

# Building Site Works Substructure And Plant

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digital transformation in the construction industry sustainability resilience and data centric engineering delivers timely and much sought after guidance related to novel digital first practices and the latest technological tools the gradual adoption of which is being embraced to significantly reshape the way buildings and other infrastructure assets are designed constructed operated and maintained methodological and practice informed investigations by scholars and researchers from across the globe providing a wealth of knowledge relevant for and applicable to different geographical and economic contexts are coherently collated in this edited volume this systematic analysis of cutting edge developments such as building information modeling internet of things artificial intelligence machine learning big data augmented reality virtual reality 3d printing and structural health monitoring is accompanied by discussions on challenges and opportunities that digitalization engenders additionally real word case studies enrich the coverage highlighting how these innovative solutions can contribute to establishing

working efficiencies that can at the same time aid the impactful realization of globally recognized sustainability goals readers in both academic and professional settings are therefore not only equipped with a comprehensive overview of the state of the art but also offered an insightful reference resource for future works in the area covers emerging technologies comprehensively emphasizes the use of digital tools to support achievements for worldwide net zero targets focuses on lean and agile construction practices to improve project efficiency and reduce waste

the proposed substructure system described in this report has been developed to improve the aesthetics and reduce the construction time of the support structures for standard bridges the form of the proposed substructures is highly attractive and is a distinct improvement over many traditional short and medium span bridge substructures the substructure system developed is particularly well suited for precasting although the geometric form could be cast in situ precasting would result in the increased use of high performance concrete in the substructures the use of such concrete will bring improved durability since the high performance concrete is greatly resistant to ingress of moisture and chlorides in addition the greater compressive strength of the high performance concretes is utilized for reducing the handling weight and dead load of the substructure units the bent cap units are more complex than traditional cast in place bent caps but appear feasible for plant production or large scale cast on site projects

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