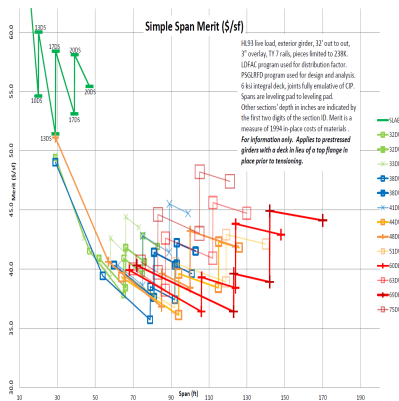




Feasibility Study of Developing and Creating a Standardized Subset of Bridge Plans

Description

Meta Fields

Category : Completed Projects

Group : Standards

Abstract :

Future bridge projects have the potential to benefit from the past 20 years of successfully completed projects. Using past designs for an accelerated and advanced starting point lends itself to a reduction in design time and fees. This proposed subset of standardized bridge plans is one means of implementing the Colorado Department of Transportation's (CDOT's) and the Federal Highway Administration's (FHWA's) mandates: EDC, accelerated bridge construction (ABC), and geosynthetic reinforcing steel (GRS)-IBS. Incidental benefits of using prefabricated bridge elements are maximizing design concepts and speed in construction that minimizes cost. GRS-IBS specifically minimizes the stiffness of bridge approaches and can correspondingly reduce differential settlement (bridge bumps). The objective of this study is to determine if the development of a standardized subset of bridge plans is feasible and cost-effective. The study should also determine what portion of the design type should be included as the standard plans and what type/range of bridges should be standardized

Key Words :

Bridge approaches; Bridge construction; Bridge design; Cost effectiveness; Feasibility analysis; Plans (Drawings)

Budget : 0.00

Project Length : 24

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Other Documents 0 Other Documents File : 1915

Project Starting Year : 2013

Project Completion Year : 2016