TOPIC: Structural Design - UBC/16/#2 & CABO/4/#2


REVISED: March 1, 1999

REFERENCE: Chapter 16- Structural Specialty Code
Chapter 4 – One & Two Family Dwelling Specialty Code

SUBJECT: Design Loads for Elevated Structural Driveways and Parking Decks.

QUESTION: What are the structural loading requirements for private elevated driveways and parking decks?

RESPONSE: Private elevated driveway structures and parking decks will be subjected to the loading caused by heavy vehicles such as garbage trucks, delivery trucks and moving vans. The City of Portland Office of Transportation, Bureau of Transportation Engineering, requires ramps or decks which are constructed in the street right of way to meet the wheel load design requirements of AASTO HS-15 as a minimum. (HS-20 is required when these structures are adjacent to arterials and other main streets).

Elevated private driveway structures and parking decks shall be designed to support the same vehicle load as the adjacent street or shoulder (HS-15 minimum).

Overhead barriers which restrict the height of vehicles entering a driveway or parking area will not be accepted as an alternative to provide the minimum structural load design.

Questions regarding the street design loads should be directed to the Bureau of Transportation Engineering at 823-7059.
Fabric awnings – structural loading and drainage requirements

March 1, 1999

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