

**9.5.2—Service Limit States**

Add a new last sentence to the 1st Paragraph as follows:

At service limit states, decks and deck systems shall be analyzed as fully elastic structures and shall be designed and detailed to satisfy the provisions of Sections 5, 6, 7, and 8. Deck slabs shall be designed for Class 2 exposure condition as specified in Article 5.7.3.4.

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**9.7.1.1—Minimum Deck Thickness ~~Depth~~ and Cover**

Revise as follows:

Unless approved by the Owner, the minimum thickness of the ~~depth of a~~ concrete deck, excluding any provision for grinding, grooving, and sacrificial surface, should conform to the deck design standards developed by Caltrans not be less than 7.0 in.

Deck reinforcement to be used in conjunction with the minimum deck thickness should also conform to the deck design standards developed by the Owner.

Minimum cover shall be in accordance with the provisions of Article 5.12.3

**C9.7.1.1**

Revise the 3<sup>rd</sup> Paragraph as follows:

The combinations of minimum concrete cover, concrete mix design and the need for protective coatings on reinforcement described in Article 5.12.3 are based on the results of monitoring bridges in California. Minimum cover requirements are based on traditional concrete mixes and on the absence of protective coating on either the concrete or steel inside. A combination of special mix design, protective coatings, dry or moderate climate, and the absence of corrosion chemicals may justify a reduction of these requirements provided that the Owner approves.

**9.7.1.4–Edge Support**

Revise the 2<sup>nd</sup> Paragraph as follows:

Where the primary direction of the deck is transverse, ~~and/or the deck is composite with a structurally continuous concrete barrier,~~ no additional edge beam need be provided.

**9.7.2.2—Application**

Revise the 1<sup>st</sup> Paragraph as follows:

~~Empirical design of reinforced concrete decks and overhangs shall may not be used be used if the conditions set forth in Article 9.7.2.4 are satisfied.~~

Remove the 2<sup>nd</sup> Paragraph

~~The provisions of this Article shall not be applied to overhangs.~~

**C9.7.2.2**

Add a new 1<sup>st</sup> paragraph as follows:

The durability of empirically designed decks has not yet been proven in high ADTT applications.

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