VLAN Departments Users Network

VLAN 10 Scarborough Store WiFi 125 users 172.16.2.0/25

VLAN 20 Scarborough Store Systems. 40 users 172.16.2.128/26

VLAN 30 Mississauga Store WiFi 125 users 172.16.3.0/25

VLAN 40 Mississauga Store Systems 40 users 172.16.3.128/26

VLAN 50 Brampton Store WiFi 125 users 172.16.4.0/25

VLAN 60 Brampton Store Systems 40 users 172.16.4.128/26

VLAN 70 Pickering Store WiFi 125 users 172.16.5.0/25

VLAN 80 Pickering Store Systems 40 users 172.16.5.128/26

Following are the IP addressing scheme for rest of networks

Network Name Network address

From HQ\_RTR (Router 1) to HQ\_SWT (switch 1) 172.16.1.0/28

HQ\_RTR connected to ISP

From Scar\_RTR (Router 2) to Scar\_SWT (switch 2) 172.16.2.0/25, 172.16.2.128/25

Scar\_RTR connected to ISP

From Miss\_RTR (Router 3) to Miss\_SWT (switch 3) 172.16.3.0/25, 172.16.3.128/25

Miss\_RTR connected to ISP

From Bram\_RTR (Router 4) to Bram\_SWT (switch 4)172.16.4.0/25, 172.16.3.128/25

Bram\_RTR connected to ISP

From Pick\_RTR (Router 5) to Pick \_SWT (switch 5) 172.16.5.0/25, 172.16.3.128/25

Pick \_RTR connected to ISP

GigabitEthernet ports:

Router 1 Gi 0/0 172.16.1.1 255.255.255.240

Router 2 Gi 0/0.10 172.16.2.1 255.255.255.128

Router 2 Gi 0/0.20 172.16.2.129 255.255.255.192

Router 3 Gi 0/0.10 172.16.3.1 255.255.255.128

Router 3 Gi 0/0.20 172.16.3.129 255.255.255.192

Router 4 Gi 0/0.10 172.16.4.1 255.255.255.128

Router 4 Gi 0/0.20 172.16.4.129 255.255.255.192

Router 5 Gi 0/0.10 172.16.5.1 255.255.255.128

Router 5 Gi 0/0.20 172.16.5.129 255.255.255.192

FastEthernet ports:

HQ\_SWT (Switch 1) (Server 1) fa 0/1 172.16.1.2 255.255.255.240

HQ\_SWT (Switch 1) (Server 2) fa 0/2 172.16.1.3 255.255.255.240