FOR APPROVED PILOT Local Bridge Replacement Program

Standard Bridge Tool Parameters

Overview
- The Standard Bridge Design Tool will allow for more efficient designs for single span slab bridges, primarily on local roadways in stream crossing locations.
- The parameters listed below are the options that are available via the tool for utilization based on the preliminary type/size/location design that is completed by the designer.

Superstructure
- Span length
  - Centerline-to-centerline bearing lengths from 24'-0" to 48'-0" in 4-ft increments (7 options)
- Skew Angle
  - 0° to 20° skews in 5° increments both left-hand forward and right-hand forward (9 options)
- Roadway Clear Width
  - 24'-0" to 30'-0" clear width from toe of parapet to toe of parapet (or face of railing to face of railing) in 2' increments (4 options)
- Railing Types
  - Type M or 42” single slope parapets (2 options), Type NY4 coming soon
- Paving Notch
  - Tool allows for use of notch or no notch depending on roadway approach slab type (2 options)

Substructure
- Abutment Type
  - Standard A5 abutments with 45° wings (1 option)
- Abutment Height
  - Height from 5'-0” minimum up to a maximum of 8'-0” for the shortest dimension of the abutment body in 1’ increments (4 options)
  - There will be future options for a 9'-0” minimum abutment height, as well as another option with a 10'-0” maximum option where the 10’ is located at the maximum height (crown or edge for superelevation)
- Piling Type
  - HP 10x42, 10.75“x0.219 CIP, or 10.75“x0.25 CIP piling (3 options)