THOMAS SHAY, PE

SENIOR TECHNICAL LEADER, SPORTS, PARKS & RECREATION

Education

- MBA, Strategic Management, Pace University-New York
- Bachelors, Geomechanics, University of Rochester

Registrations

- NCEES Record - National, 61656
- Professional Engineer - NC, 042743
- Professional Engineer - NY, 092476

Professional Associations

- American Sports Builders Association (ASBA)
- Synthetic Turf Council (STC), Board Member
- National Recreation and Park Association (NRPA)

Professional Profile

Tom is a Senior Technical Leader with 19 years of experience focusing on site redevelopment for the full project lifecycle including planning, permitting, design, construction administration, and operations. Tom has contributed to a wide range of multi-objective civil and environmental engineering projects, developing expertise in the design of municipal and institutional sports, parks, and recreation facilities, natural and synthetic turf athletic fields, running tracks, sport courts, and supporting infrastructure and amenities.

Related Experience

University of Massachusetts Amherst, MA – Athletics Facilities and Campus Infrastructure. Technical Manager for numerous planning studies, design, and construction projects for UMass Athletics and Campus Recreation Departments including natural grass and synthetic turf fields at McGuirk Football Stadium, Garber Field (Lacrosse), Gladchuk Field (Field Hockey), Sortino Field (Softball), Lorden Field (Baseball), Rudd Field (Soccer), Track and Field facilities, and Boyden Fields.

Town of Scarborough, ME – Mitchell Sports Complex. Technical Manager for the planning, design and construction administration for the multi-sport synthetic turf field and running track reconstruction project.

Town of Winthrop, MA - Winthrop High School Miller Field Athletic Facility Improvements. Senior project engineer responsible for leading the feasibility study and the engineering design for athletic facility improvements at Miller Field which included redevelopment of the existing athletic field and running track, field events, seating for over 1,000 spectators with a press box and lift, lighting systems, concession/restroom structure, scoreboard, walkways, landscaping, and other site amenities. The design addressed complex issues including a highly-constrained site, compressible soils, high groundwater, location within the 100-year floodplain, challenging hydraulic and hydrologic conditions, and significant regulatory permitting. The design of the athletic facility was coordinated with the design for other local infrastructure improvements being designed simultaneously by Woodard & Curran to improve drainage conditions at the Winthrop Golf Club, directly adjacent to Miller Field.

City of Quincy, MA – North Quincy High School Campus Improvements, Planning and Design. Project engineer leading the comprehensive planning and design for the campus improvements that included new utility and infrastructure improvements, flood mitigation, wetland resource areas, parking, and athletic facility improvements for the North Quincy High School campus.

Westchester County Parks Department, NY – Hutchinson River Parkway Trail Improvements. Project engineer assisting the County with planning and design for a non-vehicular transportation (including equestrian) trail rehabilitation and drainage improvements along the Hutchinson River Parkway trail system, part of the Colonial Greenway.

Los Angeles County Public Works, CA –Inglewood, CA – Edward Vincent Jr. Park Stormwater Improvements. Technical Advisor for a regional watershed scale multi-benefit stormwater capture project at a park with active and passive recreation components requiring coordination with proposed water quality and ground water recharge engineering solutions, review of alternatives, and project sequencing.

New York City Department of Parks and Recreation (NYCDPR), NY – Engineering Services to Support Citywide Parks Improvement Program. Technical Manager providing quality control review associated with analyzing existing conditions at 11 parks in assisting NYCDPR to serve as the design basis for future implementation of capital improvements incorporating Green Infrastructure practices.

New York City Department of Parks and Recreation (NYCDPR), Ferry Point Park, Bronx, NY – Independent Environmental Monitor (IEM). Woodard & Curran was the IEM for the 220-acre golf course construction project located at the base of the Whitestone Bridge in the Bronx borough of New York City. The golf course was constructed over an existing municipal waste landfill. Served as an assistant IEM responsible for enforcing and completing IEM responsibilities associated with the NYSDEC Part 360 Permit which included fill source site reviews for environmental and permit compliance, biweekly and quarterly reporting to the NYSDEC on construction activities, and assisting IEM site personnel with permit related activities such as monitoring import of fill and cover materials.

Husson University, Bangor, ME – Winkin Complex Planning and Design. Technical Manager responsible for leading the feasibility study, planning, design, and construction support for the Winkin Complex synthetic turf field replacement.

Long Island University, Brookville, NY – Planning and Design Services for Athletic Facilities. Technical Manager for the master planning, permitting, design and construction administration for various NCAA Division I level athletic facility upgrades at Long Island University.

Westchester County, City of Mount Vernon, NY – Memorial Field Complex Stadium Redevelopment. Technical Manager for the permitting, design, and construction administration for a new municipal professional level rugby and soccer stadium redevelopment at Memorial Field in the City of Mount Vernon. The project included a synthetic turf field, running track, tennis courts, spectator seating for 3,900, videoboard, athletic lighting, and supporting amenities.

Larchmont, NY – Flint Park Improvements Planning and Design. Technical Manager for the planning, design, contractor procurement, and construction administration for various park improvements including playground replacement, tennis center building renovation, tennis courts, synthetic turf field expansion and replacement, natural grass athletic field rehabilitation, basketball courts replacement and supporting utility and site improvements.

RSU #26, Orono, ME – Athletic Complex Master Plan. Project Engineer providing technical oversight and review for a campus-wide master plan to create a safer, more athlete- and spectator-friendly, and more energy efficient school athletic complex.

Johnson & Wales University, Providence, RI – Multi-Purpose Athletic Facility. Project engineer for athletic facility master planning and design services for an athletics complex on JWU's Harborside Campus in Providence. The project included a multi-sport synthetic turf field and future running track; natural grass baseball, softball and soccer fields; extensive walkways, and associated amenities.

City of Stamford, Stamford, CT – Westhill High School, West Beach Park, and Lione Park. Project engineer on the Design/Build project including two phases of design and construction for the redevelopment of multi-purpose synthetic turf fields for sports including football, baseball, soccer, and cricket at two City parks and one public high school.

New York State Office of General Services (NYSOGS), Camp Smith Training Site, Cortlandt Manor, NY – Numerous Sitewide Upgrades. Project engineer providing planning, design and project management for numerous projects at the NY Army National Guard's Camp Smith Training Site for specialty equipment storage and armory facility, firing range realignment and containment baffles, roadway and stormwater improvements, and building demolition projects.