Rapid bridge construction for the Bus Rapid Transit in Calgary

With both the girders and bridge deck now in place for the 2 Bus Rapid Transit (BRT) bridges, the Southeast side of the City of Calgary is now one step closer to more efficient and reliable transit.

PCL Construction came to AP Infrastructure Solutions LP with the Deerfoot Trail and Canal bridge designs early on in the proposal process in order to get the team to weigh in on the precast bridge components.

Fabricated over the winter in the controlled environment of the AP Infrastructure Solutions LP Engineered precast plant, there were 15 NU Precast concrete girders for each bridge. The girder lengths varied across the structures, from 35 to 55 metres – weighing up to 112,000 kilograms.

These massive pieces are detail alone is a complex one to coordinate delivery to site, even with Calgary precast plant is mere kilometres away. And as in any urban infrastructure projects, scheduling the best time to construct without interrupting the regular traffic flow is always a challenge as well. Especially main city arteries like Deerfoot Trail.

But AP Infrastructure Solutions LP had plenty of bridge installation experience to draw from.

OWNER
City of Calgary

GENERAL CONTRACTOR
PCL

ENGINEER
Stantec

LOCATION
Calgary, AB

TECHNICAL DETAILS
30 Bridge Girders
237 Deck Panels
Well-equipped to meet the planned roadway shut-down dates, the evening installations of the girders for took place from midnight to 6 am over the course of 3 nights.

AP Infrastructure Solutions LP also produced, delivered and installed 237 precast concrete deck panels for both of the bridges, as well as another 265 deck panel girder structure over the Bow River.

By the end of 2018 the 17th Avenue S.E. BRT service on their dedicated lanes will begin, and the multi-use pathways will open to the public!

Find out how Precast Concrete can be used on your next project. Contact us today.

AP Infrastructure Solutions LP is your precast partner in Western Canada. We pride ourselves in being leaders in precast concrete innovation, and are eager to share our knowledge with our customers, and together, build more resilient, energy efficient, sustainable, safe, and durable structures.

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