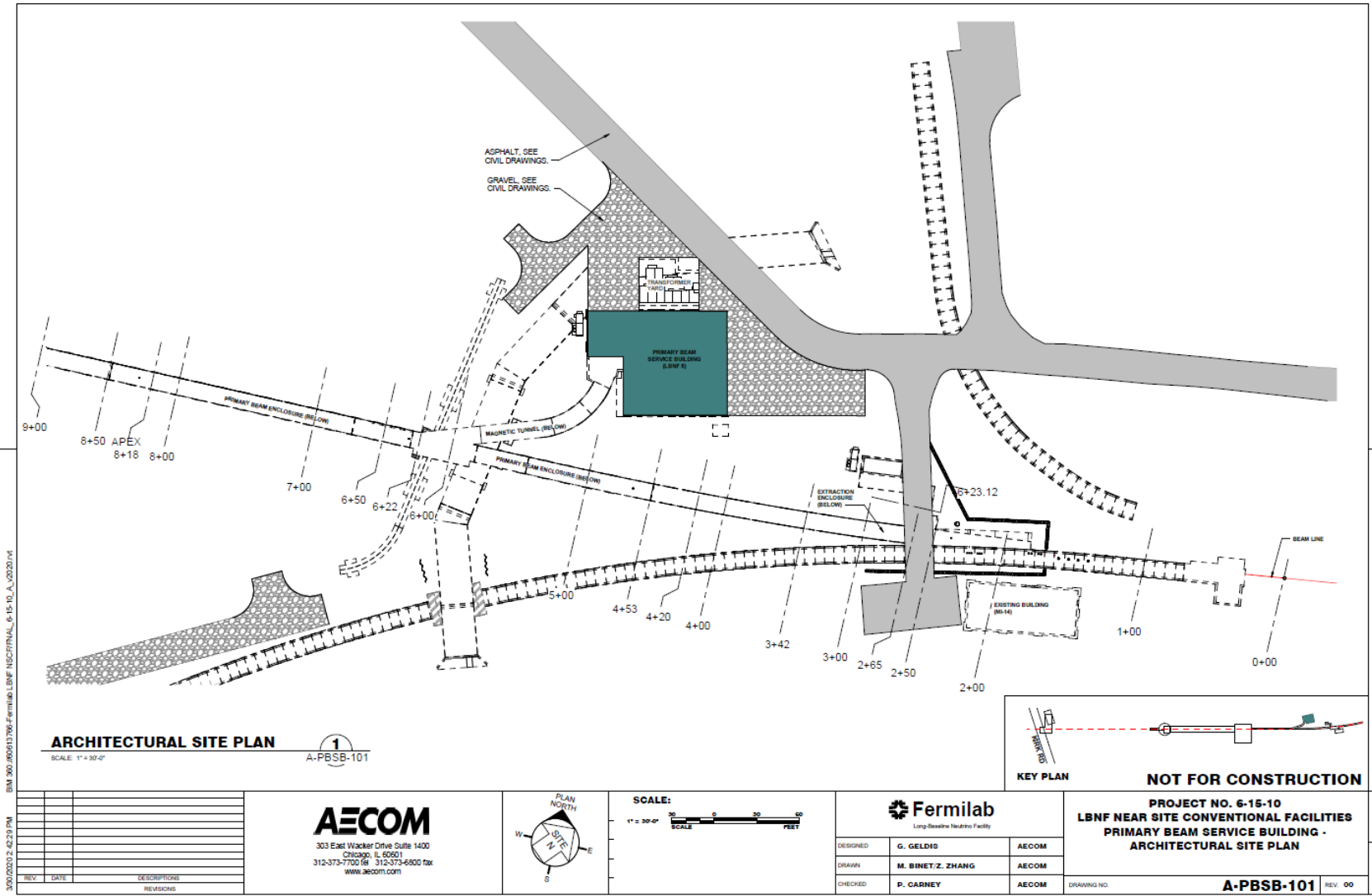


LBNF-5 Magnet Installation Area Requirements

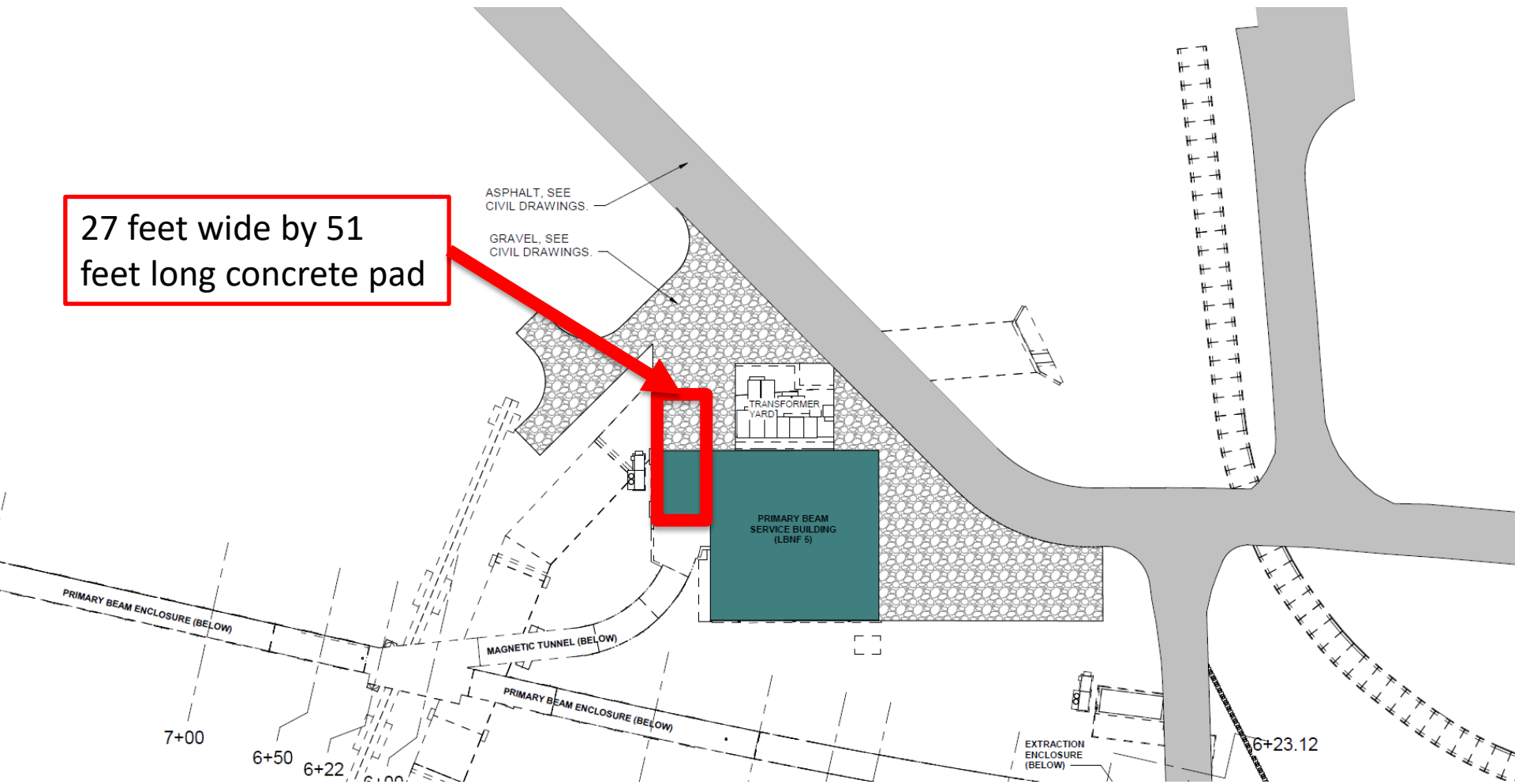
Kevin Duel, Dan Vrbos
LBNF Magnet Installation
July 1, 2020

Plan View for Reference



Concrete Pad Requirement for Trailer, Magnet Vehicle, Crane

27 feet wide by 51 feet long concrete pad

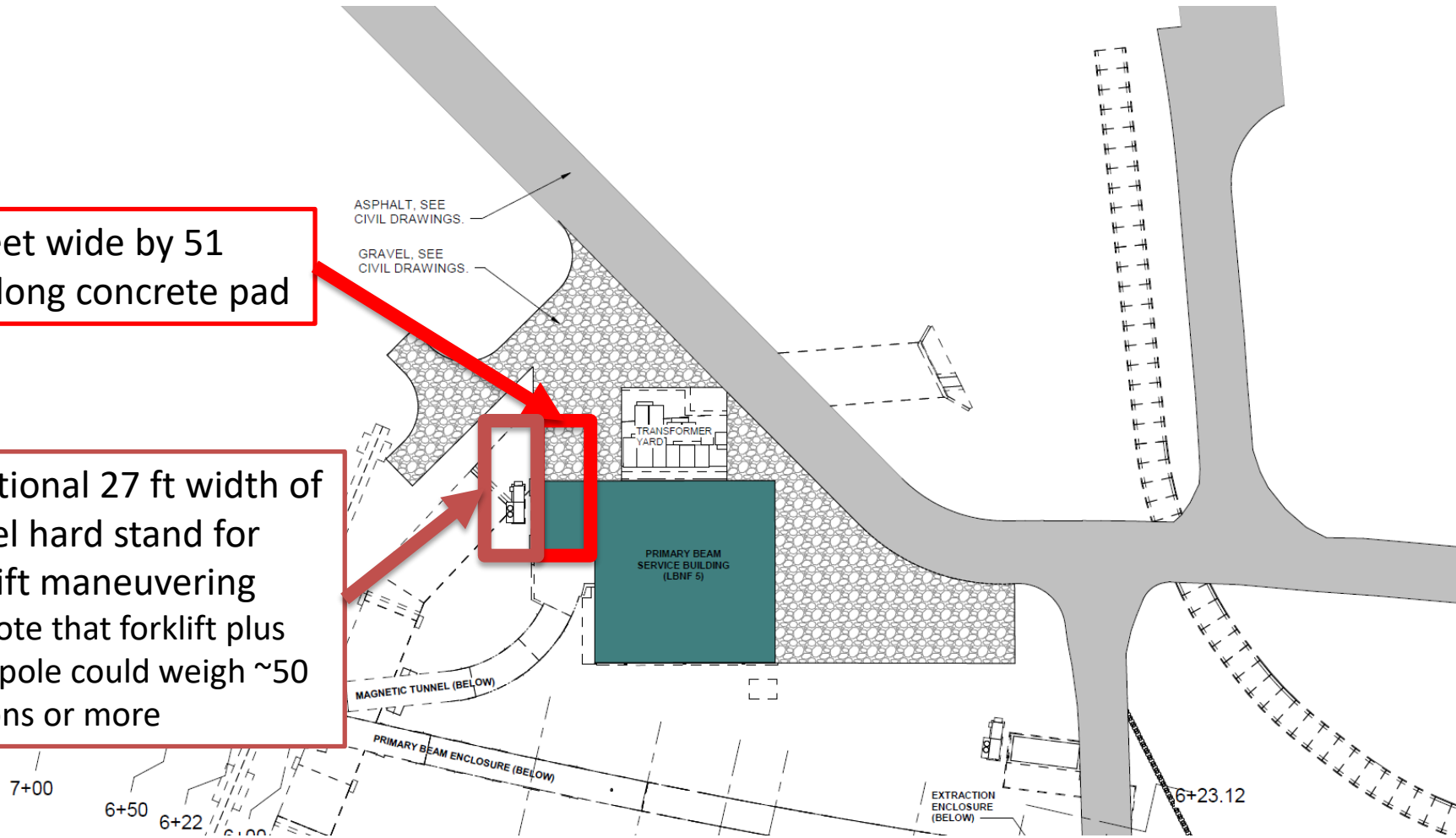


Gravel Hard Stand Requirement for Trailer, Magnet Vehicle, Forklift

27 feet wide by 51 feet long concrete pad

Additional 27 ft width of gravel hard stand for forklift maneuvering

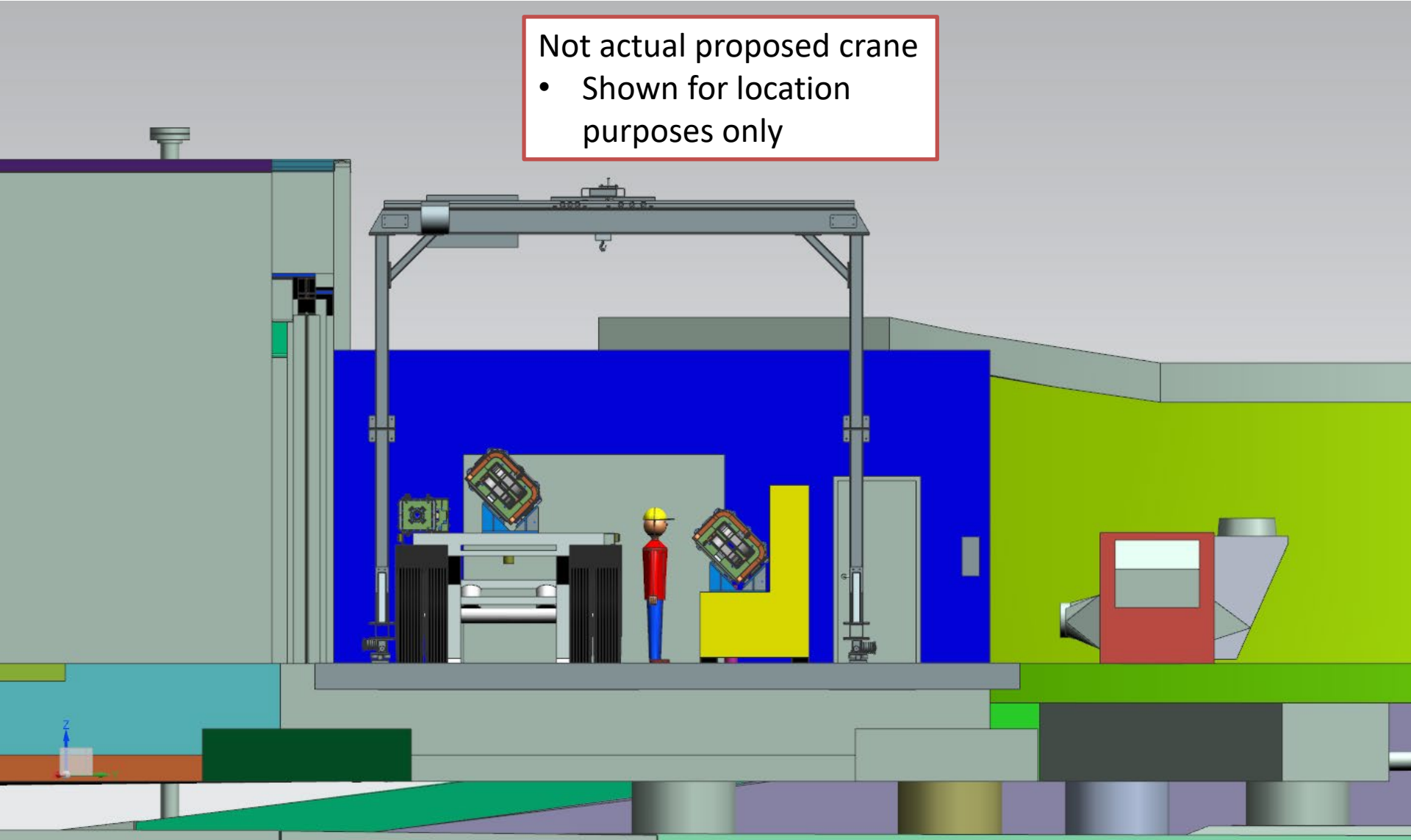
- Note that forklift plus dipole could weigh ~50 tons or more



Concrete Pad Requirement for Trailer, Magnet Vehicle, Crane

Not actual proposed crane

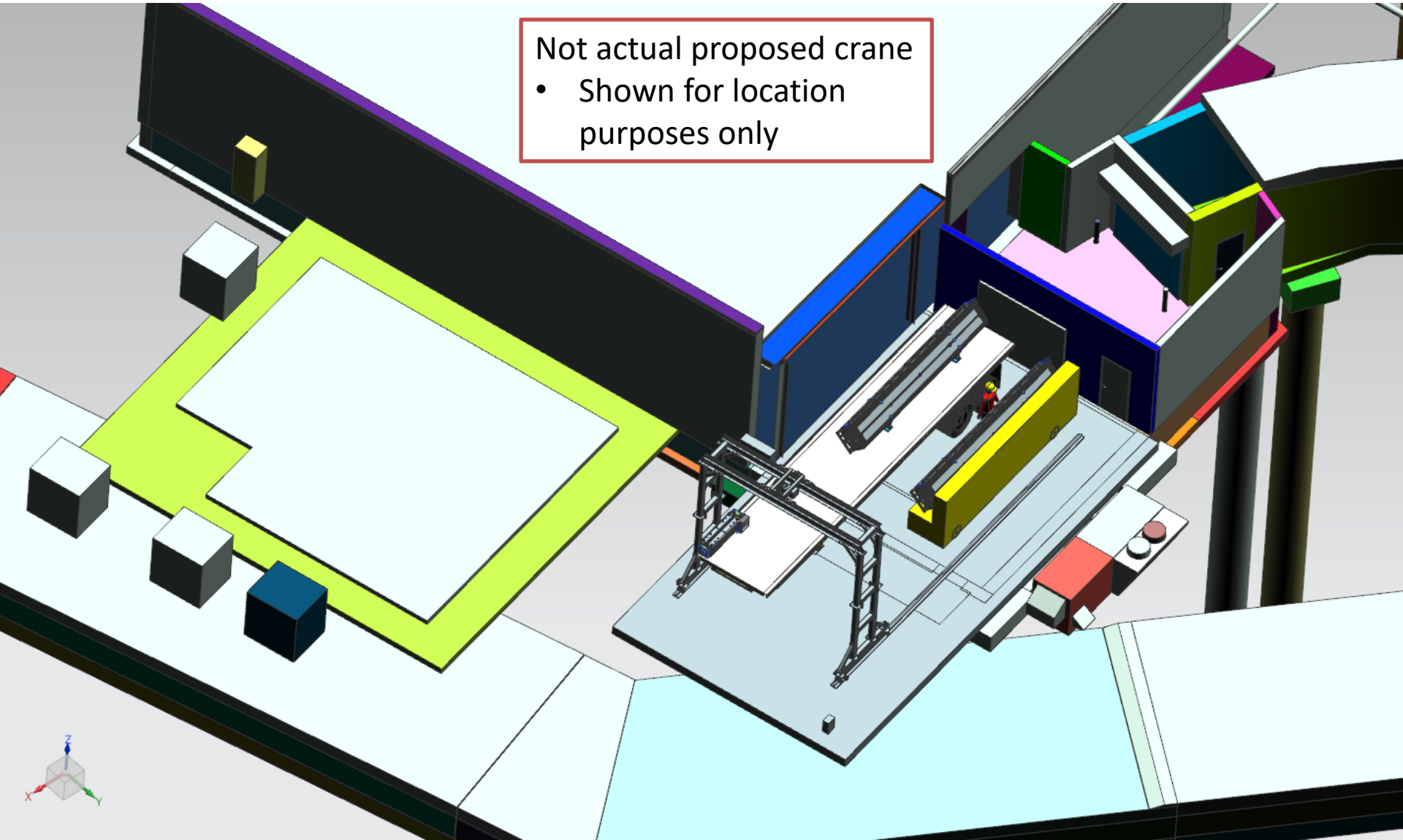
- Shown for location purposes only



Concrete Pad Requirement for Trailer, Magnet Vehicle, Crane

Not actual proposed crane

- Shown for location purposes only



Open Cylinder Hydraulic Gantry Lift System

- Quote received for ~ \$13k per month rental
 - Magnet installation schedule ~2 months
- 220 V, 10 A draw
- Some side shift included (see below pic)

