

Turnstone Plassman Athletic Center



LOCATION

Ft. Wayne, Indiana

SIZE

125,000 sq. ft.

FRAMING SYSTEM

Nucor TrussFrame

WALL SYSTEM

Nucor Reverse Classic Wall™ Panel

ROOF SYSTEM

Nucor CFR™ Standing Seam Roof

Turnstone of Fort Wayne, Indiana, is an organization deeply dedicated to the health of children and adults with disabilities, with a mission of empowering people with physical disabilities to reach for their full potential in every aspect of life. With the growing interest in adaptive sports, their existing 65,000 sf facility was in need of an expansion to accommodate the 2,200 people they currently serve, with hopes to offer more activities for children, adults, and sports teams within the community and beyond.

Their new 125,000 sf wellness center and multisport complex features Nucor TrussFrame, a hybrid open web rafter system, which combines the stability of a rigid frame with the versatility and architectural aesthetic of open web trusses. Allowing for spans in excess of 300 feet, Nucor TrussFrame is an extremely efficient and economical system, ideal for large clear span building applications. Its open web configuration allows for mechanical, lighting, and wiring systems to be incorporated between the trusses, allowing the building eave height to be reduced, saving construction time and material costs.

The main structure is a 75,600 sf gable symmetrical clear span at 200' wide with 83" deep TrussFrames. It contains a new field house, which includes a 200 meter track along with four



regulation wheelchair basketball courts with digital scoreboards, and two massive divider curtains. Three attached single slope, clear span buildings house the group exercise rooms for adaptive fitness classes.

THE POWER OF BIM 3D MODELING

The powerful value of BIM 3D Building Information Modeling was used at the design phase of this project. A revolution in the construction industry, BIM 3D Modeling was able to provide a detailed, three-dimensional conceptual replica of the building, allowing the customer to see their project as it will be when constructed in the field. BIM also offers the option of viewing the HVAC, mechanical, electrical and plumbing systems that make up the building.

With Turnstone being one of the largest U.S. Paralympic sport clubs in the United States, this massive expansion could put them in better position in their application for a National Paralympic Training Site designation by the U.S. Olympic Committee.

