

# Metal Only Bridge Rail

**Table 1: Number of States Interested in Using**

	Test Level			
	TL-2	TL-3	TL-4	TL-5
Deck Mounted	1	4	7	0
Side Mounted	6	0	2	0
Other	3	0	4	0

Table 1 shows information gathered in the past regarding the interest that partner states had in using bridge rails of a given shape and test level.



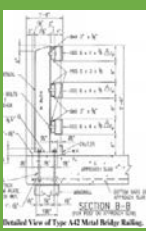


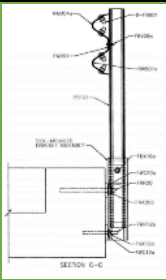

**Table 2: NCHRP 20-07 Global Equivalency**

NCHRP Report 350 Rail System Type	MASH Test Level			
	TL-2	TL-3	TL-4	TL-5
Metal Beam-and-Post Deck Mounted	TL-2 TL-3 TL-4			TL-5

Table 2 shows the NCHRP 20-07 Task 395 recommendation regarding global equivalency of systems previously tested and passed NCHRP 350.

Table 3 lists known MASH compliant systems

**Table 3: MASH Compliant Systems**

	Test Level			
	TL-2	TL-3 <sup>A)</sup>	TL-4 <sup>B)</sup>	TL-5 <sup>C)</sup>
Deck-Mounted	<p>31" TxDOT Type T631LS Approach: Full Suite Doc: FHWA/TX-14/9-1002-12-</p> 	<p>31" TxDOT Type T631 Approach: Full Suite Document: FHWA/TX-14/9-1002-12-12</p> 	 <p>42" Type A42 Metal Br. Rail. (NM) Doc: NCHRP 20-07, Task 395</p>	<p>42" TBTA Bridge Rail Approach: Full Suite FHWA Eligibility Letter B274</p> 
			<p>31" MGS Bridge Rail FHWA Eligibility Letter B228</p> 	
Side-Mounted		 <p>31" Side-Mounted Weak Post Guardrail Attached to Culvert Eligibility Letter B264</p>	<p>42" Caltrans Side Bridge Rail ST-70 Approach: Full Suite Document: 110MASH3P15-01, 110MASH4C15-02, 110MASH4S16-03</p> 	

- A) 29 in. min.height based on finite element simulations (NCHRP 20-07).
- B) 36 in. min.height based on *Determination of Minimum Height and Lateral Design Load for MASH Test Level 4 Bridge Rails.* (Report No. 9-1002-5).
- C) 42 in. minimum height as requirement that remains from NCHRP Report 350.

# Discussion Points

Understand the information presented in Table 1

Understand the information presented in Table 2

Understand the information presented in Table 3

- 1) DISCUSS plan of attack. Considering the information in the tables,
  - Does the group want to consider the category (enough work already been done/enough “tools already in the toolbox”)?
  - If included, does the group want to limit the scope of discussion to certain test levels or configurations?
  - OR, just “send all systems you are interested in”
- 2) Other GROUP DISCUSSION ITEMS?