

Kedzie Avenue Bridge Replacement over Belt Railway Company

IDOT retained RJN Group, Inc. to provide engineering services for the deck replacement and minor repairs to the substructure on Kedzie Avenue where it passes over the Belt Railway Company in Cook County, Illinois.



The Kedzie Avenue structure consists of a five-span steel beam / girder continuous

structure. There are two spans at 91.5 feet, two spans at 59 feet and one span at 114.75 feet. The overall back-to-back of abutment length is 420.83 feet. The bridge cross section consists of four 12-foot lanes and a 5-foot sidewalk. Also included in this project is the replacement of the retaining wall at the northeast



quadrant. This will consist of building a 530-foot long wall varying in height from 22- to 0-feet. The wall will be built in front of the existing wall so a temporary retaining wall will not be necessary. The wall will be a soldier pile wall with precast panels between the soldier piles. The wall will have tiebacks attached to a dead man buried underneath Kedzie Avenue. This wall is classified as Advanced Typical by IDOT.

RJN's responsibilities include:

- Supplemental survey
- Structure boring and analysis
- Type, size, and location plans
- Bridge plans
- Retaining wall plans
- Roadway plans
- Traffic signal plans
- Lighting plans
- Estimates
- Specifications
- Permits
- All other work required to complete the project