

Encore at the Carolina Theatre

Preliminary Vehicle Elevator Requirements

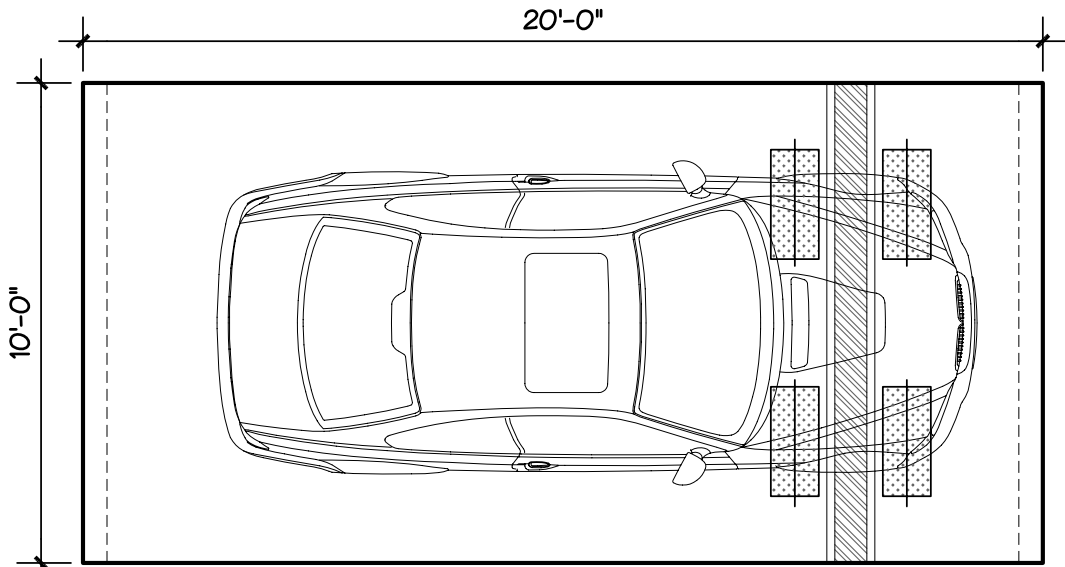
The design of the 'Vehicle' elevators should be based on a passenger elevator designed to carry freight. The objective is to have authorized tenants drive themselves into the elevator and ride to their floor while in the car. Therefore, all safety provisions of a passenger elevator are needed as well as a few additional provisions as discussed with the NCDOL Elevator Bureau.

The load is limited to passenger cars and SUV's. Light and full size trucks are not authorized due to their Gross Vehicle Weight Loading capacity which may be in excess of 10,00 lbs. For the purposes of determining capacity of the elevators, a fully loaded Hummer H2 was considered which has a GVW of 8,600 lbs. For the purposes of determining size of cab, a luxury car such as a Bentley Arnage was considered which has a total length of 18'-6".

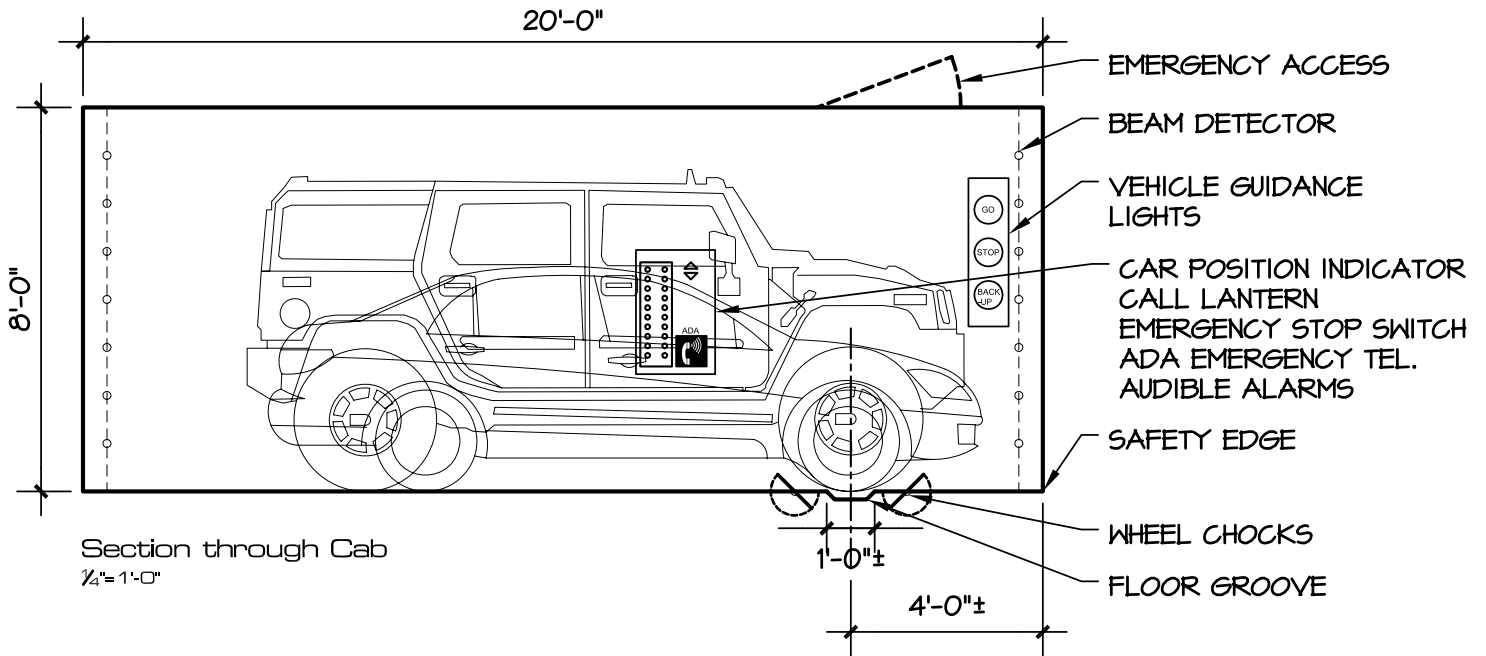
Number of Cabs:	(2)
Size of Cabs:	20'(l) x 10'(w) x 8'(h)
Control:	Overhead traction
Capacity:	9,000 lbs.
Loading:	Class B
Speed:	200 fpm min.
Travel:	220'-0"±
Power supply:	208/480 volts, three -phase, 60 cycles
Machine room location:	Directly over hoistway
Stops:	(1) Street Level, (2) Basement Levels, (13) residential levels.
Openings (per Cab):	Forty (32), 16 front, 16 rear openings
Hoistway doors:	Power bi-parting freight doors
Car enclosure:	Stainless steel side walls
Signal fixtures:	[LED] Contemporary fixtures, Car riding lanterns, Car position indicator, Light-up car and hall pushbuttons,
Auxillary Operations:	Standby power operation, Battery-powered lowering, Car top inspection station, Alarm bell, Tactile markings for the handicapped (for passenger), Emergency stop key switch, Fan/light key switch, emergency lights. Manufacturer's standard microprocessor operation system, Secure key-code based dispatching of cars to authorized floor for tenants,
Special features:	ADA phone/ Emergency Comm. system, Firefighters two-way telephone service, Door detector safety edges with audible buzzer, Detector beams within elevator with audible buzzer, Fire service provisions per rule 211.3 for Phase I and Phase II operation, Vehicle guidance lights,



Automated front tire chocks and floor groove,
Floor recall and leveler,
Emergency cab roof access,
Initiating devices in Cab,
Separation of Vehicle and Passenger elevator machine
rooms,
Sound isolation – mount rotating and vibrating
equipment on vibration-isolation mounts.



Plan of Cab
 $\frac{1}{4}'' = 1'-0''$



Section through Cab
 $\frac{1}{4}'' = 1'-0''$

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