

Richland Co Tennis Court Layout (Original Design)

Storm Sewer / Civil Related

- The layout was coordinated to minimize impacts to detention sizing, storm piping, inlet structures, and drainage routing.
- The design team evaluated the site holistically, balancing civil engineering constraints, parking efficiency, circulation, utility routing, and facility relationships, not simply court orientation alone.
- The east-west orientation was selected primarily to optimize overall site grading and stormwater conveyance across the athletic complex while maintaining compliance with stringent stormwater management requirements.
- The site has limited developable area due to detention, drainage, and water quality requirements, making overall hydraulic performance a governing design criterion rather than a standalone sport-orientation preference.

Site Ergonomics

- The layout was coordinated with the nearby concessions/athletic support building to improve pedestrian flow, accessibility, parking lots, and event circulation between the courts and the rest of the complex. The configuration created efficient spectator and athlete access from the adjacent building and parking areas.
- The orientation allowed for two functional parking lots serving the tennis complex and surrounding facilities. Parking counts were an important consideration given the number of overlapping athletic events anticipated across football, baseball, softball, and tennis.
- The orientation was developed in conjunction with the overall athletic complex drainage strategy, including football, baseball, softball, parking, sidewalks, and spectator circulation.
- The current orientation improves constructability sequencing by maintaining efficient access routes for grading, paving, fencing, lighting, and surfacing contractors.
- The east-west orientation helped maximize spacing efficiency between facilities while maintaining ADA circulation and emergency access requirements.

- Due to the strict stormwater requirements, site drainage efficiency became a primary driver in determining facility orientation and layout. With some added infrastructure, we **can** facilitate the proposed orientation without sacrificing any storm sewer performance.

Final Result

10 less parking spaces

2 parking lots consolidated into 1.

1 less entry structure

North/South tennis courts