

## CASE STUDY



### PROJECT DETAILS

**Project Name:**

Rev. Jon A. Sibley Sr.  
Underpass (East Main  
Street Underpass)

**Location:**

Galesburg, IL

**Owner:**

IDOT

**Engineer:**

TWM

**General Contractor:**

Lunda Construction

**Product Manufacturer:**

County Materials  
Corporation

**Date:**

2018

**Key Products:**

Prestressed Fascia Girders,  
Precast Pier Caps

### Custom Railway Bridge Components Offer Practical, Design-Focused Solution

**Solutions:** Custom concrete formwork adds character; underpass bridge construction

As part of Illinois' state-wide initiative to upgrade railroad infrastructure, several crossings were reconstructed to improve safety and reduce traffic congestion. Among the projects slated for construction was the East Main Street Underpass, later known as the Rev. Jon A. Sibley Sr. Underpass. The project outlined the erection of a decorative three-track underpass bridge, comprised of steel girders, precast pier caps, and prestressed concrete fascia girders, that would welcome travelers to the downtown business district.

Project leaders relied on the structural advantages, time savings, and design flexibility of prestressed and precast concrete to meet the needs of this project. Unmatched in strength and durability, concrete was the material of choice for supporting the bridge and protecting its structural integrity. County Materials used custom forms to manufacture 12 precast pier caps and six prestressed fascia girders. Inspired by the community's historic charm, the pier caps were cast with a natural stone texture and the center girder features the message "Welcome to Galesburg". County Materials' production team in Salem, IL used their experience in custom formwork to manufacture the bridge components precisely and timely.

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Structural components were placed piece-by-piece during the simultaneous excavation of the underpass and construction of the bridge. Arriving on site ready for installation and immediate use, precast pier caps were essential in maintaining railway operations as construction proceeded below. Once the precast and steel structure was erected, prestressed fascia girders were installed on its exterior to protect against over-height vehicle collisions and prevent disruptive reconstruction.

County Materials worked with the City of Galesburg to design custom forms and manufacture concrete components that met the structural and design requirements of this project. The completed underpass bridge has eliminated train delays, improving traffic flow and emergency response times.



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