Automated Parking Conference
The Parking Dilemma:
Innovative Solutions for Parking and Parking Requirements

Presented by

Bud Ovrom
General Manager, LADBS
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Performance Enhancement Program (PEP)

"MAKING A GOOD DEPARTMENT EVEN BETTER"

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Robert R. “Bud” Ovrom
General Manager
PERFORMANCE ENHANCEMENT PROGRAM (PEP)

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Robotic Parking
What are Car lifts and Automated Parking Structures?

- These are common references by developers, contractors and installers.
Two General Types of Automated Parking

- Semi Automated - Car lift for one or more cars below or above, usually at the ground level parking

Example of Semi Automated Lift
Two General Types of Automated Parking

- Fully Automated - Automated Parking Structure with Car Lifts of one or more and computerized rack systems

Example of Fully Automated Lift
We are now entering a new era of Automated Parking Structures!

- It is possible to have a win-win solution to designs
- It is challenging and we are open minded to solutions
- Not going to discuss any specific brands
  - We’ve looked at tower crane systems, rack and rail systems and automated guided vehicles
  - Not endorsing or condemning any
- Going to discuss issues – not specific products

Bottom line – It has to be safe!
Here are examples of successful applications:

- 15 car Fully Automated Lift for a 8-unit apartment located at 14309 W. Burbank Avenue
Here are examples of successful applications:

**Basement Floor Plan**

14309 West Burbank Avenue
15 car lift for 8 apartment units
Here are examples of successful applications:

- 17 car Fully Automated Lift for a 60-unit apartment located at 719 N. Yale St.
Proposed Project

- 708 car complex for 283-units located at 10000 Santa Monica Blvd.
- Currently going through the entitlement process.
Why are Automated Parking Structures Advantageous?

- A compact option to meet the City’s parking requirements.
- GREEN – No excessive driving around or idling looking for a parking space. Less materials to build.
- Public Safety – Less opportunity for car theft, break-ins or assaults
- Easier handicap accessibility
- Less building density and visual bulk
Less building density and visual bulk

Conventional Garage

Automated Garage
Requirements for Automated Parking Structures

- **Planning**
  - Automated parking allowed by-right

- **Building**
  - There are general provisions in the LABC for automated parking garages that can be followed in collaboration with LAFD
  - Enclosed Parking Garages – occupancy classification determined by LAFD
  - Open Parking Garages – considered S-occupancies
Approvals Through LADBS

- **Building Permits**
  - Includes life-safety, architectural, Green Building Code, civil and structural reviews, and disabled access
  - Agency approvals
    - Fire
    - DOT – vehicle staging while waiting in line to park

- **Electrical Permits & LADBS Test Lab approval for the system**

- **Mechanical Permits & LADBS Test Lab approval for the system (field approval)**
Fire Department’s Primary Concerns

17 vehicles burn in a parking structure fire in Los Feliz January 7, 2011
(source KTLA)
Fire Department’s Primary Concerns

10 vehicles burn in a parking structure fire in Houston, Texas April 10, 2010
(source Houston Chronicle)
Fire Department’s Primary Concerns

- Access for Fire Suppression
- Fire Life Safety of the overall building
  (Exiting, fire sprinklers, fire rated partitions, fire rating)
- Means of application of water
- Venting of smoke and heat
- Safety of Firefighters while fighting fire
- Early warning or notification system
Thank you,
Any Questions?