

Division 14 Rail Operations and Maintenance Facility

2018 APTA Annual Conference

Don Leidy

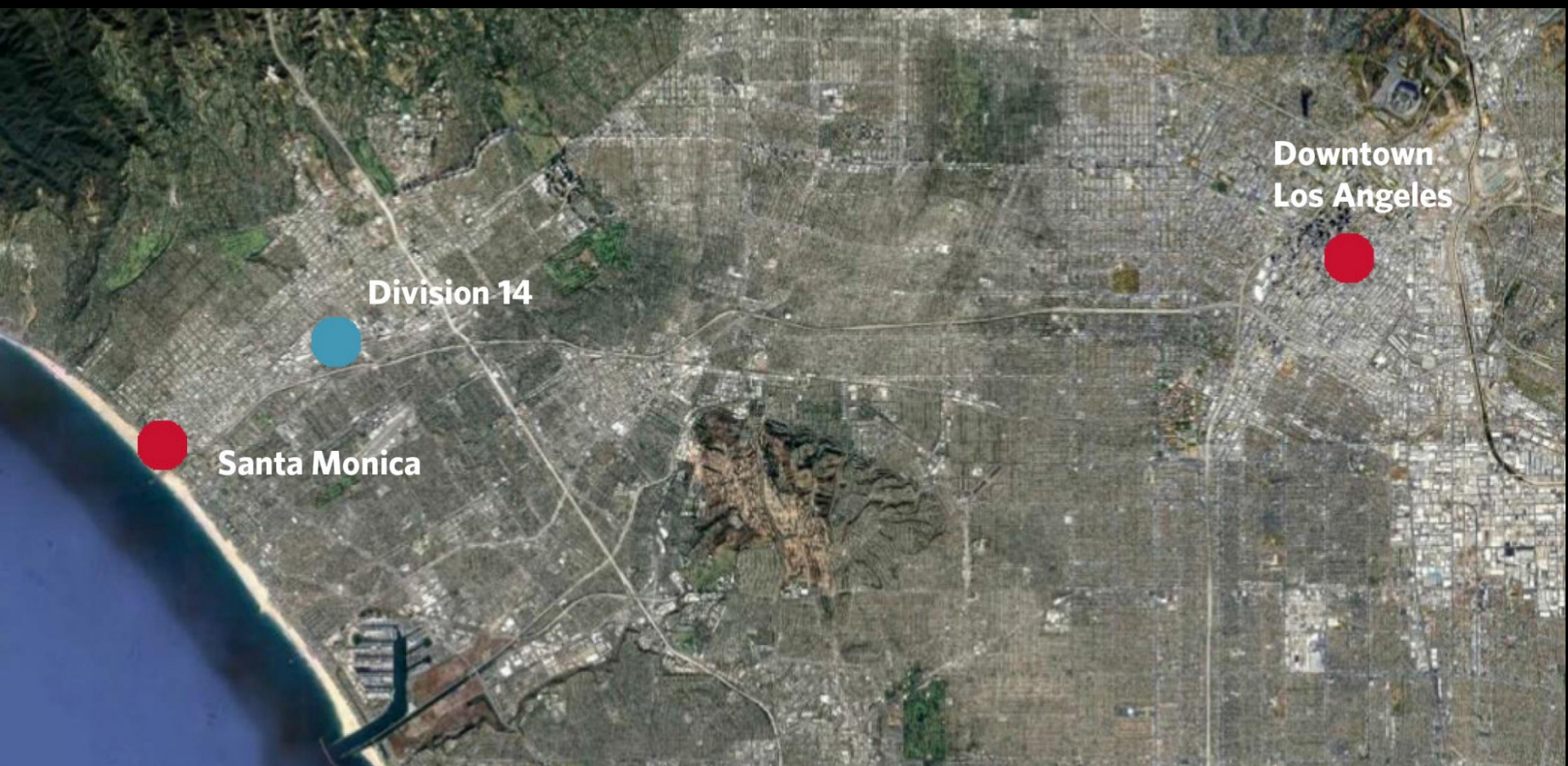
Vice President, Facility Design Director

September 26, 2018



**Maintenance
Design
Group**

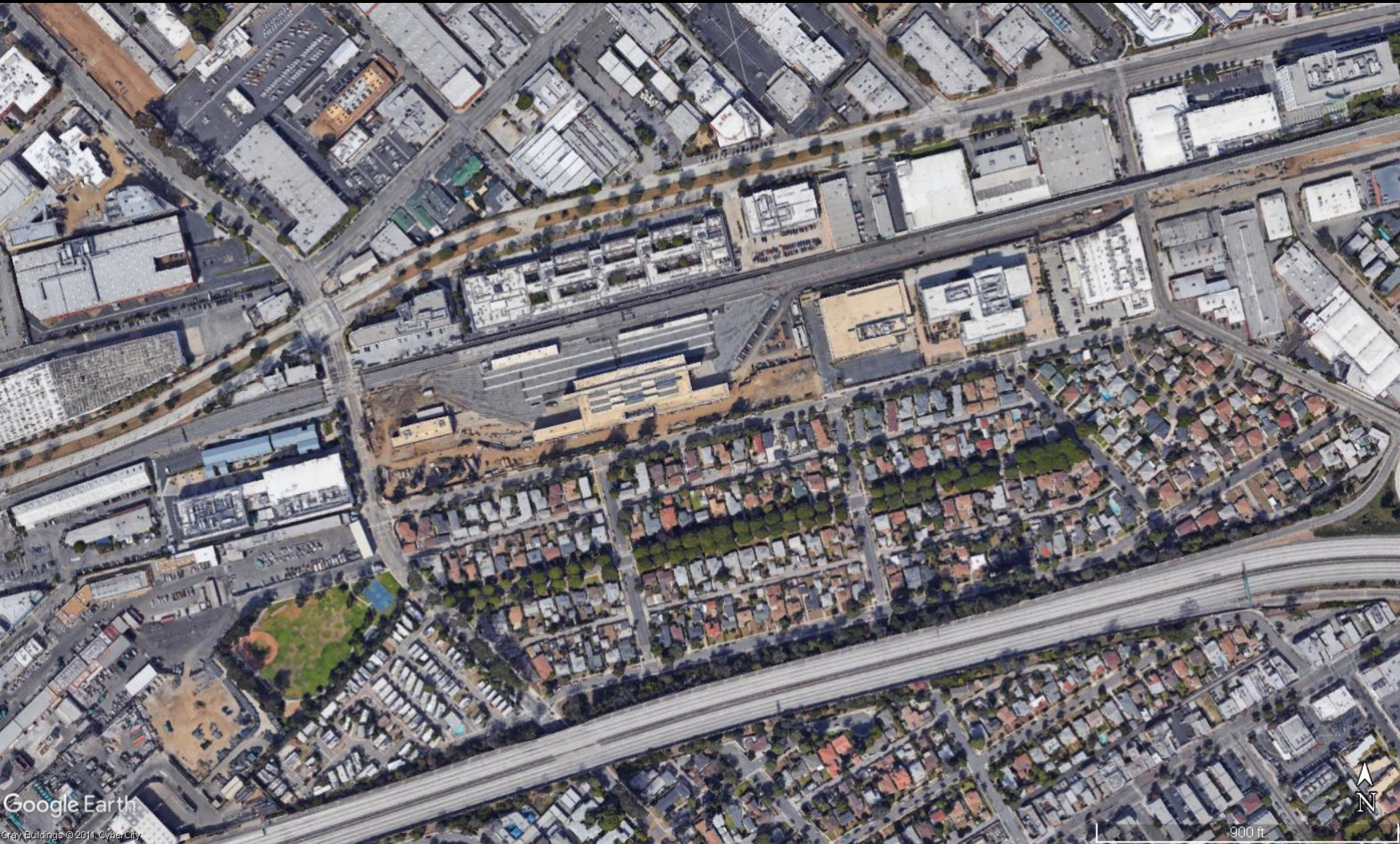




**Downtown
Los Angeles**

Division 14

Santa Monica



Google Earth

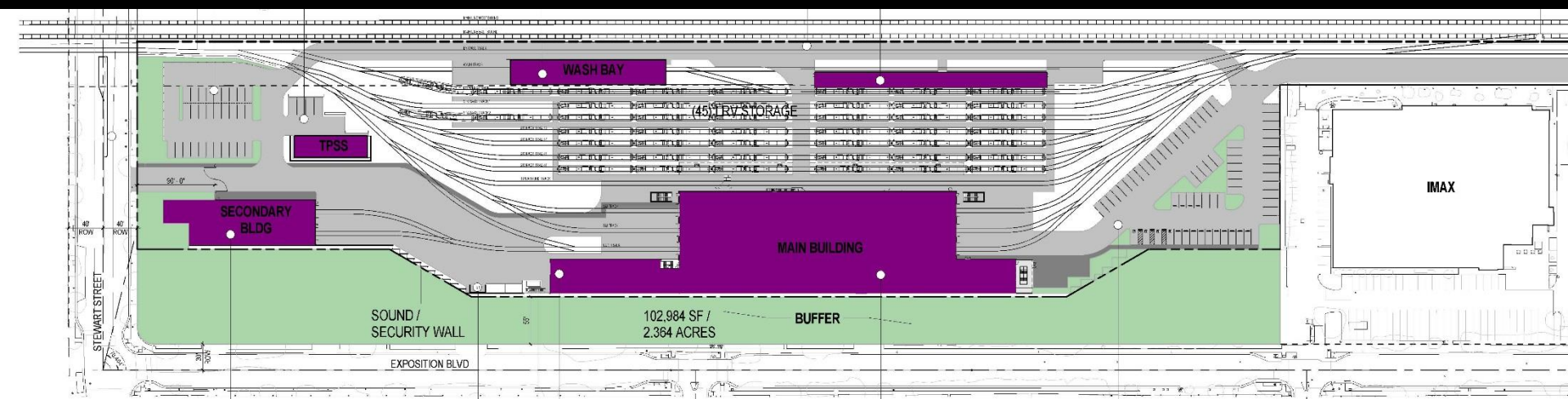
Gray Buildings © 2011 CyberCity

900 ft

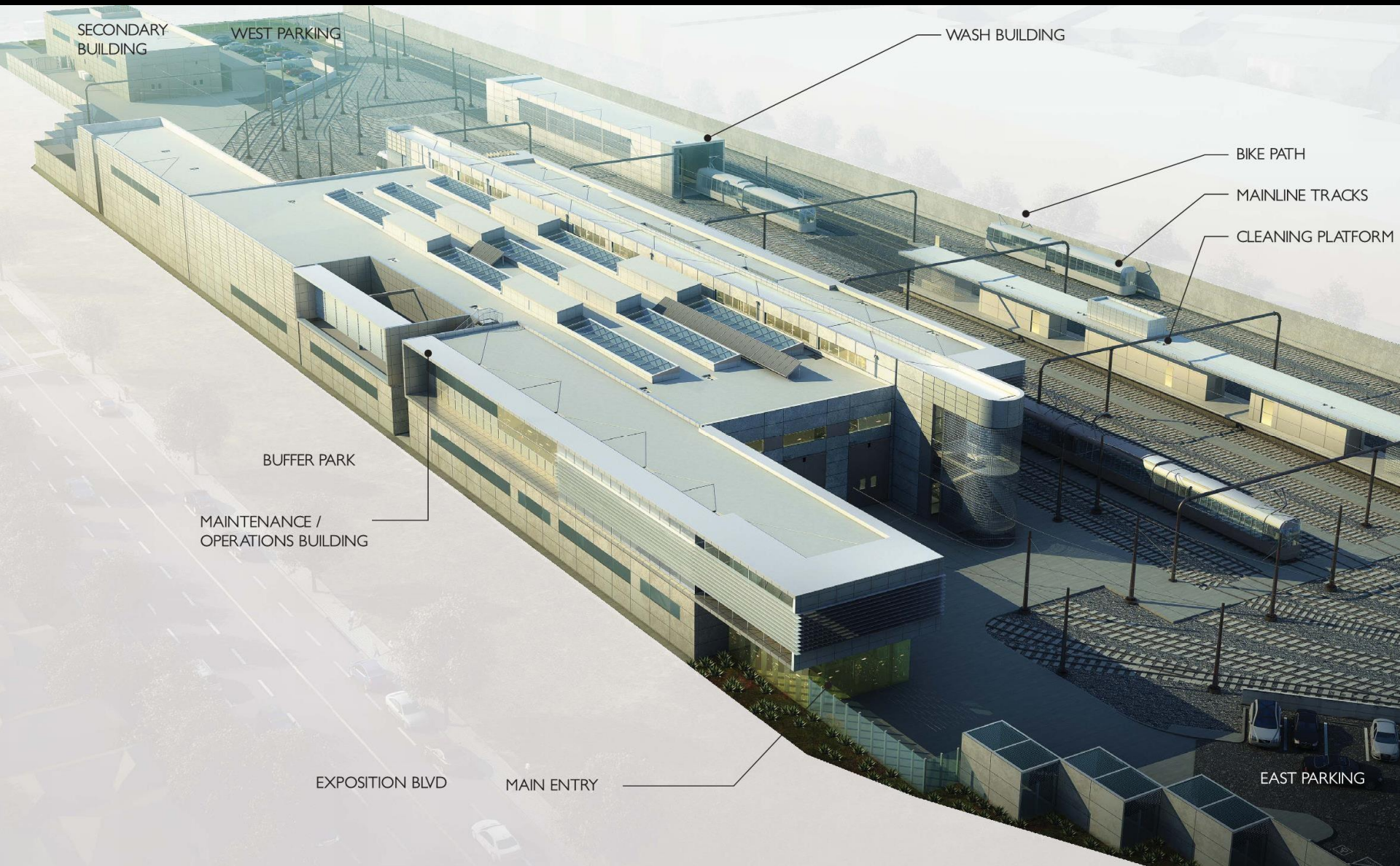












SECONDARY
BUILDING

WEST PARKING

WASH BUILDING

BIKE PATH

MAINLINE TRACKS

CLEANING PLATFORM

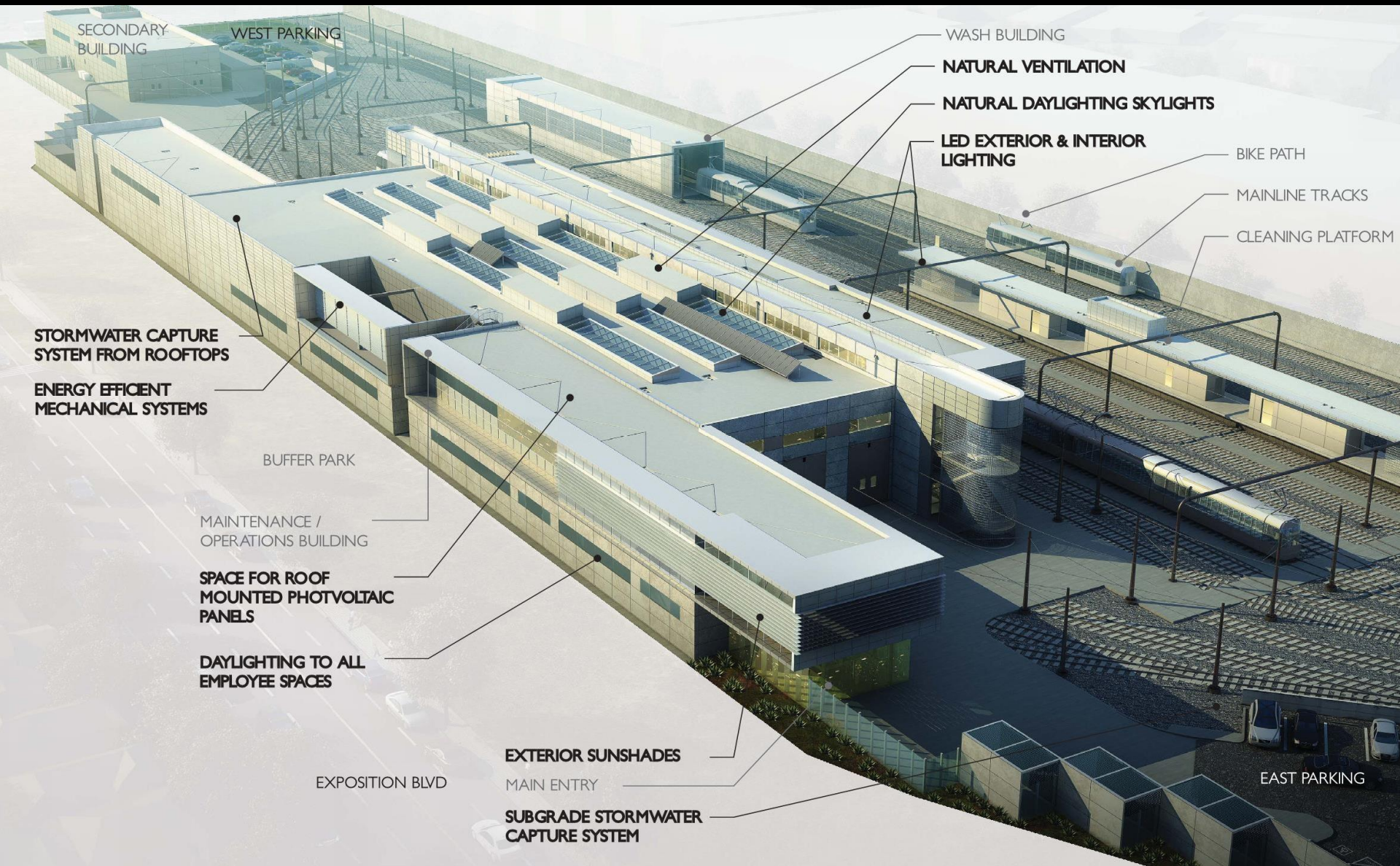
BUFFER PARK

MAINTENANCE /
OPERATIONS BUILDING

EXPOSITION BLVD

MAIN ENTRY

EAST PARKING



SECONDARY BUILDING

WEST PARKING

WASH BUILDING

NATURAL VENTILATION

NATURAL DAYLIGHTING SKYLIGHTS

LED EXTERIOR & INTERIOR LIGHTING

BIKE PATH

MAINLINE TRACKS

CLEANING PLATFORM

STORMWATER CAPTURE SYSTEM FROM ROOFTOPS

ENERGY EFFICIENT MECHANICAL SYSTEMS

BUFFER PARK

MAINTENANCE / OPERATIONS BUILDING

SPACE FOR ROOF MOUNTED PHOTOVOLTAIC PANELS

DAYLIGHTING TO ALL EMPLOYEE SPACES

EXPOSITION BLVD

EXTERIOR SUNSHADES

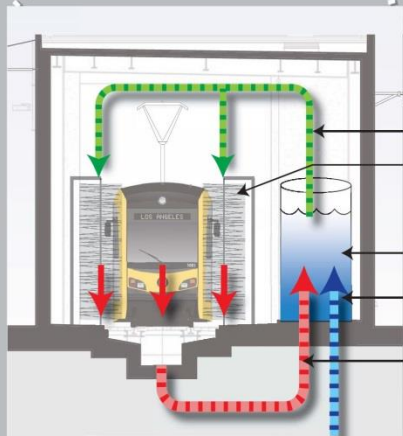
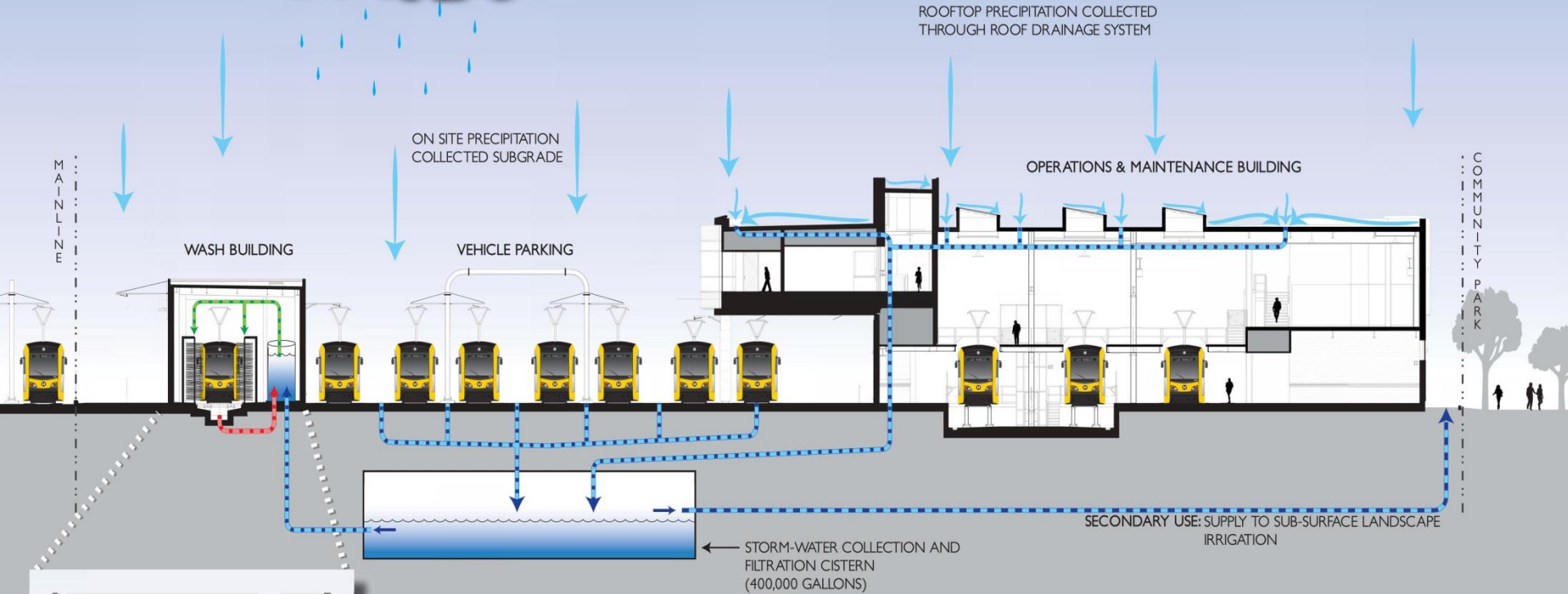
MAIN ENTRY

SUBGRADE STORMWATER CAPTURE SYSTEM

EAST PARKING



AVERAGE ANNUAL RAIN FALL:
13.32 INCHES (NOAA 1971-2000)



SUPPLY TO WASH SYSTEM
VEHICLE WASH SYSTEM

FILTRATION SYSTEM

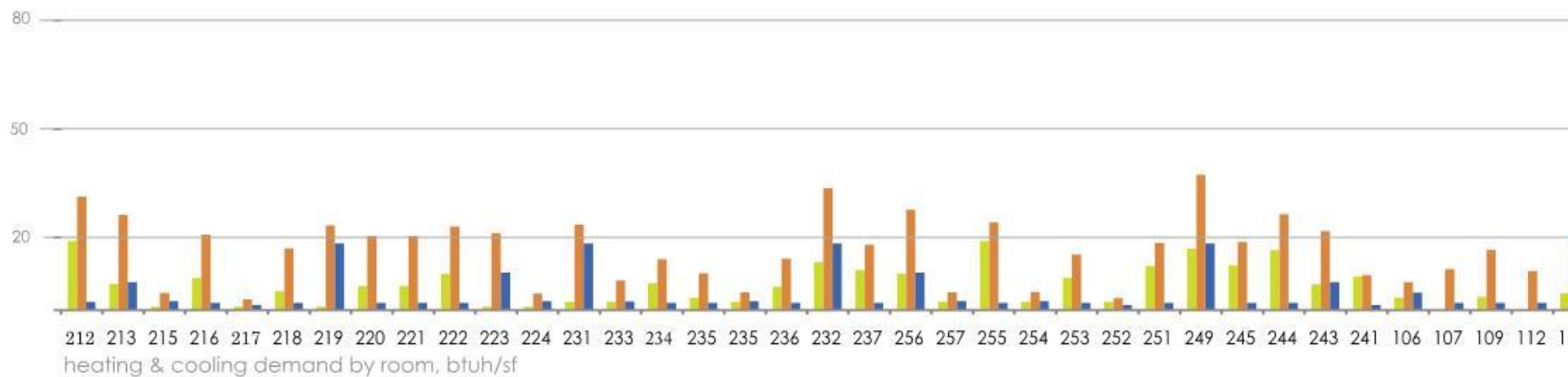
SUPPLY FROM STORM WATER-TANK

RECLAIMED WATER

**WATER RECLAMATION
AND FILTRATION PROCESS**

STORM-WATER COLLECTION & REUSE SYSTEM
LA METRO EXPO RAIL LINE
OPERATIONS & MAINTENANCE FACILITY





standard energy use

demand reduction through design

proposed energy use (20% less)

solar thermal system

SOUTHERN CALIFORNIA EDISON 95.3%

**236 kW
photovoltaic system**

NET ZERO ENERGY

PROCESS 8.48%

RECEPTACLE 30.21%

LIGHTING 27.85%

DOMESTIC HOT WATER & PUMPS 1.56%

INDOOR FANS 4.85%

SPACE COOLING 25.08%

< ENERGY SOURCES ENERGY DEMAND >



Division 14
Operations and
Maintenance Facility
1955 Centinela Avenue

 **Metro Division 14**
Operations and
Maintenance
Facility

FIRE LANE NO PARKING





Metro

Division 14

Operations and
Maintenance Facility

Division 14

Operations and
Maintenance Facility















TRUCK SHOP



Metro

&I 2A

CAUTION

2B S&I



Questions

