

8-7 STAY-IN-PLACE METAL FORMS FOR PRECAST CONCRETE AND STEEL SUPERSTRUCTURES

Introduction

This Memo addresses the applicability, design load, plans, and special provisions of Stay-In-Place Metal Forms (SIPMF) for use in constructing cast-in-place concrete decks on precast concrete and steel girders. SIPMF are also referred to as permanent steel deck forms.

Applicability

SIPMF must be allowed as an option to the Contractor for all superstructures with the following exceptions:

- Structures in Freeze-Thaw Areas and Marine Environments, unless the use of SIPMF is approved by the Type Selection Meeting;
- Deck bays with longitudinal expansion joints or longitudinal stage construction joints; or
- Other reasons identified at the Type Selection Meeting.

Design Load

The dead load of cast-in-place concrete decks between girder flange edges must be increased by 10 percent to account for the weight of the form and additional concrete in the form corrugations, except for structures on which SIPMF are not allowed.

Plans

For locations where SIPMF are required, the plans must show those locations.



Special Provisions

For locations not allowing SIPMF, the special provisions must specify that SIPMF must not be used.

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