

LEGEND	
SYMBOL	DESCRIPTION
	POTHEAD
	STRESS CONE
	LOAD BREAK SWITCH 05 OR 06-096-07
	FUSE
	HIGH VOLTAGE CIRCUIT BREAKER 05 OR 06-(120-121)-07
	HIGH VOLTAGE DRAW-OUT TYPE CIRCUIT BREAKER 05 OR 06-(120-121)-07
	FUSED SWITCH
	HIGH VOLTAGE TRANSFORMER SEE NOTE FOR TECHNICAL DATA 05 OR 06-495-07
	LIGHTNING ARRESTOR
	1 - CLOSE POSITION 2 - ISOLATION POSITION 3 - GROUND POSITION
	CAPACITOR
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
	FUSED DRAW-OUT POTENTIAL TRANSFORMER
	GROUND STUD
	GROUND FAULT RELAY
	SOLID STATE RELAY—LONG TIME, SHORT TIME, O/C TIME DELAY, INSTANTANEOUS DISABLE
	OVER CURRENT RELAY 50 = INSTANTANEOUS 51 = TIME DELAY/ N = NEUTRAL
	AMPERAGE METER
	AMPERAGE METER SWITCH
	VOLTAGE METER
	VOLTAGE METER SWITCH
	DIGITAL METER (AMPS/VOLTS/WATTS/KWH POWER FACTOR/FREQUENCY/ETC.)
	KILOWATT-HOUR METER
	KIRK KEY INTERLOCK # RE12047
	KIRK KEY INTERLOCK # RE12047 (KEY KEPT AT THIS LOCATION)
	CIRCUIT BREAKER 05-123-07 ..... WITH CURRENT LIMITER
	DISCONNECT 05-200-07
	TRANSFORMER: 600-120/208V UNLESS OTHERWISE NOTED
	DRAW-OUT BREAKER 05-122-07
	DRAW-OUT FUSE TRUCK
	TRANSFER SWITCH (ASCO) 10-487-07
	TRANSFER SWITCH 10-487-07 (BREAKER TYPE)
	D.T.S. = DOUBLE THROW SWITCH M.T.S. = MANUAL TRANSFER SWITCH 10-487-07
	STAND-BY GENERATOR 10-250-07
	MOTOR 10-239-07
	STARTER 10-470-07
	COMBINATION STARTER 05-471-07
	SPEED DRIVE 05-153-07
	CONTACTOR 05-153-07
	JUNCTION BOX
	SPLITTER 05-215-07
	ELECTRICAL PANEL
	FIRE ALARM CABINET
	UNDERLINE INDICATES PRESENT TAP SETTING
	CONNECTION FOR MOBILE GENERATOR
NOTE: ANY ADDITIONAL SYMBOLS TO BE BASED ON ANSI Y32.2-1975 AND SUBSEQUENT REVISIONS	

REVISIONS		date
revision	description	
0	ORIGINAL	
date		approve par
DEC./2005		
revision	description	
01	description AUTOMATIC TRANSFER SWITCH AND EMERGENCY LOADS PROJECT	
date	approved by	approve par
Jun./2005		
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	approve par
revision	description	
date	approved by	

\* EQUIPMENT SUPPORTED BY THE EMERGENCY GENERATOR



- .1 MAKE CONNECTIONS FOR ELEVATOR POWER AS INDICATED.
- .2 DEMONSTRATE TO ENGINEER THAT SERVICES OPERATE AND CO-ORDINATE WITH ELEVATORS AS INTENDED.
- .3 DO NOT INSTALL ANY EQUIPMENT IN ELEVATOR HOISTWAYS EXCEPT FOR PIT LIGHTING.



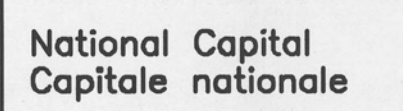
**SINGLELINE NOTES:**

1. NOT IN USE.
2. NOT IN USE.

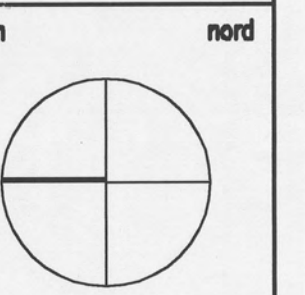


A- CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING.

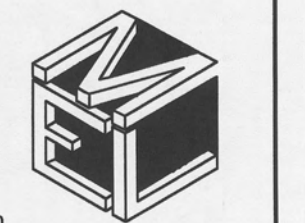
B- DO NOT SCALE DRAWINGS.



**Architectural and Engineering Services  
Services d'architecture et de génie**



**R.J. McKEE**  
ENGINEERING LTD.  
CONSULTING ENGINEERS  
1785 WOODWARD DRIVE,  
OTTAWA ONTARIO, K2C 0P9  
PHONE: (613) 723 9585  
FAX: (613) 723-9584  
e-mail - [rjmeng@rjmeng.com](mailto:rjmeng@rjmeng.com)

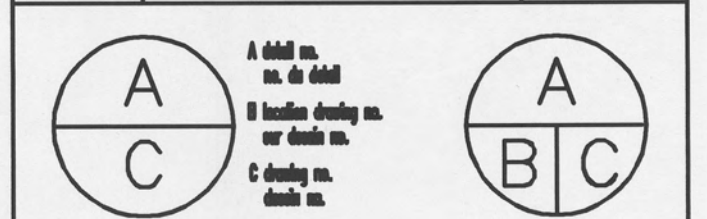


McKEE ENGINEERING PROJECT # 00-085

UPDATED FROM INFORMATION SUPPLIED  
BY CONTRACTORS  
DATE 02-03-05  
PER G.O.M.

**R.J. McKEE ENGINEERING LTD.**

revisions		date
-----------	--	------



project	projet
---------	--------

## CENTRAL EXPERIMENTAL FARM

### Building 55 Renovations

NCC Driveway, Ottawa, Ontario

drawing	dessin
---------	--------

## ELECTRICAL SINGLELINE PLAN

designed	I.C.	conqu
date	January 24, 2001	

drawn	I.C.	dessiné
date	January 24, 2001	

reviewed	B.T.	examined
date	January 24, 2001	

approved	B.T.	approved
date	January 24, 2001	

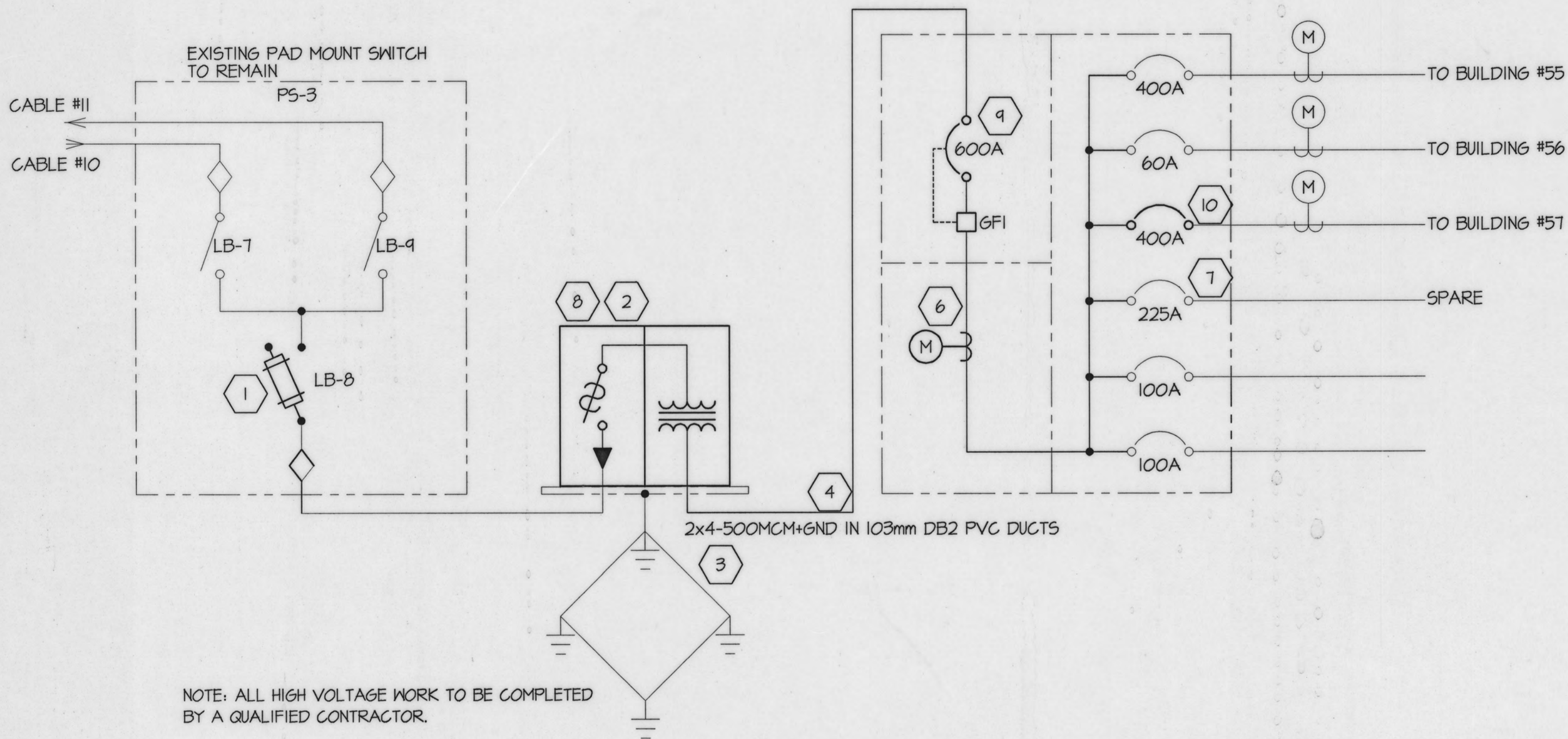
Tender	Patrick Plue	Soumission
PWC Project Manager	Administrateur de projets TPC	

project no.	no. du projet
410466	

drawing no.	no. du dessin
E1	

EI





NOTE: ALL HIGH VOLTAGE WORK TO BE COMPLETED BY A QUALIFIED CONTRACTOR.

# 1 PART SINGLE LINE DIAGRAM E0.1B N.T.S.

## DRAWING NOTES

- 1 REVISE FUSE SIZE IN EXISTING PAD MOUNT SWITCH TO 30A.
- 2 500KVA TRANSFORMER.
- 3 TRANSFORMER PAD GROUNDING FOR 500KVA TRANSFORMER. REFER TO DETAIL 6:EI.
- 4 PARALLEL FEEDERS 4#500MCM+GND, 103mm DB2 PVC IN 2-CELL DUCTBANK AS INDICATED. REFER TO DETAILS, THIS DRAWING.
- 5 N/A.
- 6 METERING C/W CT'S & PT'S TO SUIT SERVICE ENTRANCE UPGRADE TO 600A, 600/34TV, 3 $\phi$ .
- 7 225A BREAKER SERVICING BUILDING 57 RELOCATED AND LABELED AS SPARE.
- 8 500KVA 12.8KV-600/34TV 3 $\phi$ . PAD MOUNT TRANSFORMER. REFER TO ELECTRICAL SPECIFICATIONS SECTION 16216 FOR DETAILS.
- 9 800A FRAME W/600A TRIP UNIT MAIN BREAKER IN SERVICE ENTRANCE SWITCHBOARD.
- 10 EXISTING 400A BREAKER REMOVED FROM SERVICE AS MAIN BREAKER IN MAIN SERVICE ENTRANCE TO BE REUSED AS SERVICE FEEDER BREAKER FOR BUILDING 57.