

## **PHASE B - Building**

RR

### **Development of the Second Storey Parking Garage, Third Storey Concourse Level, East Wall Extension, Locomotive Area and Lowering the Annex Roof**

This would be the first phase if the building is developed as proposed. In addition to the work completed in Phase B, the construction in this phase is to accommodate the subsequent phases so they can just “move in”.

This phase includes constructing additional floor levels within the building by leveraging the robust capacity of the existing steel columns, which once supported the dynamic live loads of the 200-ton crane beam. Although the columns have significant bearing capacity, limitations of precast floor spans and loads applied for the 50 PSF second-storey parking, the 150 PSF section of the Concourse Level Library, and the 150 PSF section of the fourth-storey Library required two lines of precast concrete columns and helical pier foundations to be added midspan in each bay.

Although the clear height to the underside of the existing trusses are 35 feet in the 65 feet wide bay and 50 feet in the 70 feet wide bay, they are a challenge for cranes installing precast columns and the hollow core floor system that resulted in additional crane set up time to build smaller areas of the floor versus one set up time for larger areas of the floor.

Reinforced cast-in-place concrete columns bearing on helical piers will bear the suspended, reinforced concrete floor system supporting the cantilevered east extension curtain wall window system, 100 PSF floor, 50 PSF roof and also the 1,000 PSF floor supporting the locomotive.

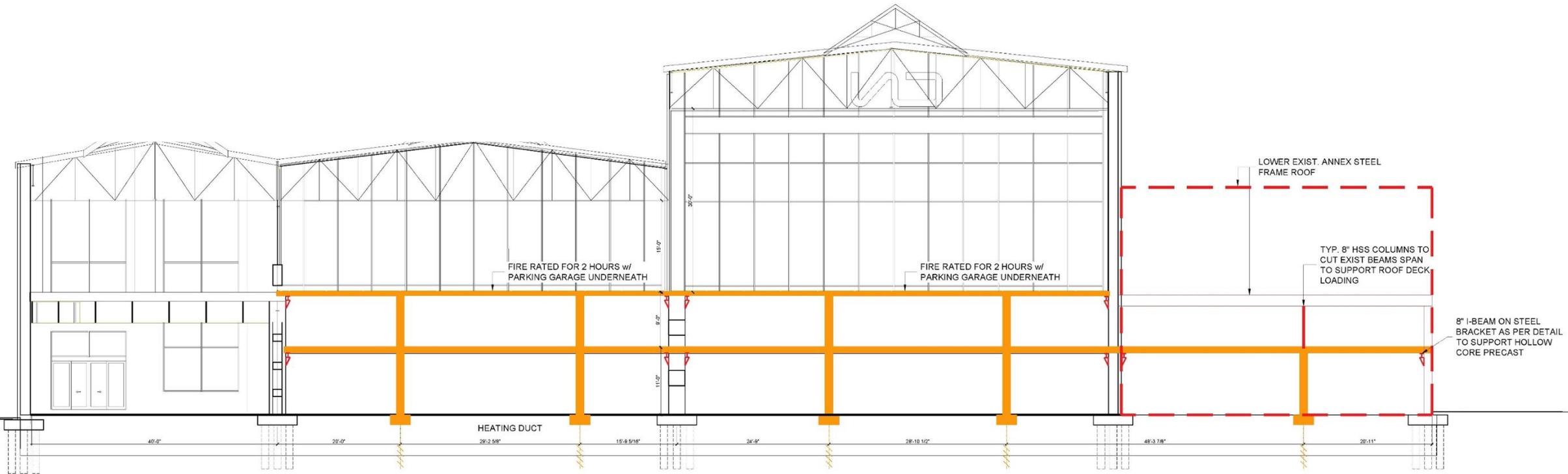
The structure of the third-storey Concourse Level is 20 feet above the existing floor inline with the existing reinforced concrete mezzanine. The second-storey parking garage is 11 feet above the existing floor, allowing about 10 feet of clear height under the vehicle bridge to the Argyle Pedestrian path.

The roof system is similar to Phase R; however, the roof of the 65-foot bay over the locomotive is raised, and skylights are added, as it is more economical to install skylights as part of the work rather than roofing over the skylights, removing the new roof, and installing skylights later.

Sections of the Mezzanine and Annex are demolished to create entrances and streets through the building, and the Annex roof is lowered to accommodate future rooftop patios. A freight elevator shaft would be developed in the Annex's east section.

# **PHASE B – Building Parking & Concourse** **Level - Section**

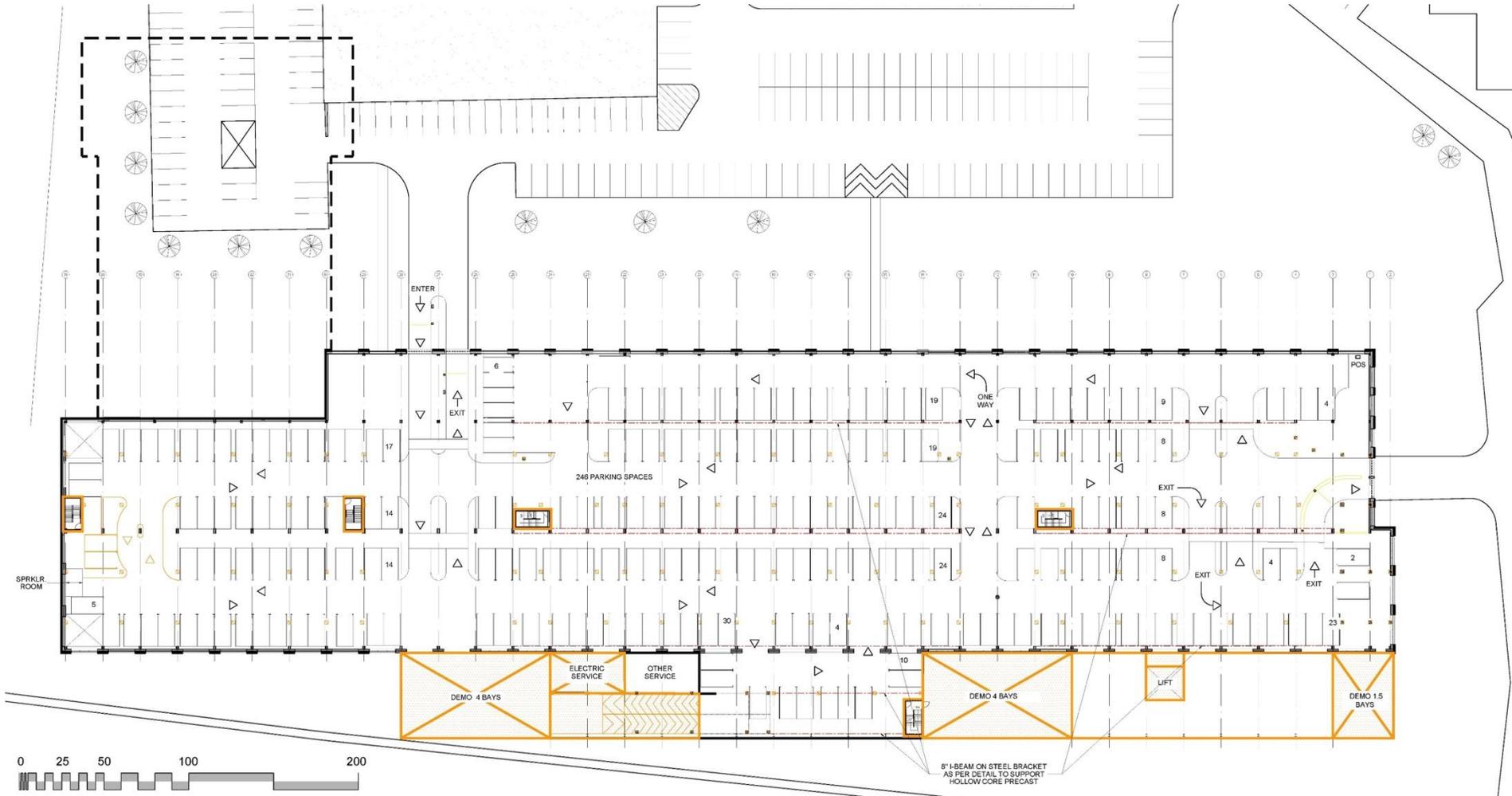
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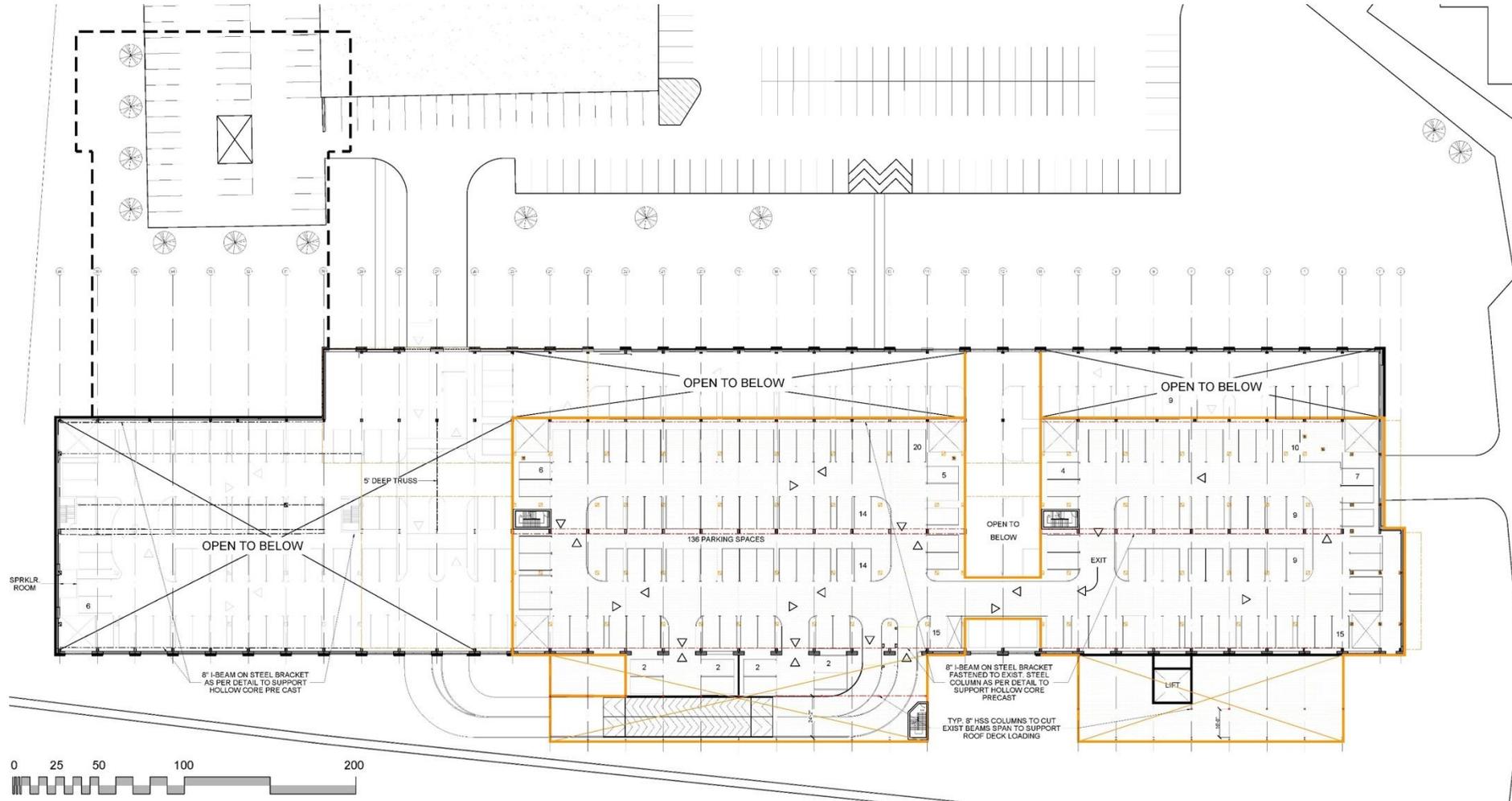
## Level - First



# **PHASE B – Building Parking & Concourse**

## **Level - Second**

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# PHASE B – Building Parking & Concourse

## Level – Third - Concourse

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