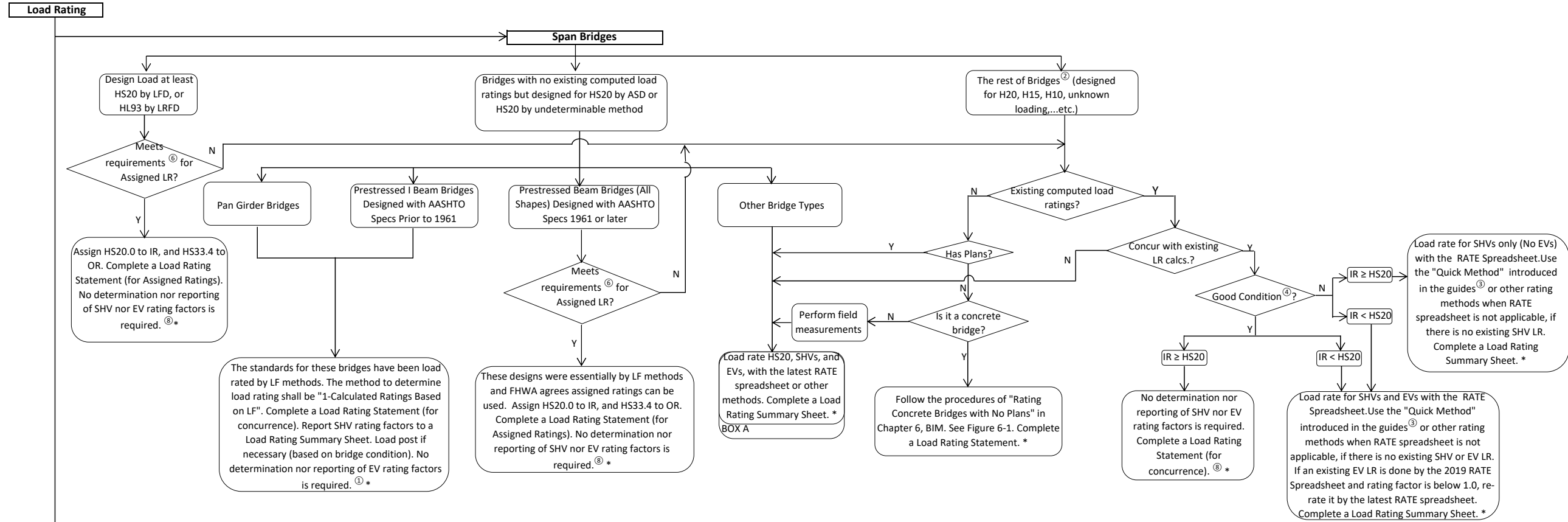


Flow Chart For Load Rating Items



General Notes:

* Verify all load rating items which include Item 31, 41, 41.1, 41.2, 63, 64.1, 64.2, 65.1, 66.1, 66.2, 70, and 103, and update if necessary.

Culvert load ratings, where necessary, are being handled under separate Work Authorizations.

Item 41 shall not be changed to "B - Load Posting Required" if EV rating factor is below 1.0.

Assumed load ratings shall not be used for steel culverts. Load ratings need to be performed.

Bridges in District 12,13,16, and 21 which are load posted for 84,000 lbs gross have been evaluated by Bridge Division for the Ocean Container Loadings. In many cases there are no load rating documentation for these bridges.

For now, Off-System bridges can still be rated using AS but we will be transitioning to LF rating in the future.

① Use the rated standard when it represents a reasonable approximation of the capacity of the bridge being examined taking into consideration geometry, dead load, condition, etc. Otherwise proceed BOX A

② This group consists of all bridges designed for other than HS25(LFD), HS20(ASD&LFD) and HL-93(LRFD), which includes HS25 by ASD and any design load modified by THD Supplement No. 1. Many of these bridges have existing LF ratings.

③ "Specialized Hauling Vehicles (SHVs) Load Rating Guide" & "FAST Act's Emergency Vehicles (EVs) Load Rating Guide" by TxDOT

④ Good Condition: for on-system bridges: Item 58 ≥ 4; Item 59 ≥ 5; Item 60 ≥ 5; for off-system bridges: Item 58 ≥ 5; Item 59 ≥ 6; Item 60 ≥ 6

⑤ Concrete box culverts constructed in 2000 or later were most likely designed by LFD or LRFD method.

⑥ FHWA Assigned Load Rating Memo, Dated 09/29/2011, and Chapter 6, TxDOT BIM

⑦ If a concrete box culvert bridge has an expansion slab or it contains non-culvert units, those non-culvert units shall be evaluated by the most applicable of the three load rating methods: Assigned, Assumed, or Calculated ratings. Report the controlling load rating.

⑧ SHV load ratings have been evaluated for these groups of bridges, and no SHV load posting is required.

Abbreviations:

ASD = Allowable Stress Design (Working Stress-WS)

IR = Inventory Rating

SHV = Specialized Hauling Vehicle

LR = Load Rating

LFD = Load Factor Design

OR = Operating Rating

EV = FAST Act's Emergency Vehicle

BIM = Bridge Inspection Manual

LRFD = Load and Resistance Factor Design

MBE = Manual for Bridge Evaluation

BRG = Bridge Division

The load ratings shall be determined by Design Load Correlation method. See below table. HS-20 ratings are reported in HS format, and all other ratings are reported as rating factors.

HS		SU4		SU5		SU6		SU7		EV2		EV3	
IR	OR	IR	OR	IR	OR	IR	OR	IR	OR	IR	OR	IR	OR
14.8	24.8	0.95	1.58	0.84	1.41	0.78	1.30	0.76	1.27	1.28	1.03		

Complete a Concrete Box Culvert Load Rating Summary Sheet. ⑦ *