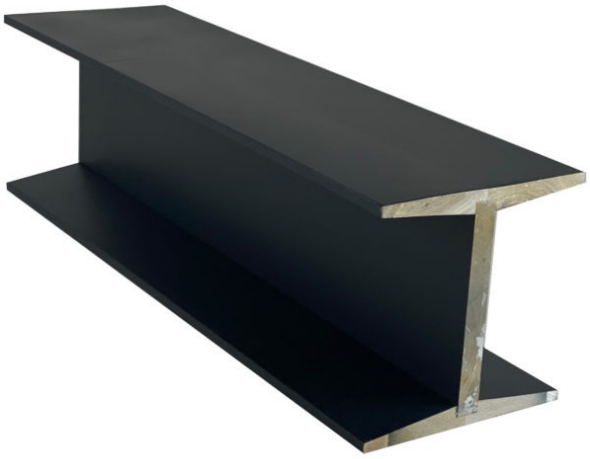
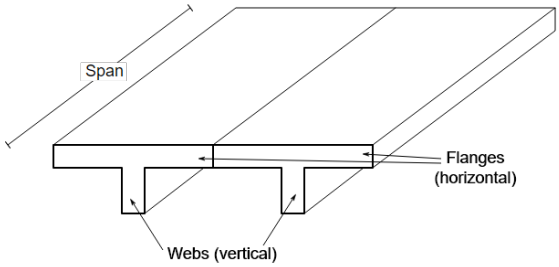
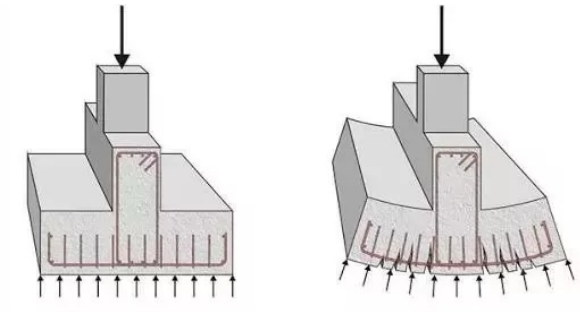
Beam Type

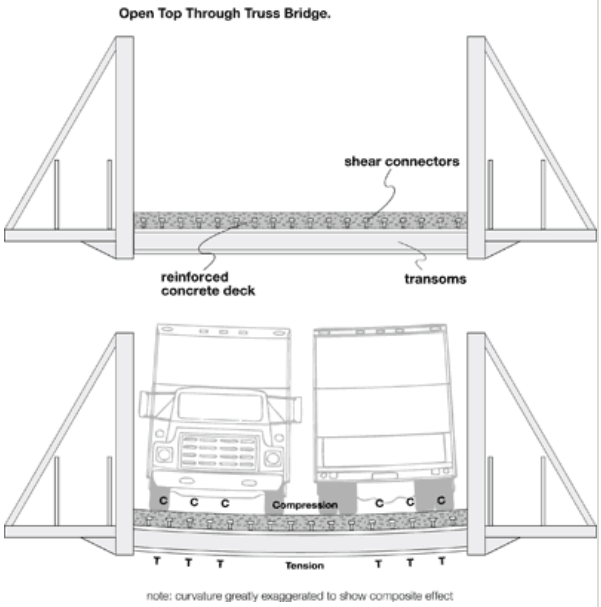
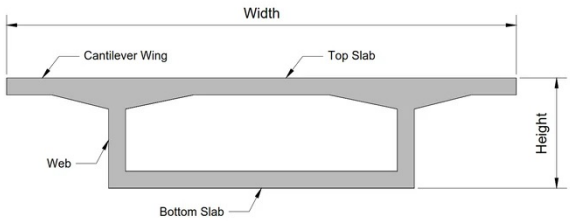
27/06/2025 12:18 pm +10

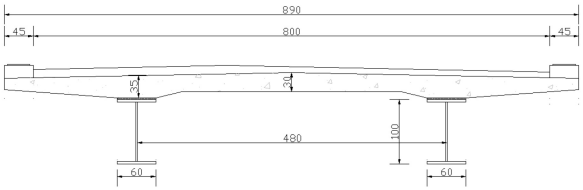
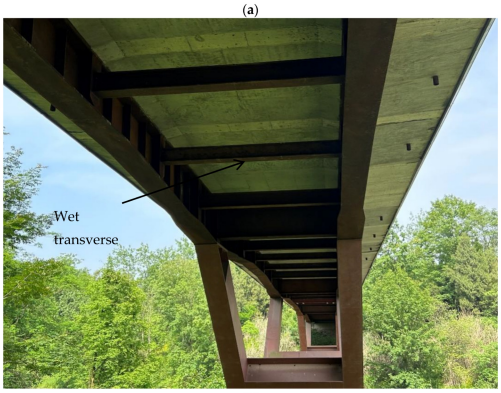
AWM Table:	**Bridges, Bridge Beam, Bridge Span**
Attribute:	**Beam Type**
Purpose:	To identify the specific shape or form of beams used in a structure, which supports design classification, structural assessment, and maintenance planning.

Value	Description	Photo Example
Double Core Unit	A precast concrete beam with two hollow cores running through it, used to reduce weight while maintaining strength.	
I Beam	An I-beam is a structural steel member with an I-shaped cross-section that's used in many construction projects. These beams have the capacity to withstand various types of loads.	

Value	Description	Photo Example
U Beam	A type of steel beam, which is a structural steel product with multiple uses mainly in the construction sector. U-Beams are also known as a parallel flange channel or C Beams. They typically can be welded together to form I-Beams.	
T Beam	T beam bridges have cast-in-place, reinforced concrete beams with integral deck sections to either side of the tops of the beams.	
Inverted T Beam	An inverted T-section concrete beam is a type of beam that has a cross-sectional shape that resembles an inverted letter "T". The top of the beam is flat, while the bottom of the beam has a flange that extends out on either side. Inverted T-beam is used when the beam is subjected to hogging moments.	

Value	Description	Photo Example
Log Beam	A large piece of wood, or log, that is used to create a structure.	
Plate Girder	A structural element made of welded or bolted steel plates that is used to support heavy loads and spans in bridges.	
Precast Concrete Panel	A bridge deck made of a series of prefabricated concrete panels that are cast off-site and then installed at the bridge site.	
RSJ and U Beam	Rolled Steel Joists and Universal Beams are are both types of steel beams used for structural support in construction and engineering.	

Value	Description	Photo Example
Stringers and Transom	Steel beams which span under the roadway and carry the loads of the roadway to the trusses or beams.	
Bailey	A type of pre-fabricated, modular steel truss bridge used for temporary or emergency crossings; quick to assemble without heavy equipment.	
Box Girder	A hollow, rectangular beam—often made of steel or concrete—that provides high strength and stiffness, used for longer spans.	

Value	Description	Photo Example
Truss	A beam made from a connected framework of triangles, efficiently distributing weight across long spans.	
Frame	A beam system where horizontal and vertical members form a rigid structure, typically seen in rigid frame bridges.	 (a)  (b)
Girder	A large, solid horizontal support beam (usually steel or concrete) that holds up the bridge deck and transfers loads to the piers or abutments.	
Unknown	The beam type is not recorded or cannot be identified based on available information.	
Not Applicable	No beams are used in the structure, or the structure type does not involve beams.	