



IH-410 OVER LEON CREEK – NBML & SBML WIDENING – TXDOT SAN ANTONIO DIST. Bexar Co. TX

DECON as Structural Designer and EOR for a 550 ft. three continuous units bridge widening, SB and NB, each unit has three continuous spans superstructure made of rolled steel beams supported on pile bents founded on drilled shafts.

DECON performed structural analysis and design and produce construction documents for the Texas Department of Transportation USD 1 Million widening of IH 410 over Leon Creek in San Antonio TX, as part of a larger highway interchange improvement project, widening this 550 ft segment of both the northbound and southbound lanes added capacity as well as provided entrance and exit ramps to new structures within the interchange.

The geometry of the alignment at this location resulted in a complex superstructure framing solution with different beam lengths and skew angles along the entire bridge. DECON used Bentley's LEAP Steel parametric modeling capability to quickly generate a structural model to design and analyze the structure. Using Bentley BIM technology, including GEOPAK and Open Roads/Bridge modelers, the construction documents were prepared under very tight schedule.