



M. Z. ENGINEERING SERVICES

STRUCTURAL

1121 STEELES AVE. W. #1504
WILLOWDALE, ONTARIO
M3R 3W7
TEL: (416) 667-0864
FAX: (416) 667-0170

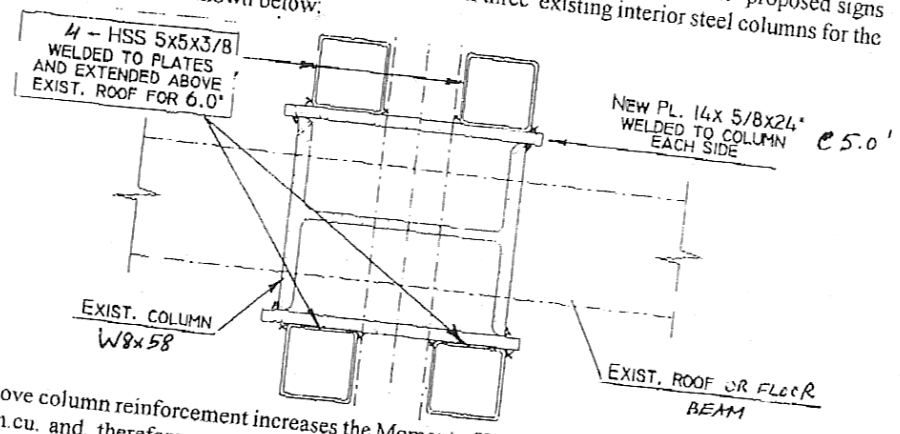
March 20, 2002

City of Toronto, Buildings.
Attention: Mr. R. McKeown, P. Eng.

RE: Roof Signs Installation at One Bloor Str. West, Toronto.
Your Folder no. 02-101111

Dear Mr. McKeown:

Please be advised that in order to increase the safety of the building (due to the proposed signs installation) a decision has been made to reinforce all three existing interior steel columns for the full building height as shown below:



The above column reinforcement increases the Moment of Inertia of the cross section from 69 in.cu. to 1272 in.cu. and, therefore, practically no extra load from the new signs will be transferred to the existing South wall. Our calculations (can be submitted to you upon request) prove that with this reinforcement the Building is structurally adequate for the extra loads due to the sign installation.

- the upper floor total drift will be only 0.33", which is less than the allowable $H/500 = 0.384"$.
- the max. stress in the reinforced columns will not exceed 10 ksi.

Confirmation
BLDG IS
ADEQUATE

Please advise if The City can issue a Permit based on this Letter and modified installation drawings which will be submitted to you in a few days. In the meantime, if you have any questions, please call.

Regards,

I. Zalts, P. Eng.

R 3.20.2