

Custom Crossings in Turnouts, Diamond Crossovers & Non- Conventional Tracks

As a supplier, Century Group Inc. is proactive in the railroad industry by ensuring that all sales and technical field representatives have been through the Class I Railroad's e-rail safe program, the Roadway Worker On-Track Safety program overseen by the Federal Railroad Administration (FRA) and the Transportation Worker Identification Credential Program (TWIC) implemented by Transportation Security Agency (TSA) and the U. S. Coast Guard. Safety and security at jobsites is the highest priority at Century Group Inc.



Double Crossover – Commuter Rail

Expertise

Extraordinary projects are an everyday occurrence at Century Group. Century Group's wealth of experience from being in the railroad construction and maintenance business spanning over four decades makes us the most qualified manufacturer of concrete railroad grade crossings to fit turnouts, diamond crossovers, third rail and any other custom track structure. Whether it's working around heel blocks, hook plates, closure rails, switch rods or switch point guards we can make it work. Our experienced technical staff can evaluate your project and take as-built field measurements allowing Century Group to manufacture custom concrete grade crossing panels to fit around even the most intricate parts of your switch, frog, diamond and other track components.



Custom Concrete Crossing In Tongued Switch

Project Development

When planning a project, Century Group Inc. can provide owner/engineers with budgetary cost estimates to manufacture and deliver custom concrete grade crossing panels to your project. This step can be performed by studying sketches, drawings or photographs of the turnout or custom portion of the track where concrete crossing panels are required. Once the location and length of grade crossing panels are determined, our technical sales staff will provide budgetary estimates for use in planning your project.



Diamond Concrete Grade Crossing on Shortline Railroad

Century Group can also assist our clients with developing a scope of work and specifications for the custom concrete grade crossing panels in your turnout, double crossover or other unique track structure. Having very distinct and specific specifications are crucial to making sure that you receive the highest quality custom concrete grade crossing for your project. The location, spacing, type and length of crosstie required are critical to insure proper placement and support of the custom concrete grade crossing panels.

Custom Concrete Railroad Crossing In Turnout – Port Facility

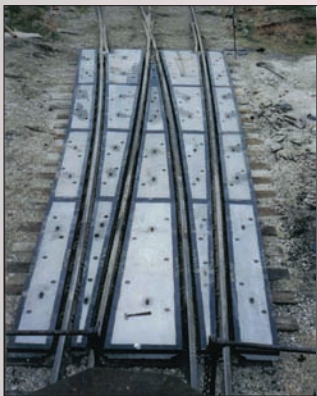


On-Site Technical Service

Once the project is awarded to a contractor, Century Group's technical team begins coordination with the owner/contractor to measure and manufacture custom concrete grade crossings for the project. The custom concrete grade crossing project normally starts with scheduling a project site visit to take as-built field measurements of the turnout, diamond or non-conventional track structure. Century Group personnel will assist the contractor in insuring that the correct type, length and tie spacing is used to construct the custom track around a switch, frog, diamond or other non-conventional track structure. When the as-built field measurements are taken by Century Group personnel then we can provide submittal drawings, sketches and other required information. It is important that all parties involved with the project know that Century Group will need two to three days of access to the track structure whether its built offsite, adjacent to the track or in place to take as-built field measurements.



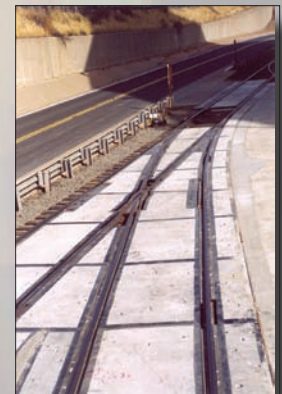
Century Group Field Measurements Diamond Crossing



As-built field measurements for concrete crossing panels in a switch, around a frog, etc... are necessary to insure that the concrete crossing panels will fit properly over and around the many components in a turnout, a third rail, girder rails or other unique track structure. Our experienced staff will insure that panels will fit over slide plates, switch rods, hook plates, frog bolts, guard rails and other track components.

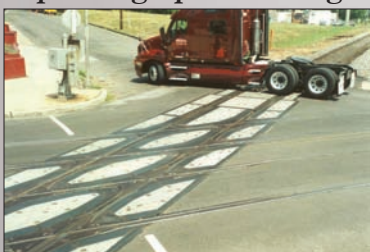
Custom Turnout Concrete Crossing at Military Facility

As mentioned above, one of the most critical issues when manufacturing and installing concrete grade crossing panels in a turnout, diamond or other specialized track is the length, spacing and type of crosstie to be used. Century crossing panels are manufactured in 9' lengths which require 18" tie centers in tangent areas and different tie spacing based on the degree of curve. Owners and contractors should be aware that tie lengths should be increased to allow for sufficient crosstie surface on the field side of the rail to install a grade crossing panel with a minimum width of 20 inches. Providing adequate amount of crosstie on the field side of the rail to allow for suitable bearing surface for a concrete field panel to rest is vital to its performance and service life.



Colorado Industry Turnout Project

From the time as-built measurements are taken, the normal production time for a custom concrete railroad grade crossing to be cast, cured and shipped is approximately 6 to 8 weeks depending upon the length and complexity of the grade crossing. Once the concrete crossing is manufactured and delivered to the jobsite, Century Group Inc. will provide a field representative to monitor installation of the crossing panels. A three week notice is required to insure the Century Group can schedule to have a field representative onsite for the crossing installation.



Double Diamond Crossover Commuter Rail/Class I

Quality & Experience

With over 60 years of experience in the precast concrete manufacturing industry, Century Group Inc.'s experience and expertise far exceeds any of the competition. Century Group owns its own steel fabrication facilities that designs and delivers all structural steel angle surrounds, reinforcement and any other structural steel components which are very prevalent in custom concrete grade crossings for turnouts, diamonds, etc... Century Group's welders are AWS (American Welding Society) certified and follow all guidelines of the AWS. Century Group also manufactures all of its molds for casting custom grade crossing panels.



Because most every panel in a turnout or diamond crossing is unique, our fabrication staff's extensive experience and expertise allows us to modify and customize the molds each day in order to cast panels to the exact measurements required to fit around various track components. This unique expertise and ability allows Century Group to manufacture custom crossing panels as fast and efficient as possible.

***Diamond Concrete Crossing
Port Project***

Century Group also batches all of its own concrete which allows us to produce quality concrete grade crossing panels second to none.

***Turnout Concrete Crossing
Container Port***



All of our plant foremen and managers are ACI certified by the NPCA (National Precast Concrete Association) which has a vigorous certification program that insures only the highest quality precast concrete products are manufactured.

Diamond Concrete Grade Crossing

Excellence

Our project teams are ready to assist you with your custom railroad grade crossing project from start to finish. If your next project requires a concrete grade crossing in a turnout, diamond crossover or other complex railroad track structure, then allow Century Group to assist your project design/development team. Budgetary estimates, written specifications and drawings are a part of the value-added services that our company offers. Manufacturing concrete grade crossings for turnouts and diamonds are complex and demanding but our team is up to the task. Email the Century Group Railroad Products Division or call 1-800-527-5232, Ext. 118 for more information. We continue to set the standard for excellence in the concrete railroad grade crossing industry.



***Turnout Concrete Crossing
International Ports***