



May 13, 2015

Mr. Dan Eschenasy, PE, F.SEI
New York City Department of Buildings
280 Broadway, 7th Floor
New York, New York 10007

RE: 146 East 50th St, New York, NY
WSPCS Job No. B1305-530
Structural Integrity–Key Element Analysis
for 146 East 50th Street, New York, NY

Dear Mr. Eschenasy,

As per *Section BC 1626 Structural Integrity – Key Element Analysis* of the 2008 New York City Building Code, the above noted structure falls under point *1626.1.3 Buildings with aspect ratios of seven or greater*.

As per *Section 1626.2*, all structural elements and components were designed to resist the forces calculated using the combinations specified in *Section 1605.6*.

As per *Section 1626.4*, all structural elements and components were designed to resist seismic and wind forces using code prescribed references. In addition, wind tunnel testing was carried out by RWDI, and the wind tunnel results incorporated into the design.

As per *Section 1626.6*, all structural elements and components in the structure were designed for potential loss using the “Specific Local Resistance Method” as described in *Section 1626.7*.

As per *Section 1626.7 Points 1 thru 4*, all structural elements and components were designed for specific local loads including:

- All compression elements were subjected to a concentrated load at the mid-span of the member, acting in a perpendicular direction.
- All bending elements were subjected to additional bending moments acting in the perpendicular plane of the member.
- All tension connections developed greater loads as required.

Mr. Dan Eschenasy, PE, F.SEI

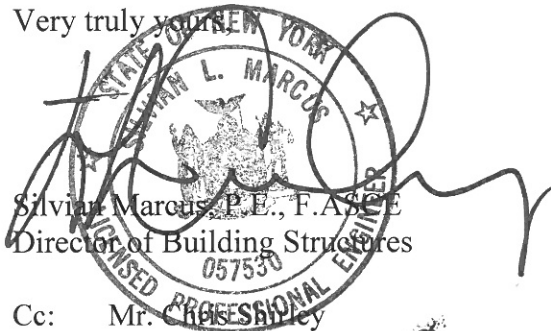
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- All elements were designed for the prescribed load reversal requirements.

As per *Section 1626.11 Strength reduction factors*, strength reduction factors for the local resistance method were taken as 1.

Very truly yours,



Silvan Marcus, P.E., F.ASCE
Director of Building Structures

Cc: Mr. Chris Shirley
Mr. Hezi Mena P.E.