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Next, the moment diagram due to the prestressing force and including the effect of the intermediate support is denoted as the M2 diagram. This is obtained by structural analysis of the continuous beam subjected to the upward thrust. Since the profile of the tendon is parabolic in each span, the upward thrust is uniform and is given as . The downward thrust at the location of the central kink is not considered as it directly goes to the intermediate support.

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Structural drawings are executed by structural draftsmen. Structural draftsmen typically work under the structural engineer responsible for the structural design. Skilled structural draftsmen convert the engineer's sketches into CAD drawings, and also check that the designs conform to the relevant statutes and building codes.

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What is Structural Analysis? Strength of Materials ...
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2.2 Load Combinations for Structural Design Structures are designed to satisfy both strength and serviceability requirements. The strength requirement ensures the safety of life and property, while the serviceability requirement guarantees the comfortability of occupancy (people) and the aesthetics of the structure.