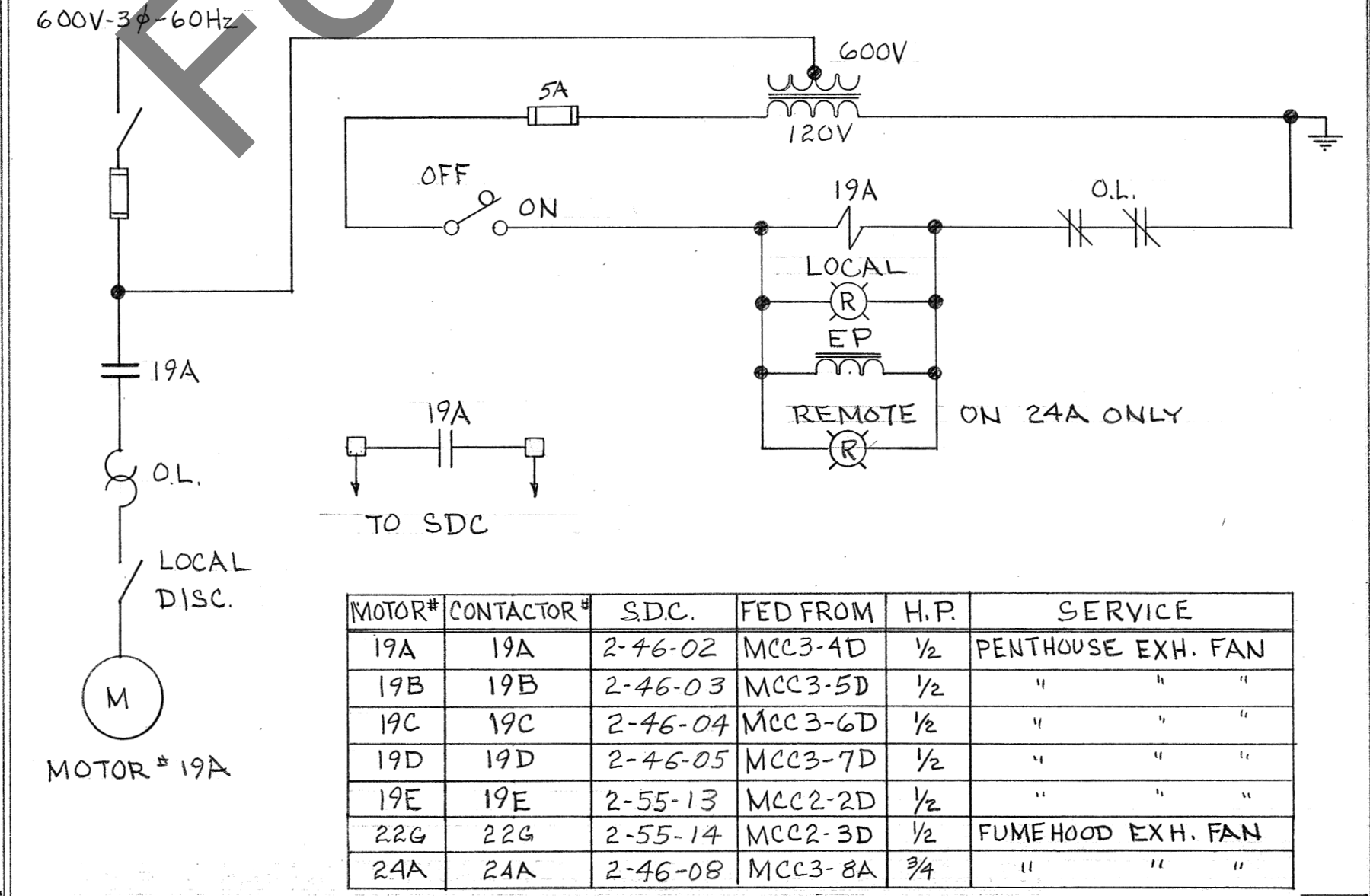
THIS DIAGRAM TYPICAL FOR MOTORS 9C, 10C, 12C, 13C, 14C, 15C.



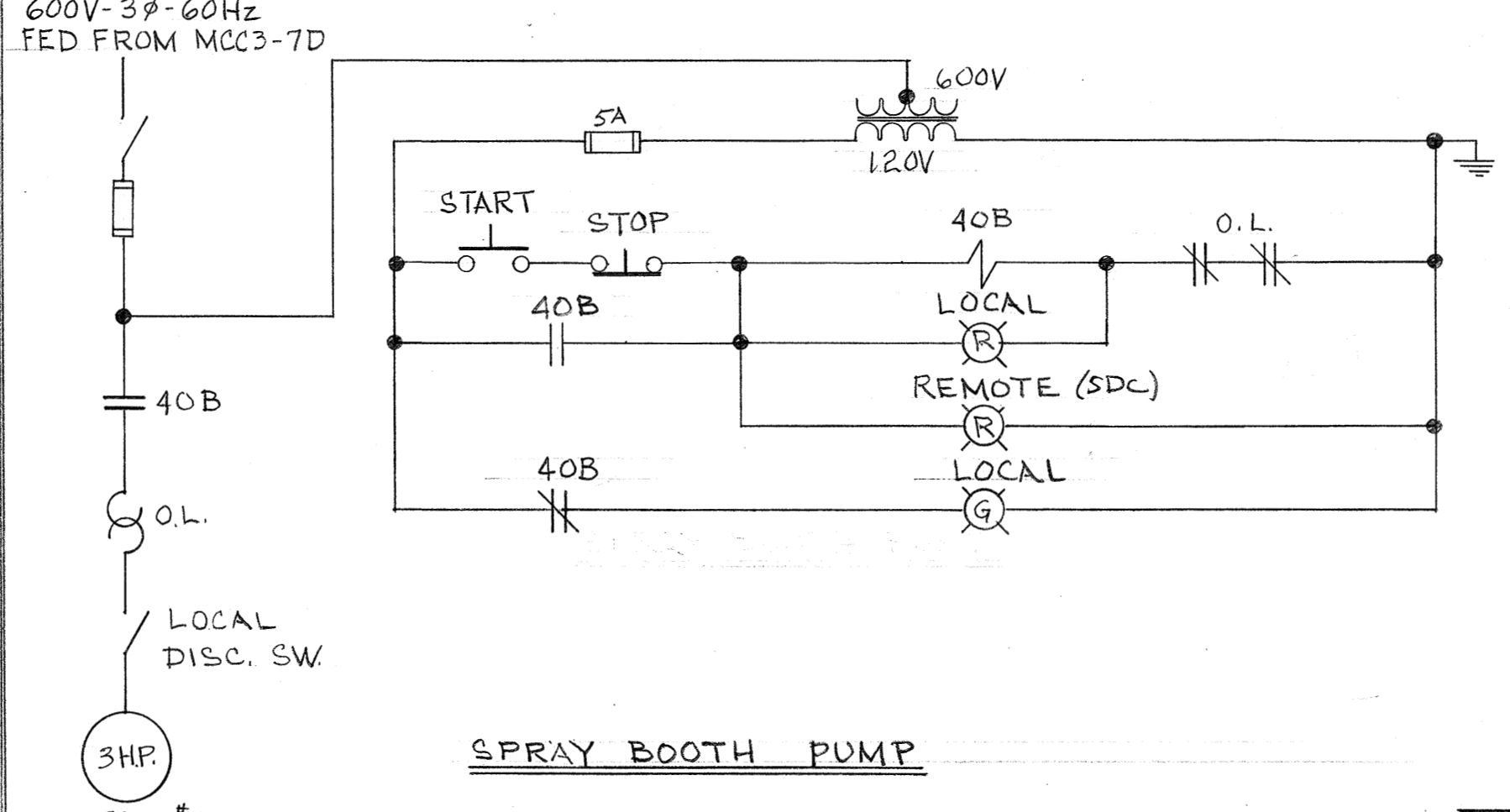
THIS DIAGRAM TYPICAL FOR MOTORS 18A, 18B, 18C, 28A.



THIS DIAGRAM TYPICAL FOR MOTORS 20A, 20B, 21A, 21B.



THIS DIAGRAM IS TYPICAL FOR MOTORS 19A, 19B, 19C, 19D, 19E, 22G, 24A.



no.	date	revision	by
1	26-9-75	ADDED DWG REF.	BRC
2	6-1-77	SDC UPDATE	PR
3	5-11-84	REVISED SDC POINTS	BCB
4	17-4-85	DELETED 12A,B,13A,B,14A,B,15A,B,15C	WN
5	8-6-11	WO #G36503 CHANGES	WN

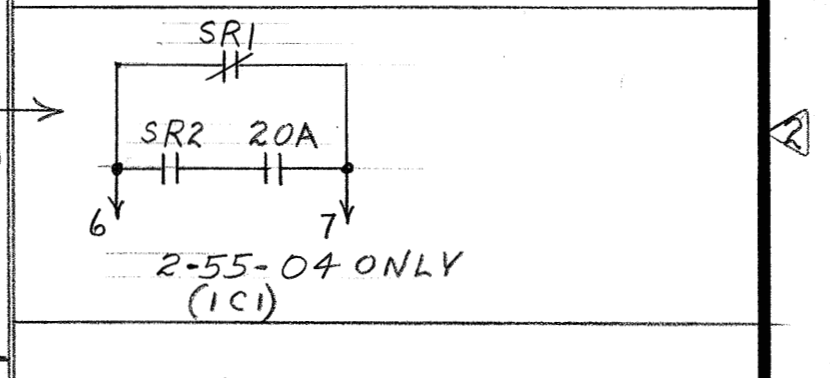
SYSTEMS ON THIS DWG.

SYS #	DIA.#	SYS #	DIA.#
9A	1	15C	6
9B	3		
9C	6	17A	2
10A	1	17B	2
10B	3	18A	4
10C	6	18B	4
		18C	4
		19A	5
		19B	5
		19C	5
		19D	5
		19E	5
13C	6	20A	7
		20B	7
		21A	7
14C	6	21B	7
		22G	5
		24A	5
		28A	4
		40B	8

WO #G36503 BENOVOATIONS

- 1 DISCONNECT & REMOVE THE EXISTING CONDUIT + WIRING BACK TO THE MCC. (#2 & #3)
- 2 NRC TO ISOLATE THE SDC IN THE 'DGP' PANEL.
- 3 DISCONNECT & REMOVE SDC SYSTEM + TURN OVER TO NRC

- SEE ALSO DWGS:
- A-5409 SCHEMATIC
 - A-5410 DIAGRAMS
 - A-2468 REFRIG. DIAGRAMS
 - A-2467 COOLING TOWER FANS
 - A-5352 SYSTEMS 9A, 9B, 9C,
 - A-5353 " 10A, 10B, 10C, 13A,
 - " 13B, 13C, 15A, 15B, 15C
 - A-5354 " 12A, BC, 14A, BC
 - A-9439 SYSTEMS 12A, B, 13A, B,
 - " 14A, B, 15A, B SCHEMATICS



WO #G36503
W.O. 136002
W.O. 75-12-119

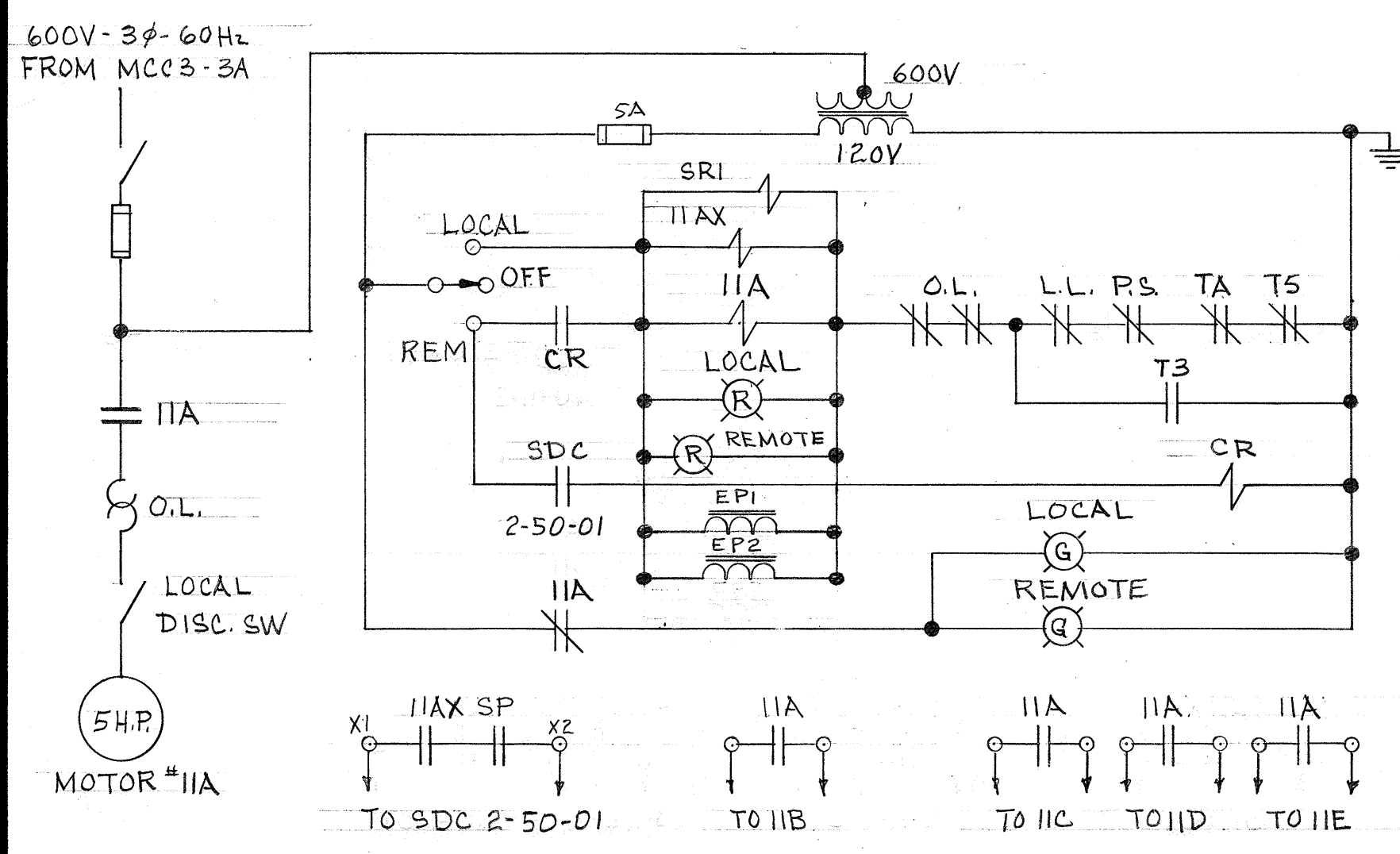
National Research Council Canada / Conseil national de recherches Canada

Plant Engineering Services / Service d'entretien et de réparations techniques

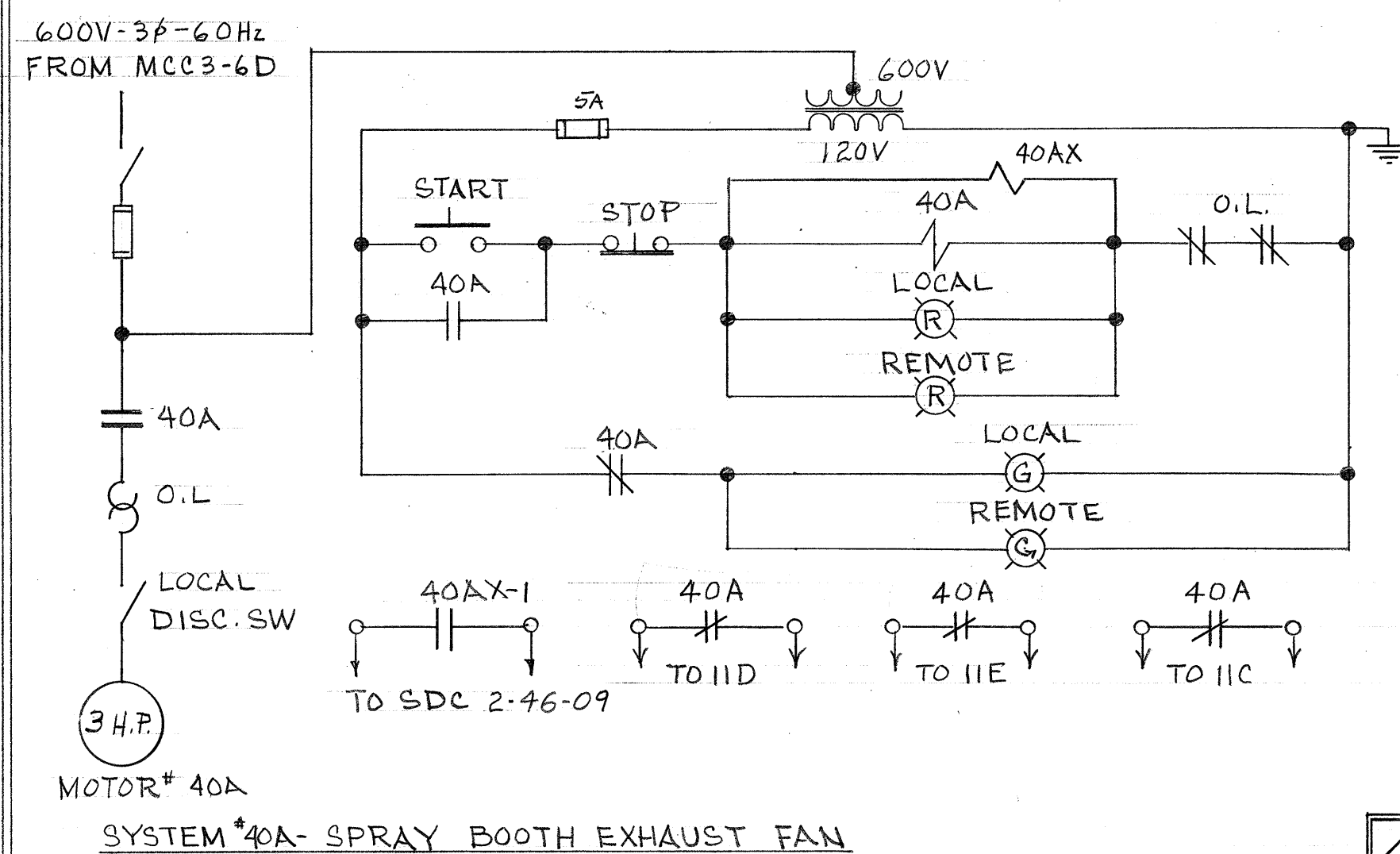
Ottawa, Ontario K1A 0R6 / Ottawa, Ontario K1A 0R6

BUILDING M-36
MONTREAL ROAD LABORATORIES
ELECTRICAL
SCHEMATIC DIAGRAMS OF
MOTOR CONTROLS

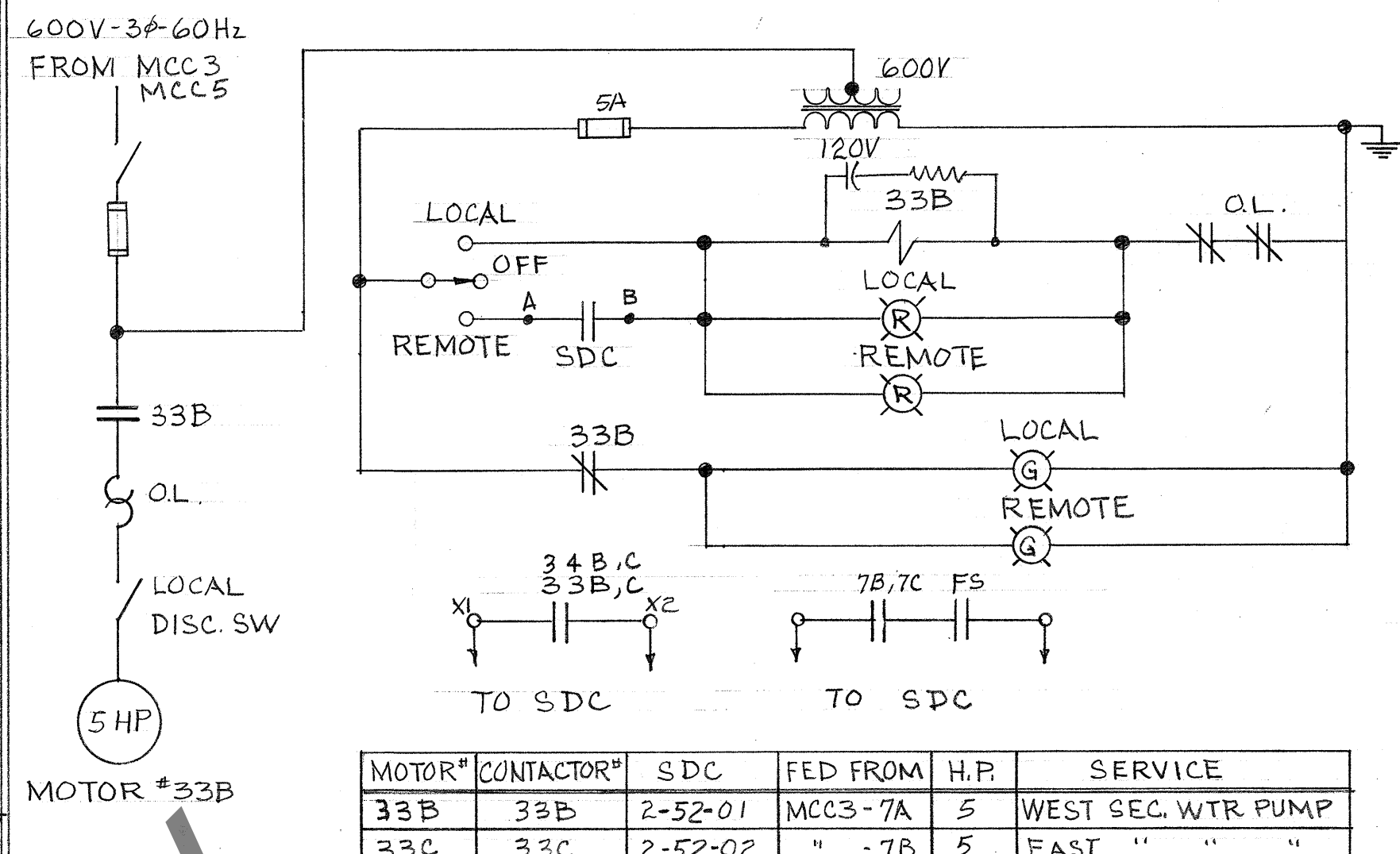
designed	consp	date	scale
R. BOUDREAU		27 JUNE 1975	
drawn	checked	scale	sheet
B.R. CHARRON		N.T.S.	1 of 3
checked	verified	sheet	feuille
PR		1	3
approved	approved	desig. no.	desig. no.
			A-5408-F5



SYSTEM #11A SUPPLY FAN - CAFETERIA, MACHINE SHOP.



SYSTEM #40A SPRAY BOOTH EXHAUST FAN.

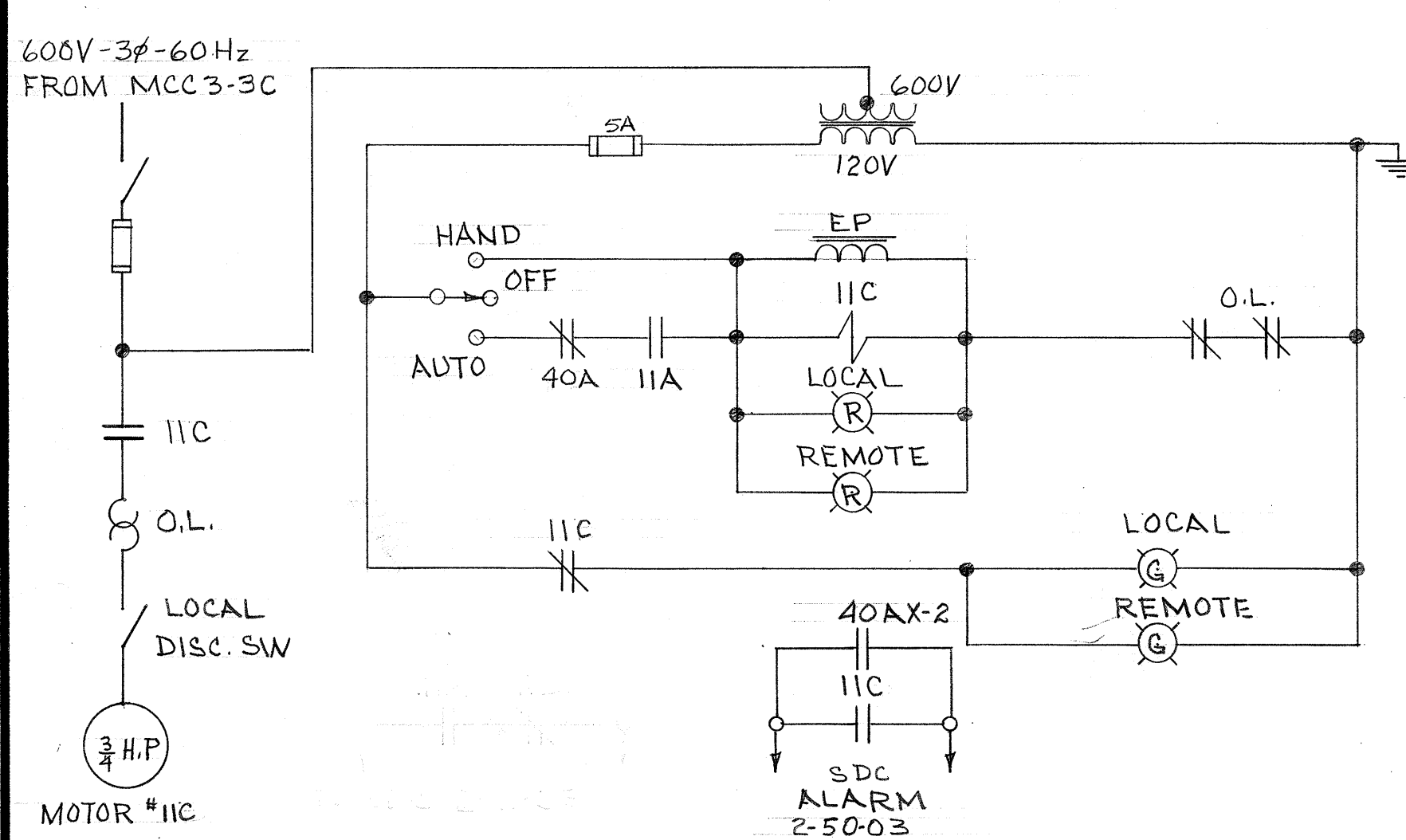


MOTOR#	CONTACTOR#	SDC	FED FROM	H.P.	SERVICE
33B	33B	2-52-01	MCC3-7A	5	WEST SEC. WTR PUMP
33C	33C	2-52-02	" -7B	5	EAST " "
34B	34B	2-52-13	" -6A	10	WEST BOOSTER PUMP
34C	34C	2-53-05	" -6B	10	EAST " "
7B	7B	2-37-04	MCC5-1B	3	FHW CIRC. PUMP
7C	7C	2-37-05	" -1C	3	" " "

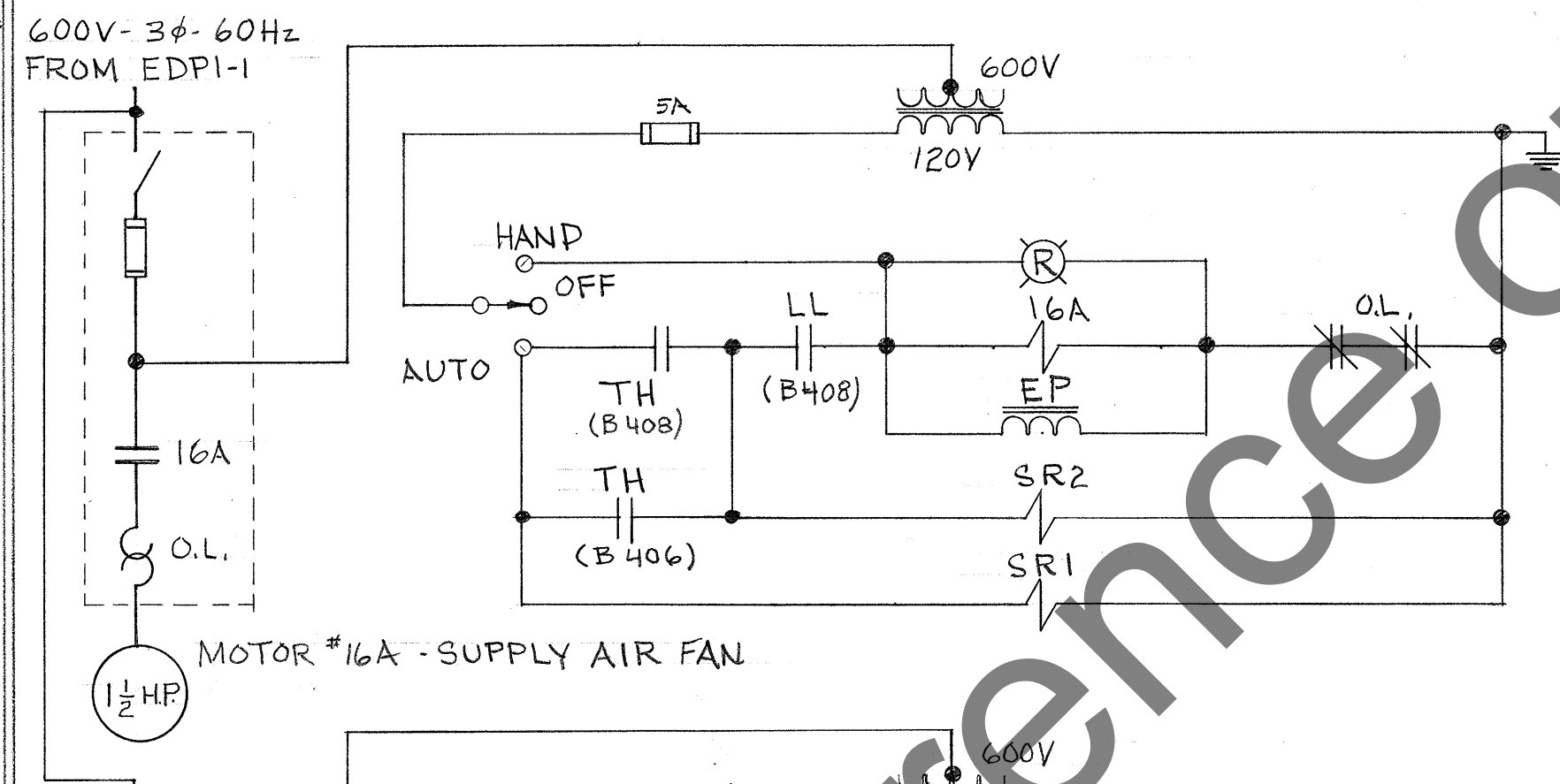
no.	date	REV. #	revision	by
1	26-7-75	REV. #11A		BRC
2	10-11-75	REV. #11A, 11D, 11E, 32A, 32B		BRC
3	2-2-76	ADD. 7B & 7C; MOVED 11E TO A-5410		BRC
4	25-8-76	SDC UPDATED FIELD CHANGES		PR
5	14-2-79	LAB AIR COMP. TO ALTERNATOR		PR
6	22-6-79	ADD SEP. BLEED-OFF SOLENOIDS		PR
7	9-2-84	REVISED STANDBY LAB AIR COMP.		BCB
8	5-11-84	REVISED SDC POINTS		BCB
9	20-7-94	REMOVED SYSTEM #11D		BCB

SYSTEMS ON THIS DWG.

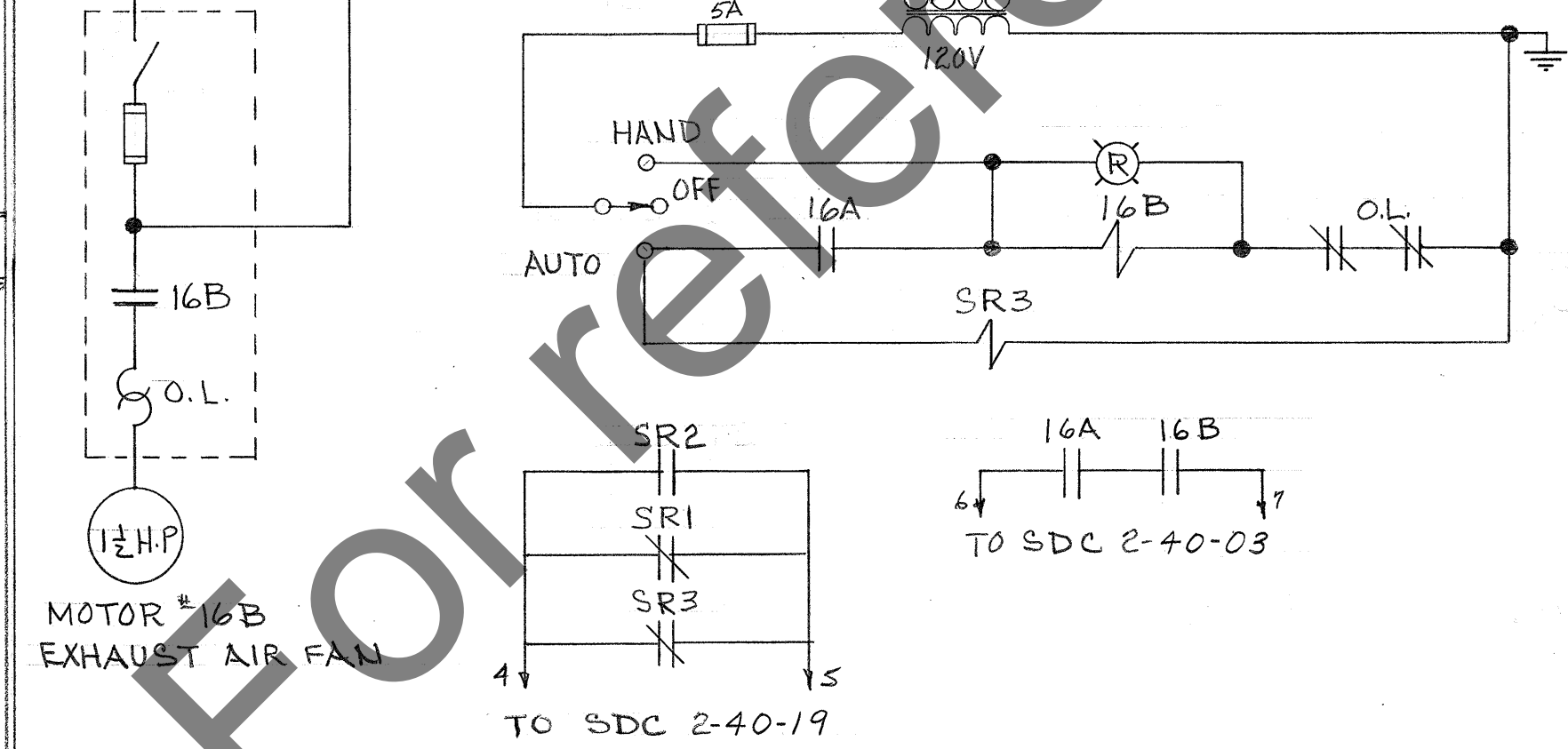
SYS #	DIA #	SYS #	DIA #
11A	1	33B	7
11B	3	33C	7
11C	2	34B	7
11D	6	34C	7
11E	6	40A	4
16A	5	39C	9
16B	5	8D	9
32A	8	7B	7
32B	8	7C	7



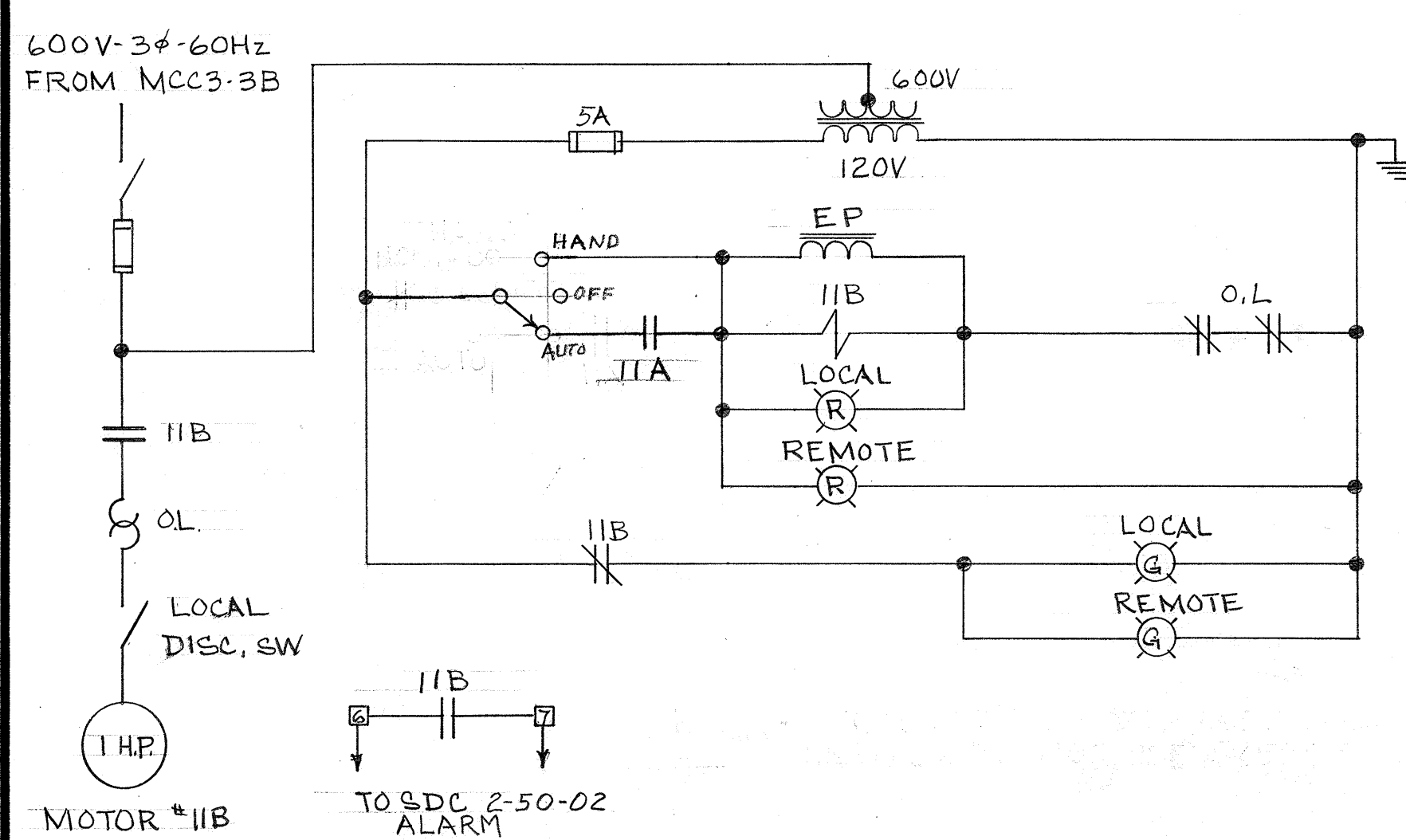
SYSTEM #11C EXHAUST FAN - MACHINE SHOP.



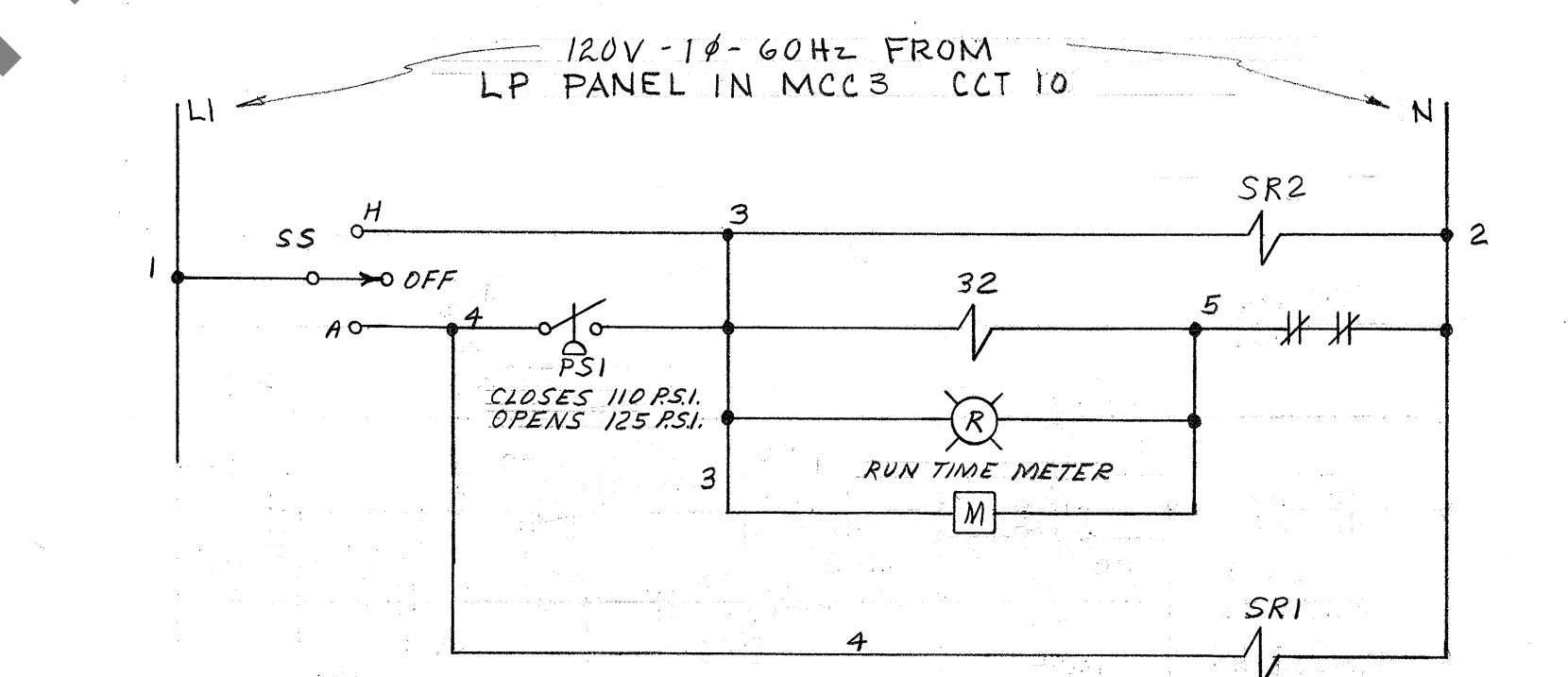
MOTOR #16A SUPPLY AIR FAN.



SYSTEM #16 - ELEC. RM & DIESEL RM (RMS B406, B408)

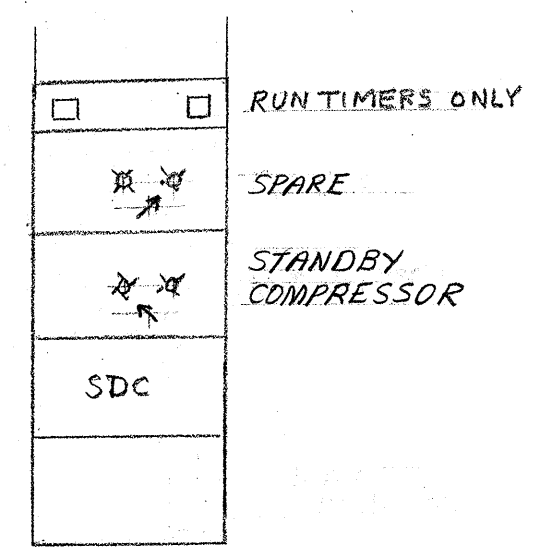


SYSTEM #11B EXHAUST FAN - CAFETERIA.



MOTOR #32

SEE ALSO DWG :
 A-5408 } SCHEMATIC
 A-5410 } DIAGRAMS
 A-2961 - LAB AIR COMPRESSORS
 A-5371 - SYSTEM #11 MECH.



AIR COMPR. STARTER

W.O.*75-12-119

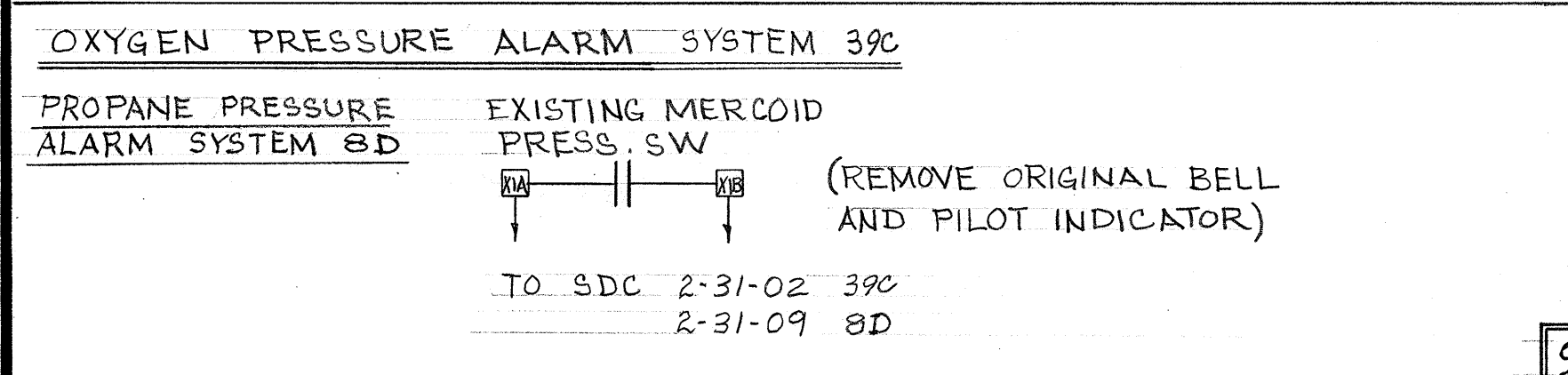
National Research Council Canada / Conseil national de recherches Canada

Plant Engineering Services / Service d'entretien et de réparations techniques

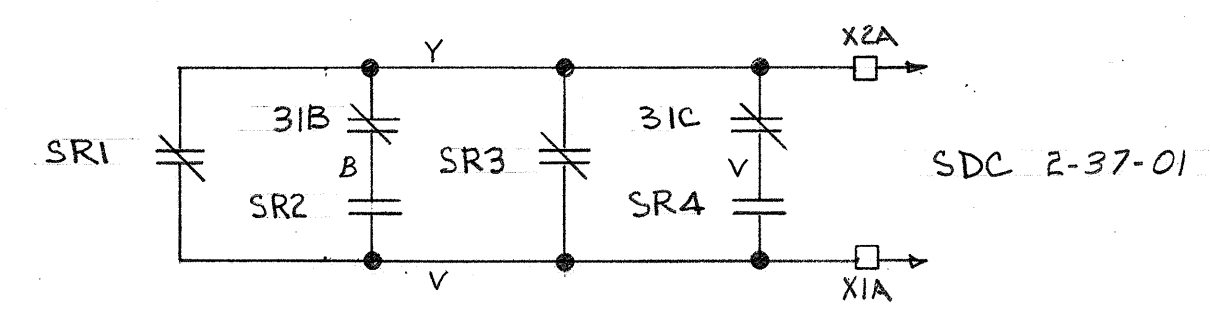
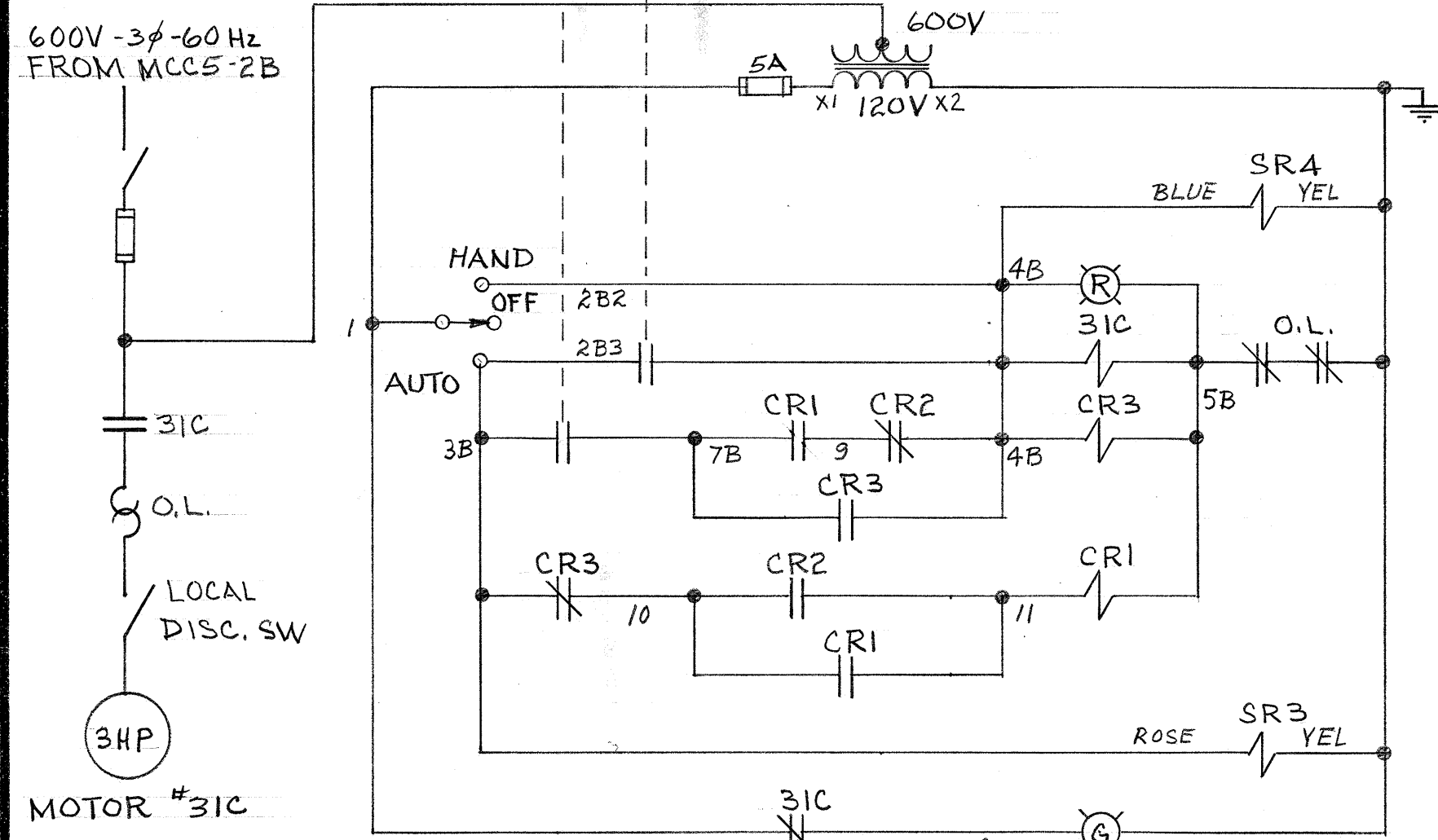
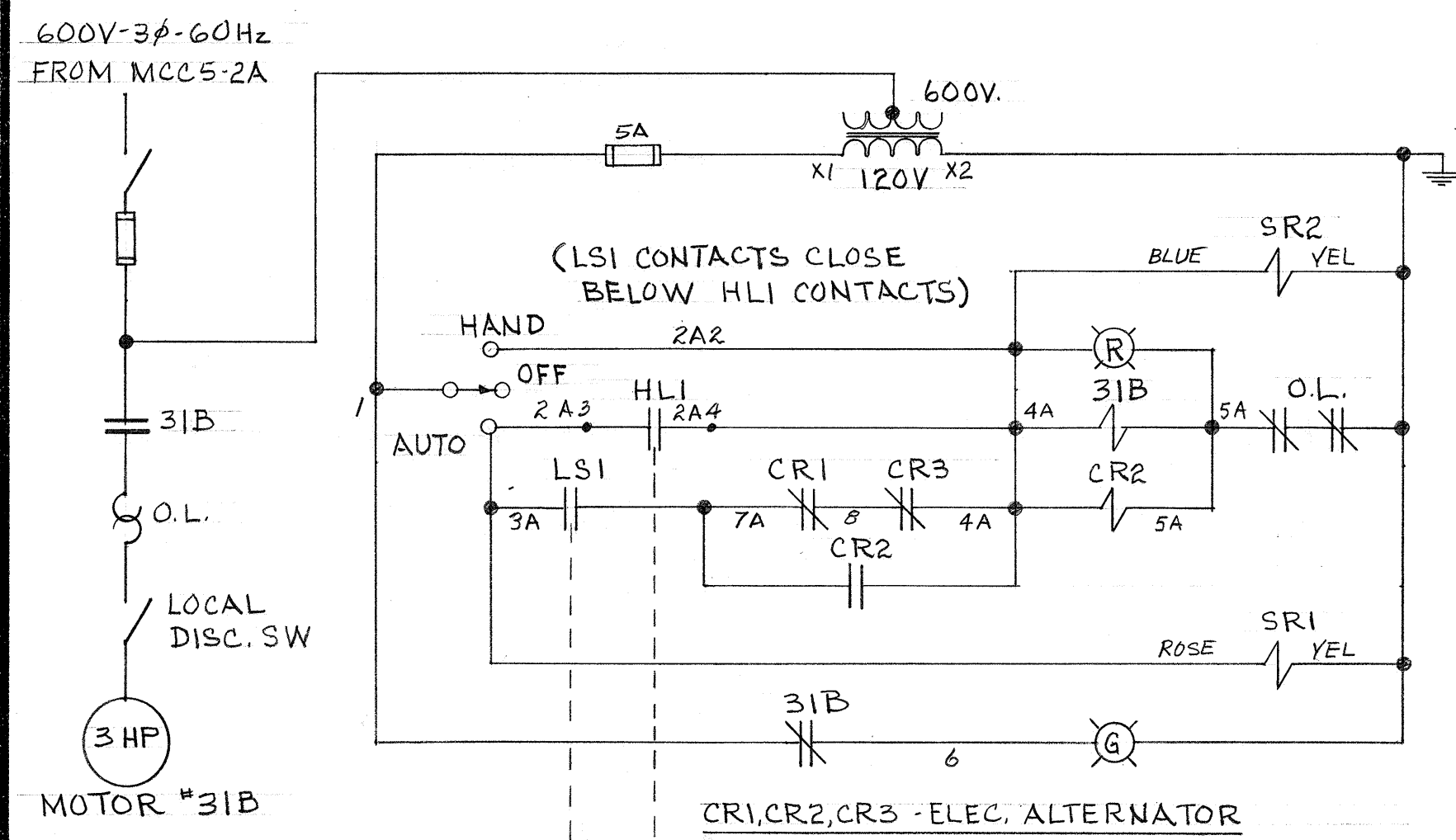
Ottawa, Ontario K1A 0R6 / Ottawa, Ontario K1A 0R6

BUILDING M-36
 MONTREAL ROAD LABORATORIES
 ELECTRICAL
 SCHEMATIC DIAGRAMS OF
 MOTOR CONTROLS

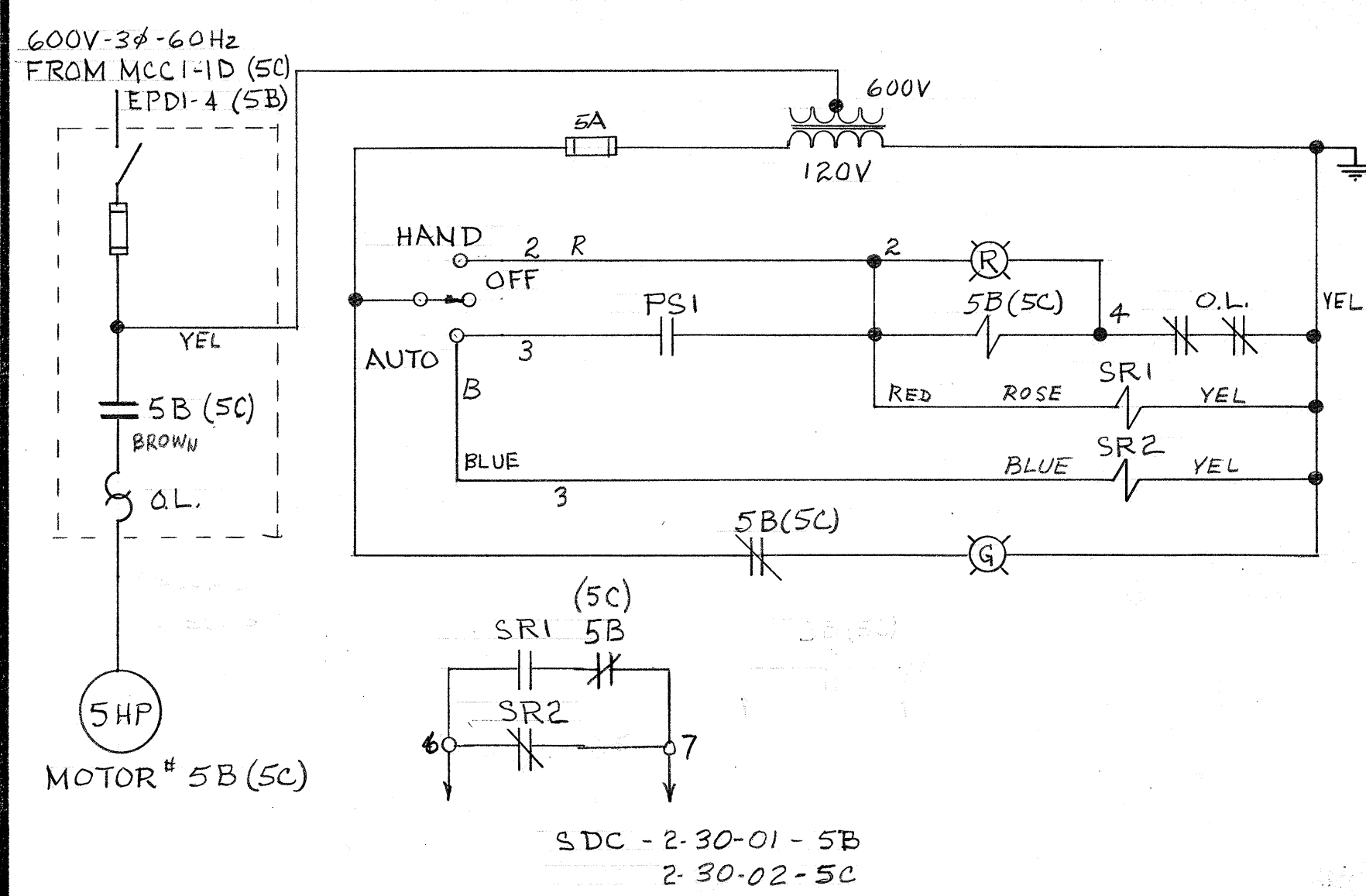
designed	consp.	date	scale
B.R. CHARRON	PR	4 SEPT., 1975	N.T.S.
checked	PR	sheet 2 of 3	
approved		dwg. no. A-5409	



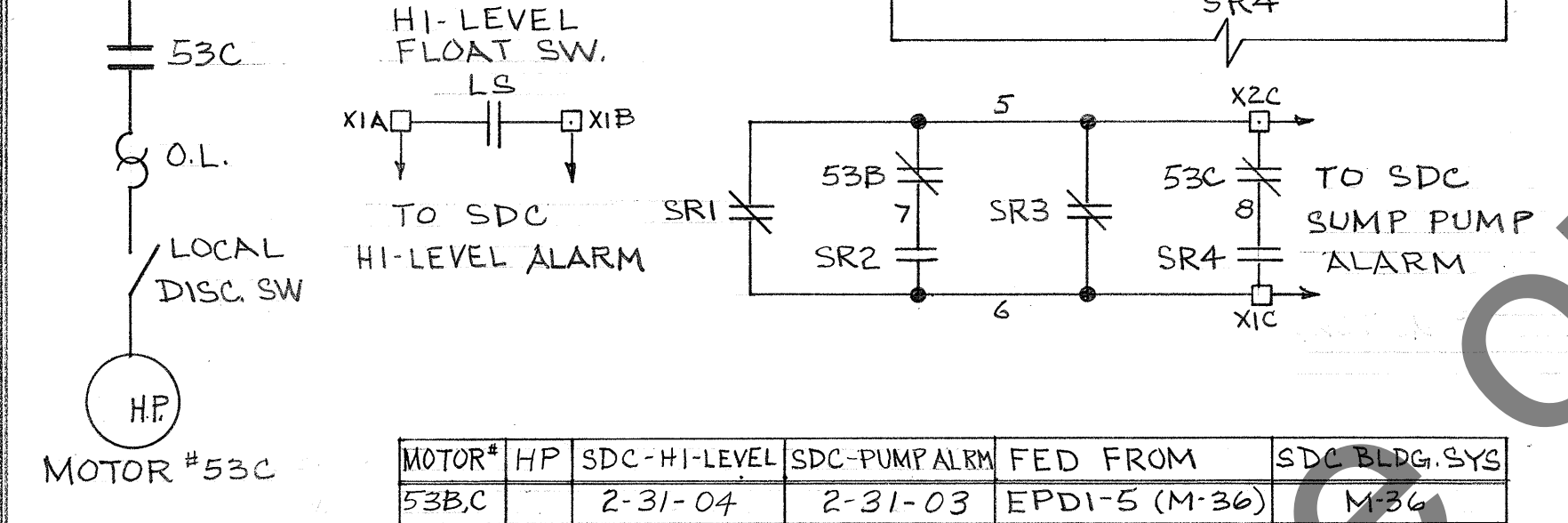
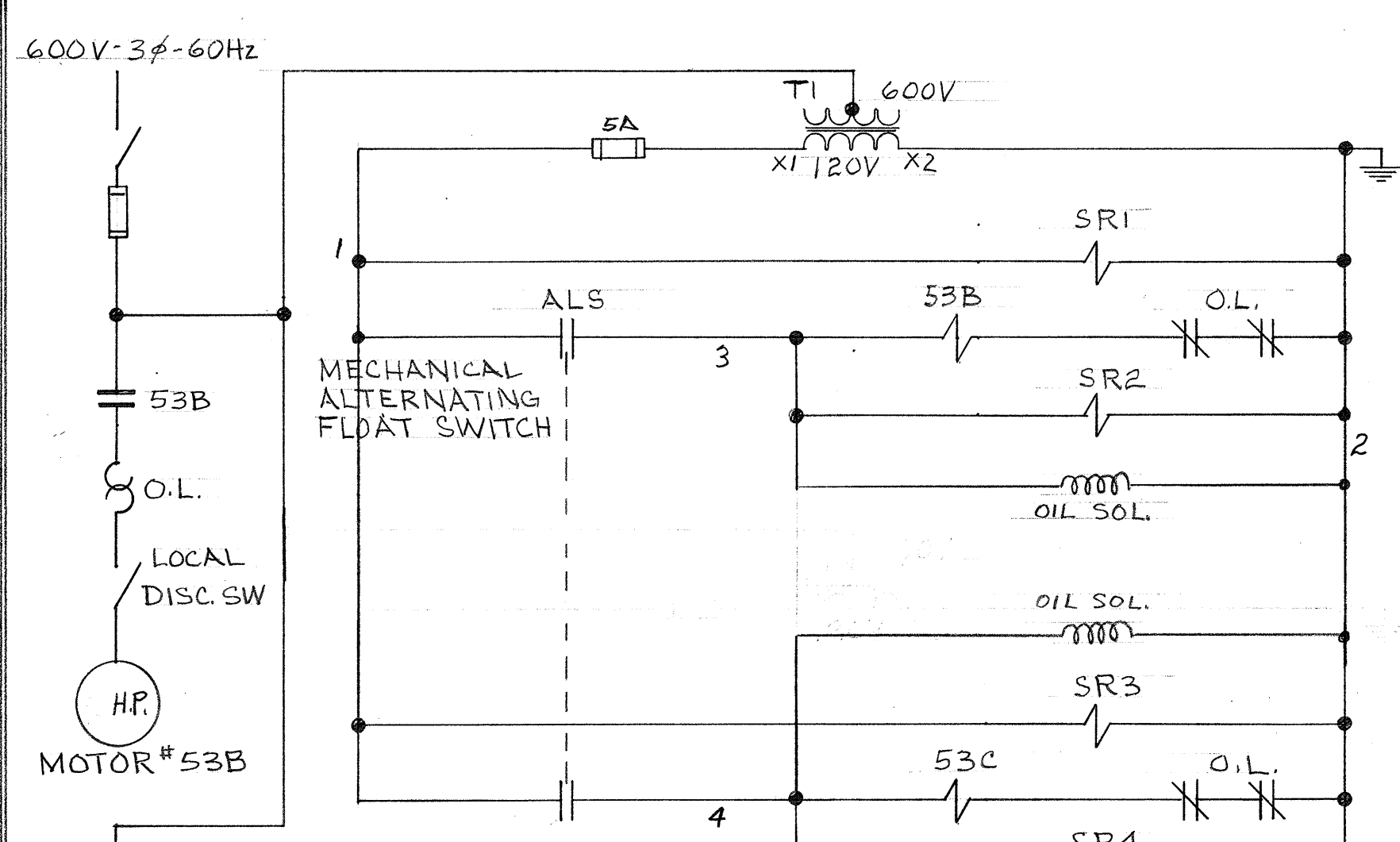
OXYGEN PRESSURE ALARM SYSTEM 39C
 PROPANE PRESSURE ALARM SYSTEM 8D
 EXISTING MERCROID PRESS. SW
 (REMOVE ORIGINAL BELL AND PILOT INDICATOR)
 TO SDC 2-31-02 39C
 2-31-09 8D



SYSTEMS 31B, 31C - CONDENSATE RETURN PUMPS



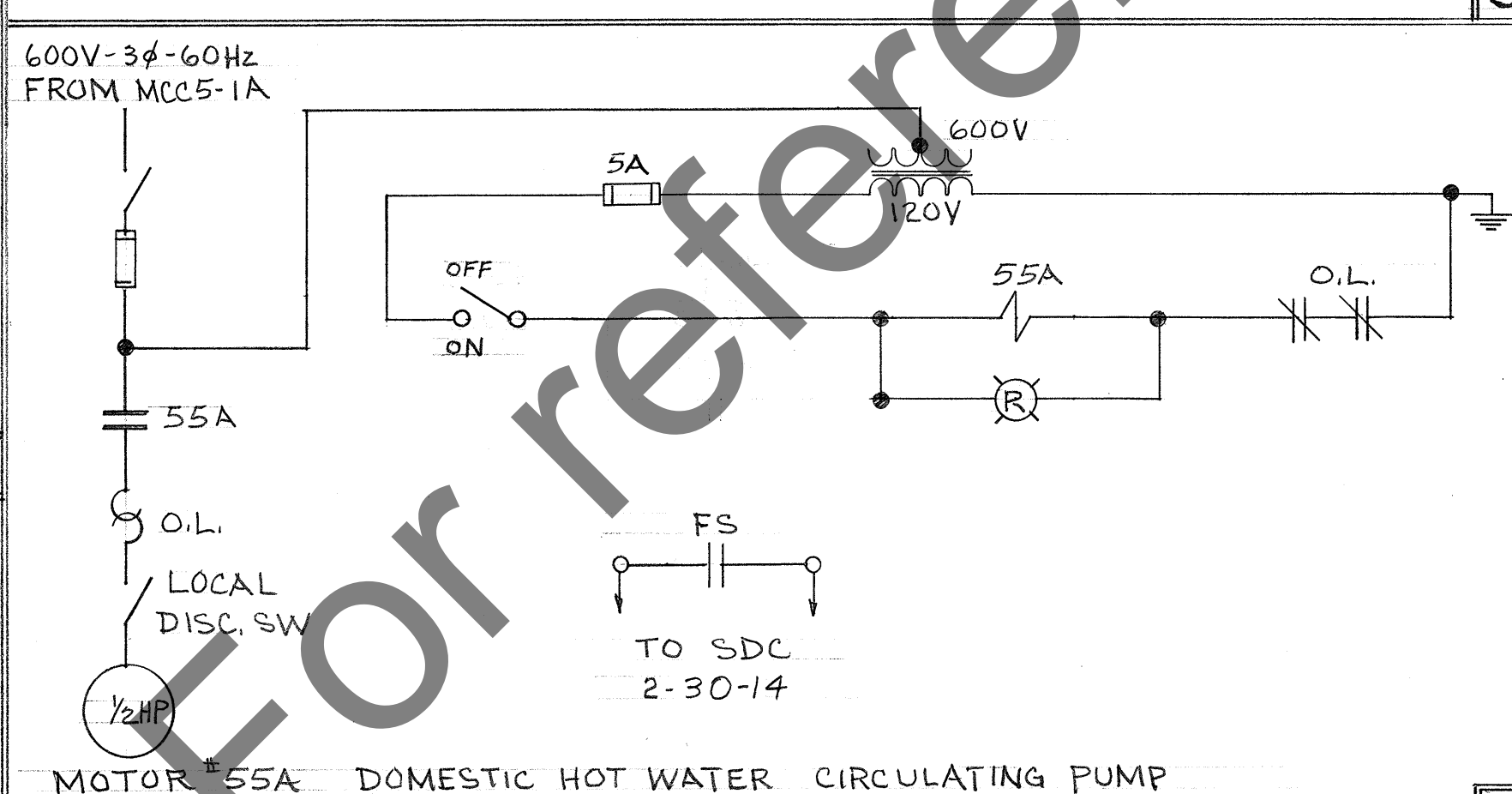
5B - SOUTH CONTROL AIR COMPRESSOR
5C - NORTH " " "



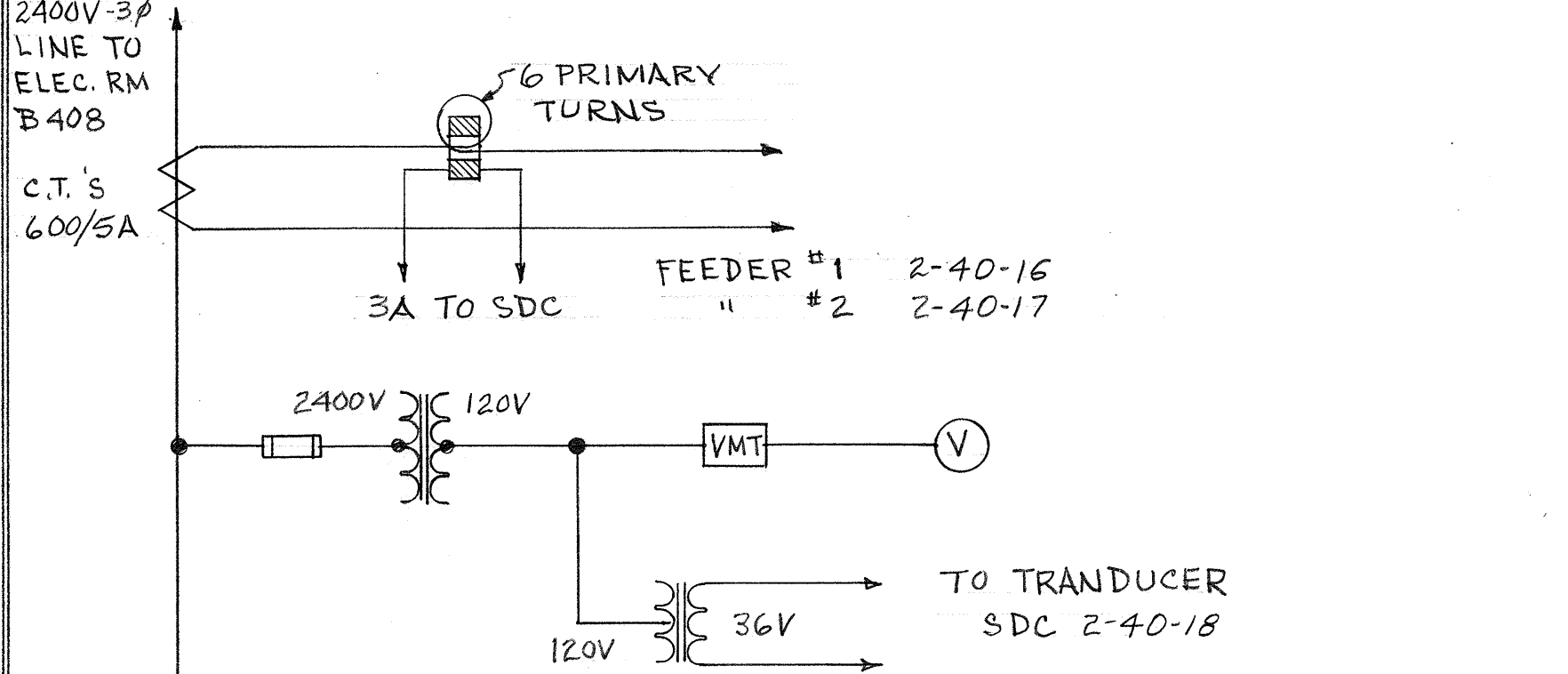
MOTOR #	HP	SDC-HI-LEVEL	SDC-PUMP ALRM	FED FROM	SDC BLDG. SYS
53B,C		2-31-04	2-31-03	EPDI-5 (M-36)	M36

SUMP PUMPS

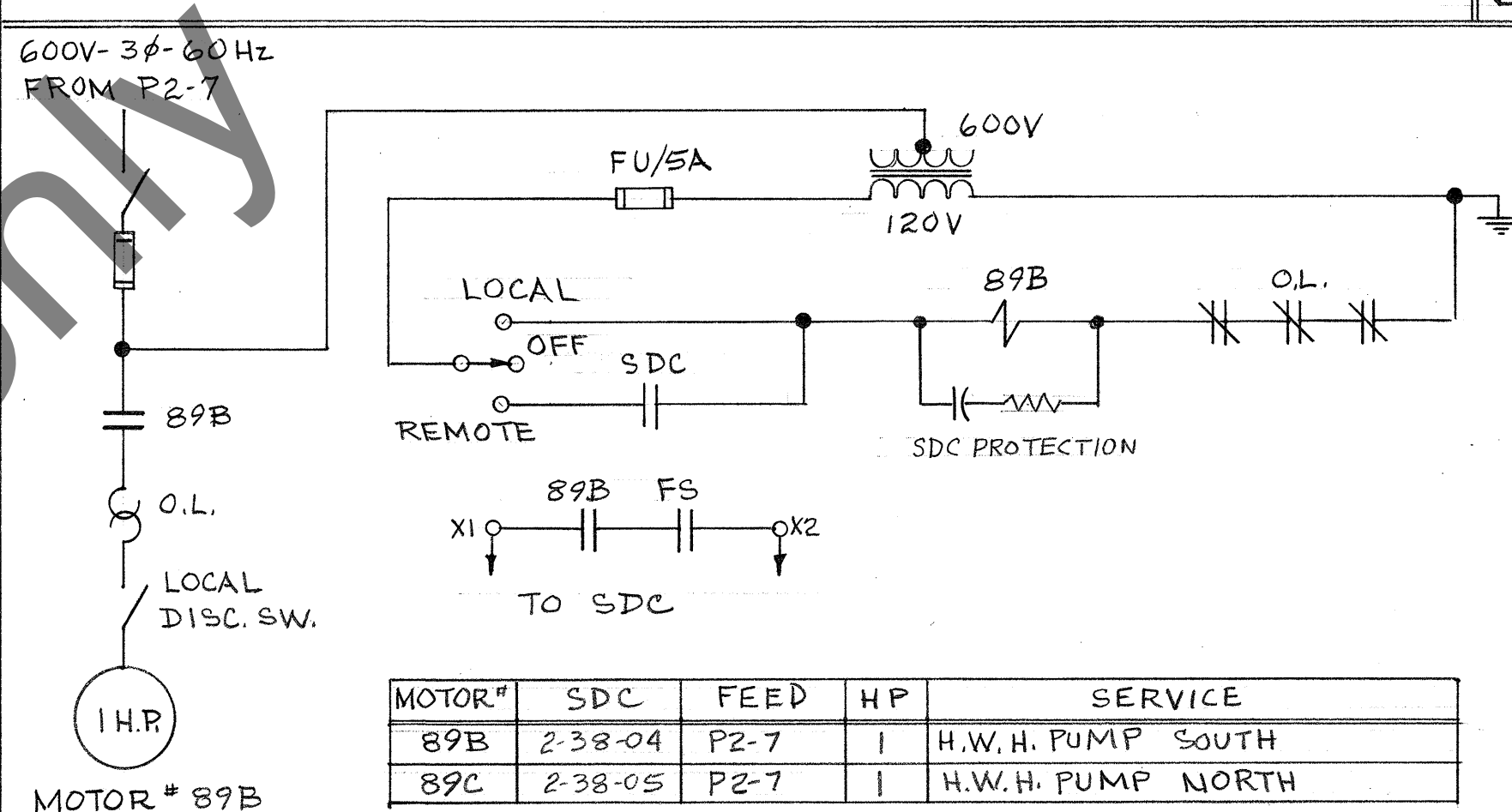
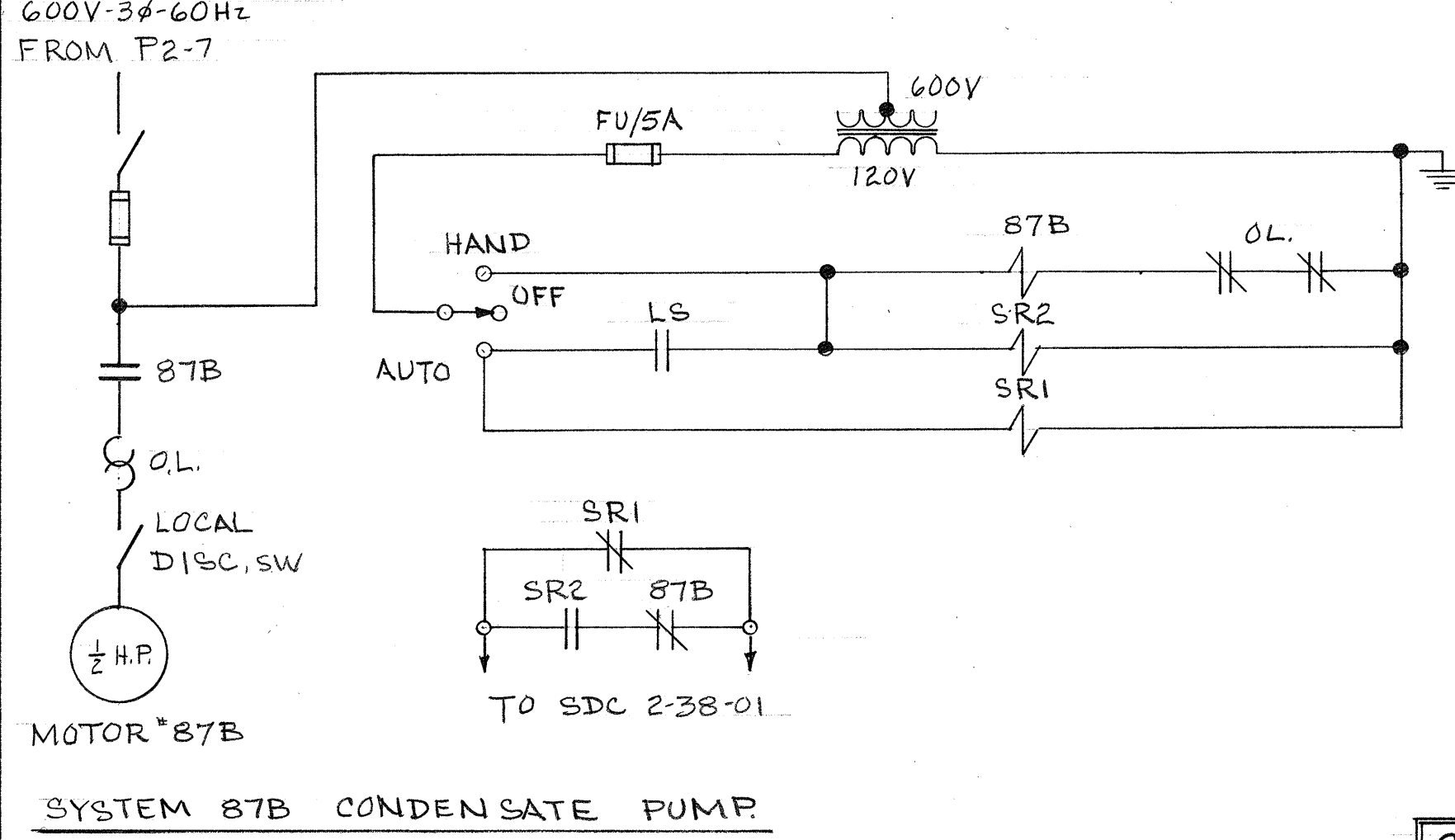
THIS DIAGRAM TYPICAL FOR MOTORS #53B, 53C-M36



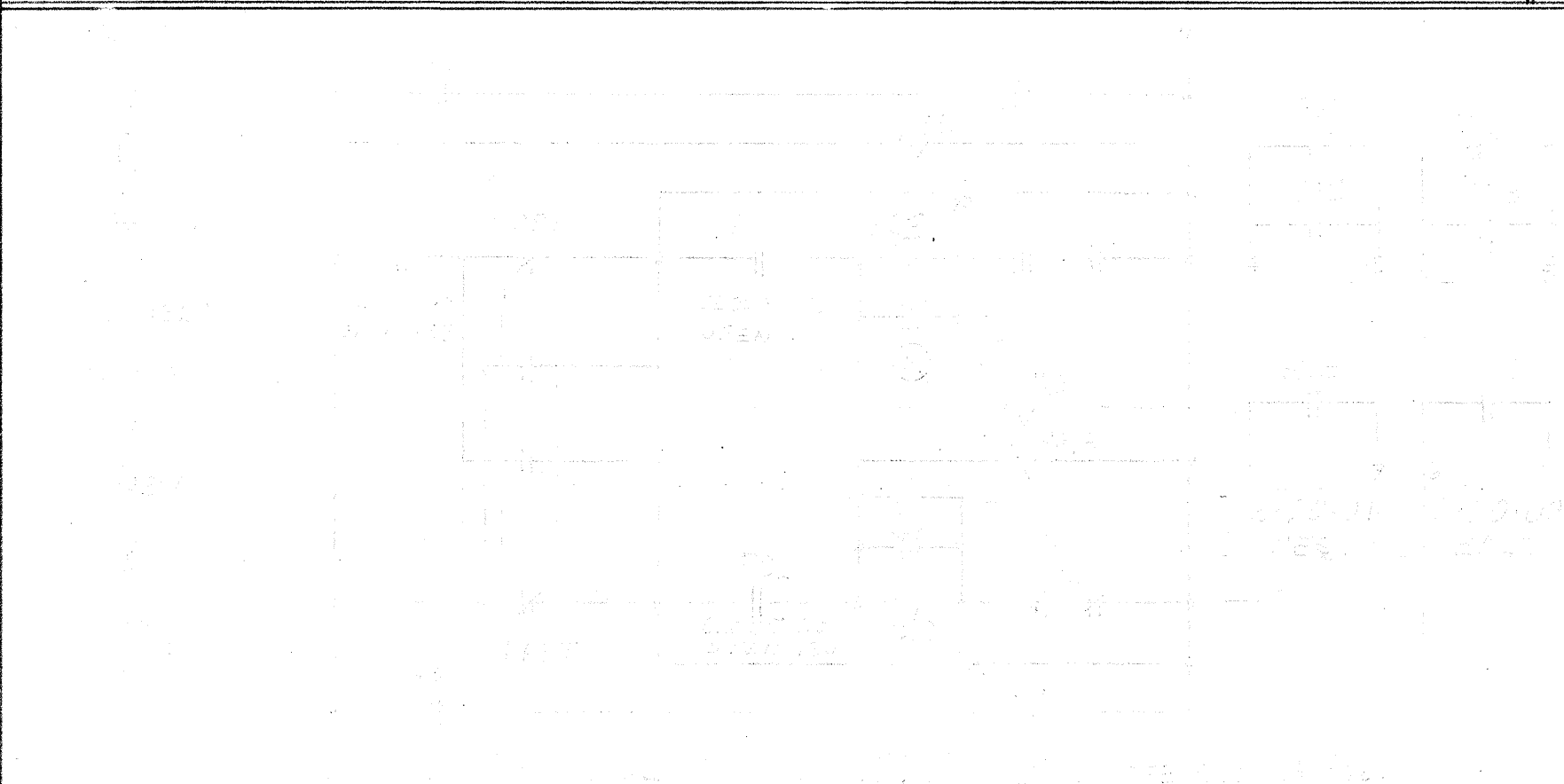
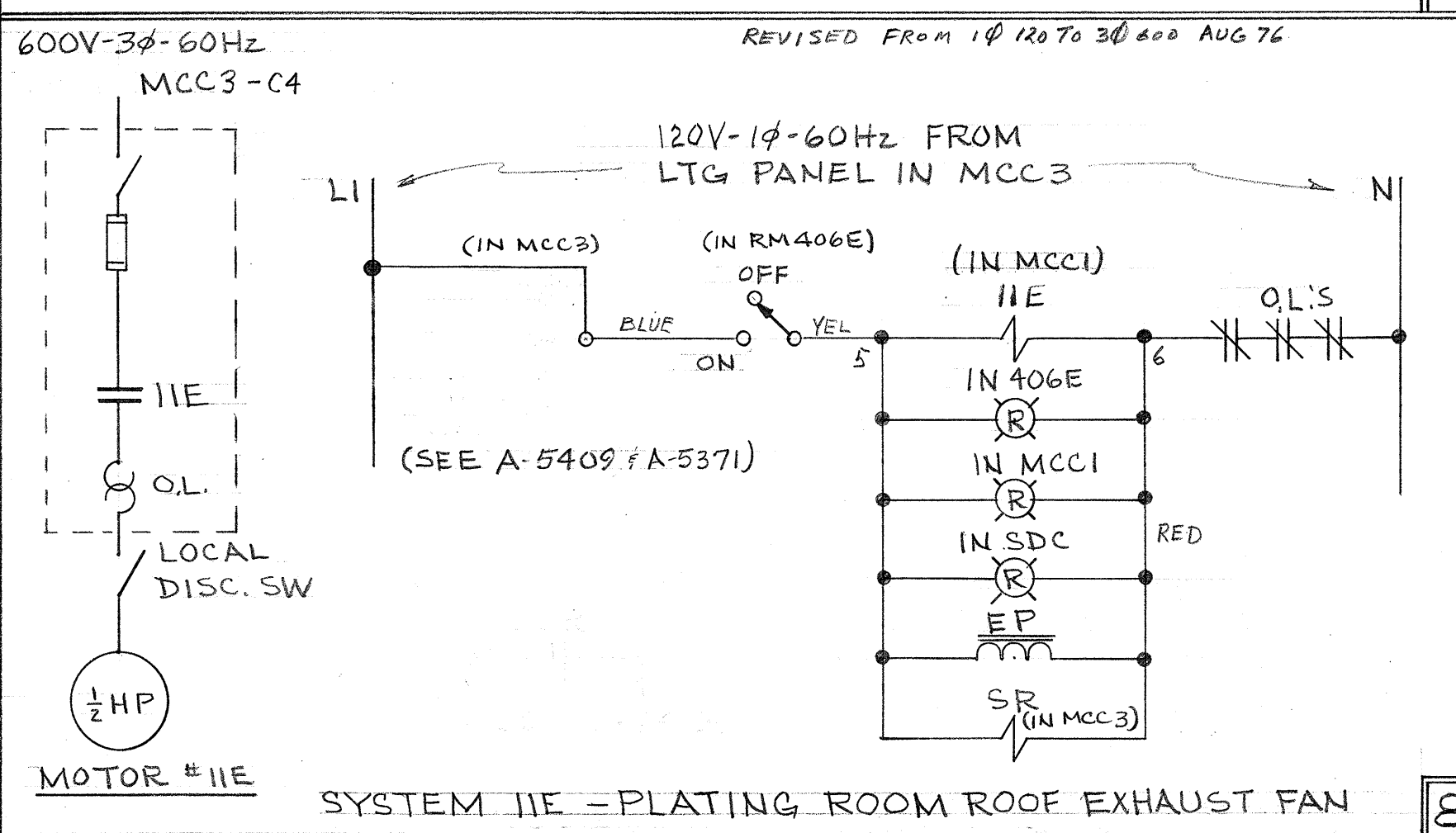
MOTOR #55A DOMESTIC HOT WATER CIRCULATING PUMP



SDC MONITORING OF BUILDING CURRENT & VOLTAGE



THIS DIAGRAM TYPICAL FOR MOTORS 89B, 89C.



SDC MONITORING OF BUILDING CURRENT & VOLTAGE

no.	date	revision	by
1	22-10-75	REV. DIA. 1,3; ADD. DIA. 5,6,7	BRC
2	2-6-76	ADDED #11E - DIA. 8	BRC
3	25-8-76	UPDATED FIELD CHANGES	PR
4	6-1-77	SDC UPDATE	PR
5	9-2-84	REMOVED PENTHOUSE AIR COMP.	BCB
6	5-11-84	REVISED SDC POINTS	BCB
7	19-7-84	REVISED SYSTEM 11E	BCB

SYSTEMS ON THIS DWG

SYS. #	DIA #	SYS. #	DIA #
5B	2	89C	7
5C	2	11E	8
31B	1		
31C	1		
53B	3		
53C	3		
55A	4		
87B	6		
89B	7		

SEE ALSO DWGS:
A-5408 } SCHEMATIC
A-5409 } DIAGRAMS

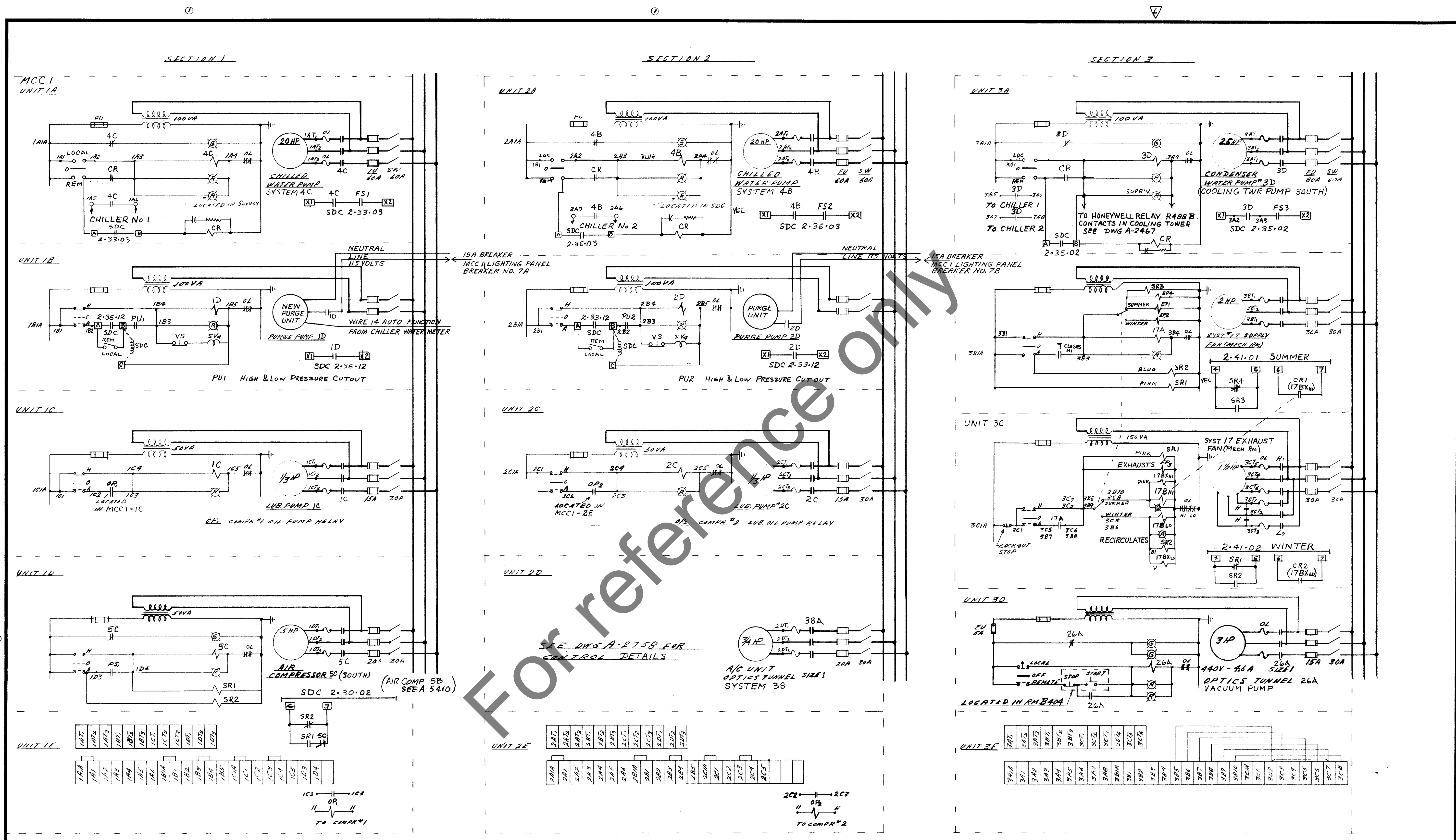
W.O. #76-43-644 (REV.2)
W.O. #75-12-119

National Research Council Canada
Service d'entretien et de réparations techniques
Ottawa, Ontario K1A 0R6

BUILDING M-36
MONTREAL ROAD LABORATORIES
ELECTRICAL
SCHEMATIC DIAGRAMS OF
MOTOR CONTROLS

designed	compd	date	scale
B.R. CHARRON		5 SEPT, 1975	N.T.S.
checked	PR.	sheet	3 of 3
approved		dwg. no.	A-5410

A-5410



LEGEND

SDC SUPERVISORY DATA CENTER (ALSO SYSTEM DATA CONTROL)

EP ELECTRO-PNEUMATIC RELAYS LOCATED IN SDC

NO.	DATE	CHANGE	BY
8	16/06/64	ADDED NEW PURGE UNITS IN SECTION 2	BBC
7	22/06/64	REVISED SDC POINTS	BBC
6	7/11/67	SYS 17 CORRECTED TO MATCH A-5408	FR
5	2/07/67	SDC UPDATE AS BUILT	FR

NATIONAL RESEARCH COUNCIL
 PLANT ENGINEERING SERVICES
 OTTAWA CANADA

DATE 17 OCT '62
 DESIGNED BY M. GUERIN
 CHECKED BY BRC
 APPROVED BY

TITLE BLDG M-36
 MONTREAL ROAD LABORATORIES
 ELECTRICAL SCHEMATIC DIAGRAM
 MCC 1 Rm B411
 CHILLED WATER TEMP CONTROL SYSTEM

SCALE
 DWG. NO. A-2466

MCC #1 SER. NO. ML 714665-A
 CONT'D DWG A-2467
 REFER TO DWG A-2067
 W/O # 62-18-271

A 2466