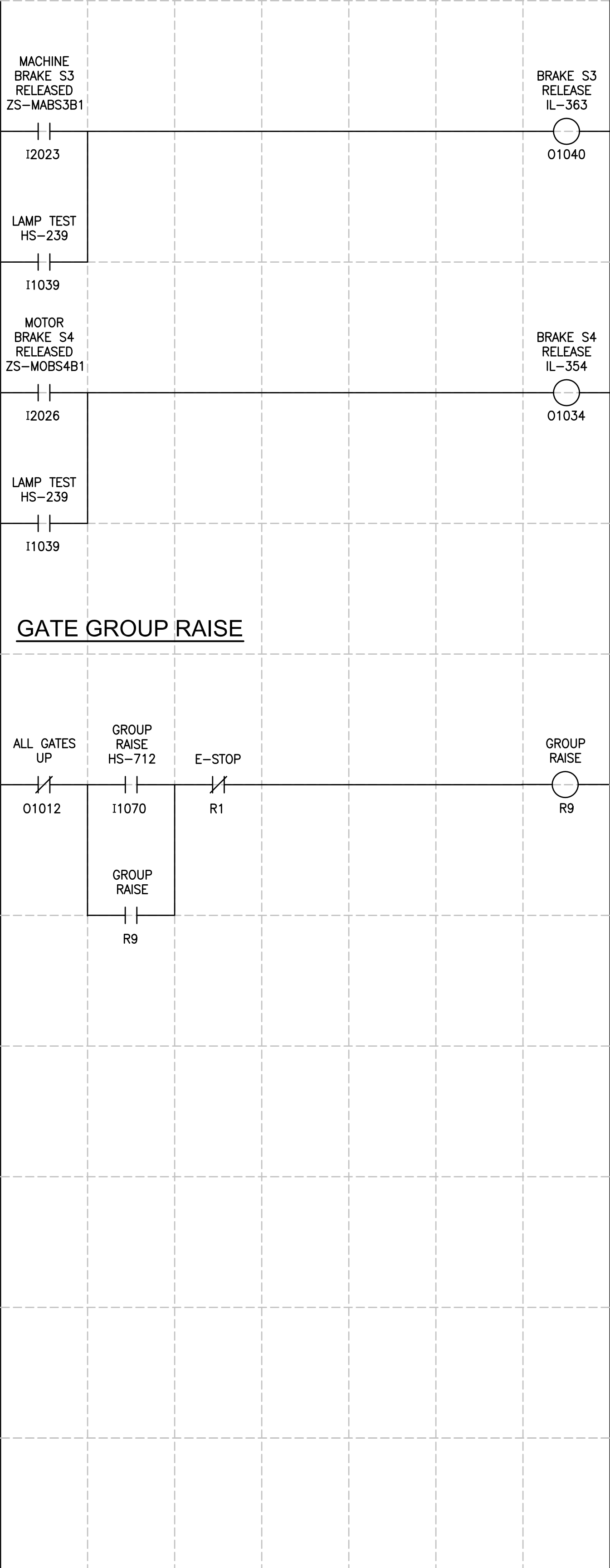


BRAKE INDICATIONS (CONT'D)

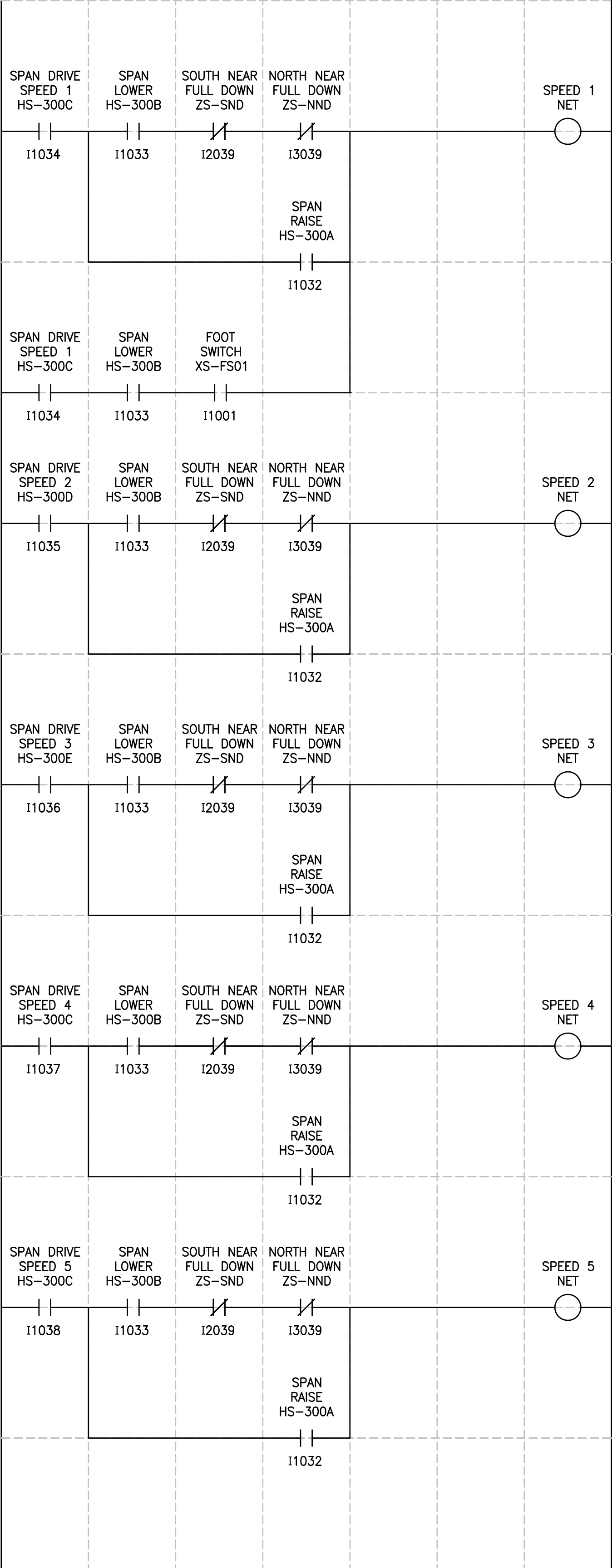


INDICATOR LIGHT
TURNS ON WHEN
MACHINE BRAKE S3
IS RELEASED

INDICATOR LIGHT
TURNS ON WHEN
MOTOR BRAKE S4
IS RELEASED

SPAN SPEED CONTROL

SOUTH SHOWN, NORTH SIMILAR



SPAN SPEED 1
CONTROL NET COMMAND
FROM PLC TO MOTOR DRIVES
ON LOWER SPAN STOPS AT
NEAR FULL DOWN POSITION.
STEPPING ON FOOT SWITCH
ALLOWS LOWERING TO FULLY
SEATED POSITION AT SPEED 1
ONLY.

SPAN SPEED 2

SPAN SPEED 3

SPAN SPEED 4

SPAN SPEED 5

NOTE:
THE LADDER DIAGRAMS ON THE FOLLOWING SHEETS ARE
INTENDED TO SHOW TYPICAL INTERLOCK LOGIC AND STYLE. THE
CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE
DEVELOPMENT OF THE PLC PROGRAMS IN ACCORDANCE WITH
THESE PLANS AND WRITTEN DESCRIPTIONS IN THE TECHNICAL
SPECIAL PROVISIONS.

**PARSONS
BRINCKERHOFF**

2300 YONGE STREET, SUITE 2300
TORONTO, ONTARIO
CANADA M4P 1E4
PHONE: 416-487-5256 FAX: 416-487-9766
WWW.PBWORLD.COM

Professional Engineers
Ontario
Temporary Licensee
Name: Mark VanDeRee
Number: 100181047-02
Limitations: Electrical system design for the Burlington
Canal Bridge in Burlington, Ontario for Public Works and
Government Services Canada
Collaborator: Zvonko Trajkovic, P. Eng.
Expiry Date : July 31, 2013
Association of Professional Engineers of Ontario



07	FOR TENDER 2	2013-06-30
06	FOR TENDER	2013-06-04
05	FINAL DESIGN COMPLETION	2013-05-31
04	99% DESIGN COMPLETION	2013-05-31
03	90% DESIGN SUBMITTAL	2013-03-31
02	66% DESIGN SUBMITTAL	2013-02-14
01	33% DESIGN SUBMITTAL	2012-12-10

revision		date
Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.		

A	Detail No.
B	No. du détail
C	drawing no. - where detail required dessin no. - où détail exigé
C	drawing no. - where detailed dessin no. - où détaillé

project title
titre du projet
HAMILTON BURLINGTON CANAL VERTICAL LIFT BRIDGE
REPLACEMENT OF CONTROLS,
DRIVES AND OVERHEAD CABLES

drawing title
titre du dessin
**PLC LADDER DIAGRAM 10:
BRAKES, SPAN SPEED, GATE
GROUP RAISE**

drawn by
dessiné par
J. Perez

designed by
conçu par
G. Patino/B. Crouthamel

approved by
approuvé par
M. Vanderee

bid
soumission
A. Ghubril

project manager
administrateur
de projets

project date
date du projet
2013-05-31

project no.
no. du projet
R.012641.001

drawing no.
dessiné no.
E-54