

DELIVERY AND ERECTION OF PRECAST CONCRETE

Prior to delivery and erection of precast concrete products at the jobsite, the field services team conducts preconstruction planning. A determination is made on jobsite access, erection direction and sequencing, identification of any jobsite hazards, and precast product size and weight limitations. A determination will also be made on an installation stability plan, equipment selection such as crane size and placement and whether an arial manlift will be required, and the preparation of an erection safety plan.



All precast products will be inspected at the manufacturer's plant for any yard damage and then loaded for delivery to the jobsite in a required erection sequence for just-in-time delivery and installation. DOT permits and escort vehicles may be required for oversized loads and constant communication and coordination between the loading crew, trucking company and erector is critical to a successful installation.

A PCI-Certified Erector will install all precast concrete products. The PCI Erector Certification Program extends the precast concrete industry's demanding quality standards to the process of erecting finished precast concrete products in the field. The

program provides assurance that the high-quality precast concrete products produced by a PCI-Certified Plant are erected to the exacting standards expected by owners, developers, architects, engineers, and contractors. Handling precast products properly and installing them correctly requires well-trained erection personnel who understand every aspect of lifting, maneuvering, and connecting each precast concrete product regardless of its shape or size. The benefits of specifying a PCI-Certified Erector are prequalification, proven experience, exacting standards, lower cost, faster erection, and assurance of jobsite safety and quality installation.



Prior to precast concrete product delivery and erection, the layout of cast-in-place concrete foundations, cast-in connection weld plates, and anchor bolts are verified. Upon delivery, a visual inspection of the precast concrete products is made on the transport trailer prior to unloading. The erector will follow all product handling instructions as provided by the precast concrete manufacturer. All precast products will remain under control when hoisting and during installation and taglines will be used when necessary to control the load. Welded connections are the most common and typical connection used in the erection of precast concrete. They are structurally efficient and adjust easily to varying field conditions. The connections are usually made by placing a loose plate between two structural steel plates that are embedded in either the cast-in-place or precast concrete and welded together. The installation of all precast products and their corresponding connections will be made in accordance with approved erection drawings. The erector will also provide temporary shoring, guying, and bracing as required to maintain building stability.

