CATEGORY:

GENERAL DESIGN

PROJECT:

VIKING LAKES TCO PERFORMANCE CENTER EAGAN, MN

ABSTRACT

As one of Thirty Two teams that play in the National Football League, the Minnesota Vikings wanted to create a world class facility that would put their organization under one roof, attract and retain top talent and provide an asset to the community and their fan base. The result was a grand vision that transformed an old corporate headquarters, abandoned and overgrown with invasive species, into the 200 acre Viking Lakes community development and the Twin Cities Orthopedics Performance Center (TCO). The role of the Landscape Architecture team was critical in developing this grander vision – leading site master planning, creating overall development guidelines and regulations, introducing sustainability and ecological restoration, and emphasizing the importance of a unified public realm through landscape, circulation, programming and branding.

NARRATIVE

Viking Lakes and the Twin Cities Orthopedics Performance Center, in Eagan, Minnesota is a 200-acre master planned community that is home to the Minnesota Vikings corporate headquarters and training facilities. The development transformed an overgrown, abandoned corporate headquarters that was filled with invasive plants, debris, and wetlands that served as runoff settlement ponds for the freeway. What started as a small single use facility blossomed into a multi use community for medical rehabilitation, sports training, stem incubation, multifamily residential, hospitality, retail, and corporate offices transforming this site into a place to work live and play.

The Landscape Architect was brought in early in the process to work with a multidisciplinary team of architects, engineers, owners, and other key stakeholders. The led and developed multiple concepts that built upon the initial program - introducing ideas of sustainability, circulation and the importance of the public realm serving as a catalyst to bring together a cohesive development. The Landscape Architect redeveloped the original concepts by rerouting the initial roadway to protect the existing wetlands and native vegetation stands and provides opportunities for future connections and interrelationships in the development. The Landscape Architect was also responsible for the development of site development guidelines required by the city to maintain an overall vision for future development in the coming years. These regulatory controls and design standards included all aspects of the development such as zoning, phasing, land use, architectural style and character, circulation, site furnishings, ecology and sustainability, wayfinding and signage, lighting, tree mitigation, and wetland rehabilitation.

The Landscape Architect developed an extensive Tree inventory assessment and mitigation documentation. Utilizing GIS mapping and surveying to record and preserve existing quality vegetation, remove invasive species and restore and reintroduce healthy native habitats. As part of this process, 1,200 trees native to regional habitats are currently being reintroduced over the next five years. The Landscape Architect working with ecologists and water quality specialist also conducted analysis of the existing site wetlands to remove invasive species and improve water quality diminished by buried debris and freeway runoff as part of the ongoing site rehabilitation. The initiatives are transforming algae covered ponds and reestablishing shoreline habitat, reintroducing healthy aquatic vegetation and fish species, building prefiltration basins to treat new site and incoming stormwater and the introduction of pond aeration through nano bubble technology to eliminate the dead zone and create a healthy pond environment. The Landscape Architect applied the overarching themes defined by the owner - *Innovative*, *Unifying*, and *Relentless*, to the landscape and site design. The Landscape Architect reintroduced native vegetation to the site utilizing native biomes of the region to define all areas of the site with plant material suited for those conditions and uses. The native planting also helped to break up and divide the larger plaza spaces needed for flexibility in public gathering and organization of the circulation patterns and access throughout the development. Extreme changes in elevation required innovative thinking in providing ADA accessibility intertwining pedestrian ramps with planted areas to minimize hardscape and define various areas of activity and programming on multiple levels. These same dramatic changes in elevation also proved useful to separate both private and public spaces for programming daily, weekend and major events on site. Flexibility was the key with multiple points of control and access throu

In addition to developing four outdoor grass practice fields (two of which are heated) and one 6,000 seat outdoor stadium with synthetic turf, the landscape architect introduced enhanced and specialized training facilities - working closely with coaching and training staff to provide progressive and innovative training techniques. Some of the features include outdoor training facility for football position training, utilization of the emergency and vehicular service access as a sprinting track, and a training hill for specialized sprinting, jumping, step, wall and sand training

techniques. The public realm is a nod to the Scandinavian heritage of the region. The overall look is modern Nordic, with simplicity, minimalism and functionality at the core. Additionally, the team's brand is a unifying element that is incorporated into every facet of the development - the architecture and site which is visible in the materials, landscape, signage and wayfinding, lighting, and furnishings.

CONCLUSION

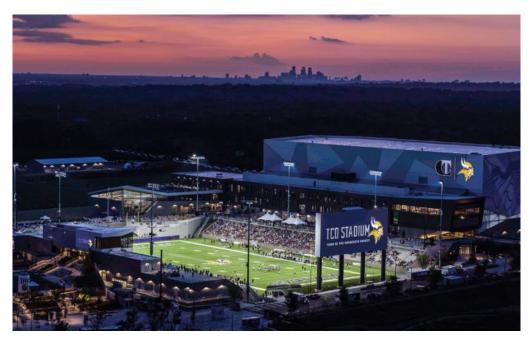
This project demonstrates the range and abilities a Landscape Architect can play in leading and shaping a development from the ground up rooted in sustainability, ecology and the importance of the public realm as a unifying element. The Landscape Architect transformed the vision for Viking Lakes and the TCO Performance Center through thoughtful master planning, calculated and planned restoration and meaningful design. The Landscape Architect's early involvement was critical in the development's implementation and is engaged with new phases of the master plan in design and under construction.

TCO PERFORMANCE CENTER

THE TWIN CITIES OTHOPEDICS PERFORMANCE CENTER IS A STATE OF THE ART CORPORATE FACILITY IN THE HEART OF A LARGER MASTER PLANNED DEVELOPMENT THAT TRANSFORMED AN ECOLOGICALLY BROKEN SITE, ESTABLISHED A SENSE OF COMMUNITY AND USED THE PUBLIC REALM TO UNIFY AND LINK THE CURRENT AND FUTURE USE.









DEVELOPMENT - DESIGN GUIDELINES

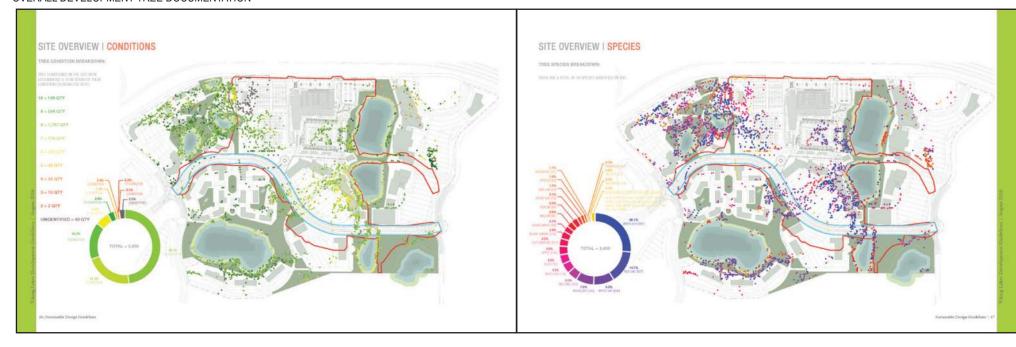
OVERALL DEVELOPMENT GUIDELINES WERE LEAD BY THE LANDSCAPE ARCHITECT TO ESTABLISH STANDARDS OF DEVELOPMENT AND ULTIMATELY INFORM THE SITE DEVELOPMENT, CIRCULATION, ARCHITECURE, PUBLIC REALM, ECOLOGY AND SUSTAINABILITY GUIDELINES FOR CURRENT AND FUTURE PHASES.



TREE MITIGATION

THE LANDSCAPE ARCHITECTURE TEAM, DEVELOPED AN EXTENSIVE TREE MITIGATION PROCESS TO RECORD VALUED AND INVASIVES SPECIES AND DEVELOP A STRATEGY FOR REMOVAL AND REFORESTING INCLUDING PLANTING OVER 2,000 NATIVE TREE SPECIES IN THE NEXT FIVE YEARS.

OVERALL DEVELOPMENT TREE DOCUMENTATION

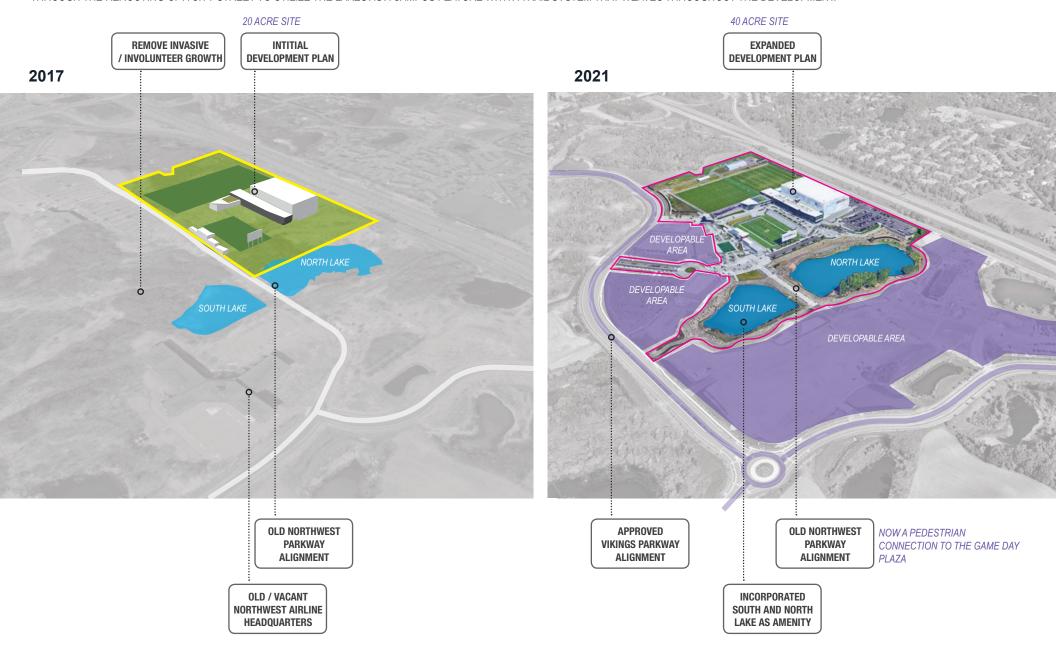


PHASE 1 - TCO PERFORMANCE CENTER TREE MITIGATION



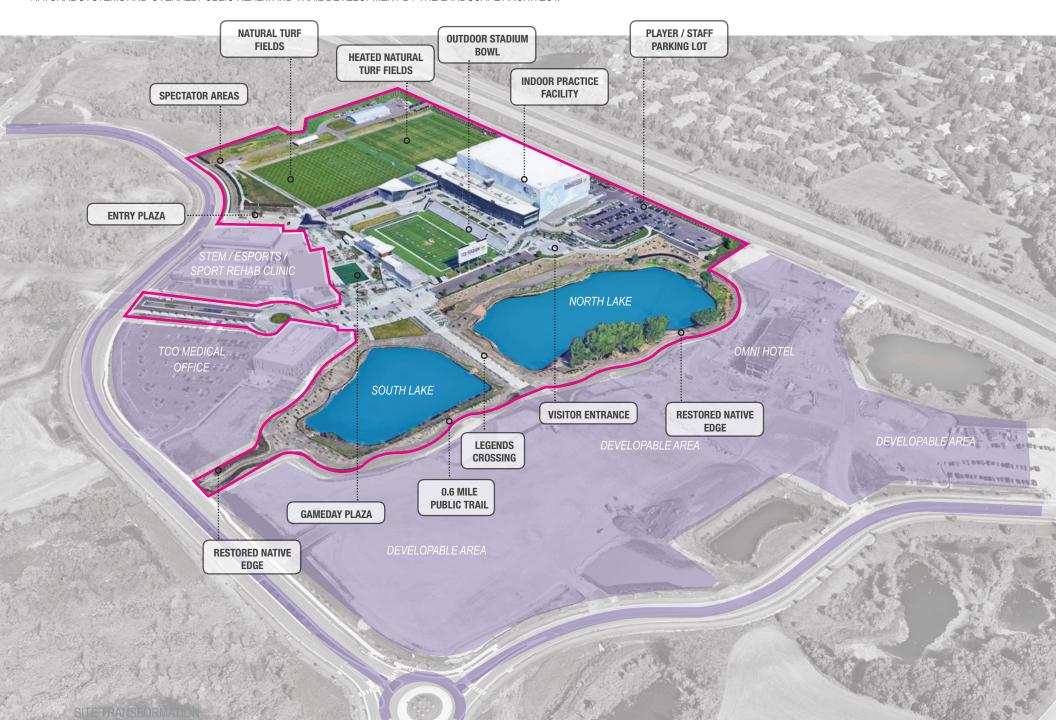
SITE MASTER PLANNING

THE LANDSCAPE ARCHITECT PLAYED A CRITICAL ROLE IN THE INTIAL PLANNING FOR THE TCO PERFORMANCE CENTER BY ENVISIONING A LARGER CAMPUS ENVIRONMENT THROUGH THE REROUTING OF A CITY STREET TO UTILIZE THE LAKES AS A CAMPUS FEATURE WITH A TRAIL SYSTEM THAT WEAVES THROUGHOUT THE DEVELOPMENT.



TCO PERFORMANCE CENTER DEVELOPMENT

THE OVERALL SITE DEVELOPMENT OF THE TCO PERFORMANCE CENTER PROVIDES MANY FUTURE GROWTH OPPORTUNITIES THAT FOCUS ON THE REHABILITATED NATURAL SYSTEMS AND OVERALL PUBLIC REALM AND TRAIL DEVELOPMENT BY THE LANDSCAPE ARCHITECT.



GUIDING PRINCIPLES

THE LANDSCAPE ARCHITECT DEVELOPED THE SITE RELATING TO THE THREE OVERARCHING PRINCIPLES DEVELOPED BY THE CLIENT FOR THE ENTIRE DEVELOPMENT. THE ORGANIZATION AND ITS RECOGNIZABLE BRANDING.

UNIFYING

- NATIVE LANDSCAPE THROUGHOUT THE SITE
- COMMUNITY PROGRAMMING AND EVENTS
- CIRCULATION AND ACCESS













INNOVATIVE

- ONE OF A KIND TRAINING FACILITES AND SITE AMENITES
- ADA ACCESS AND CIRCULATION THROUGHOUT EXTENSIVE SITE GRADE CHANGE
- SITE REHABILITATION AND SUSTAINABILITY

RELENTLESS

- UNIQUE SCANDINAVIAN SITE CHARACTER
- TOUGH AND HARDY MATERIALS THAT ARE LOCALLY SOURCED
- FLEXIBILITY TO HANDLE A VARIETY OF USES THROUGH ALL SEASONS

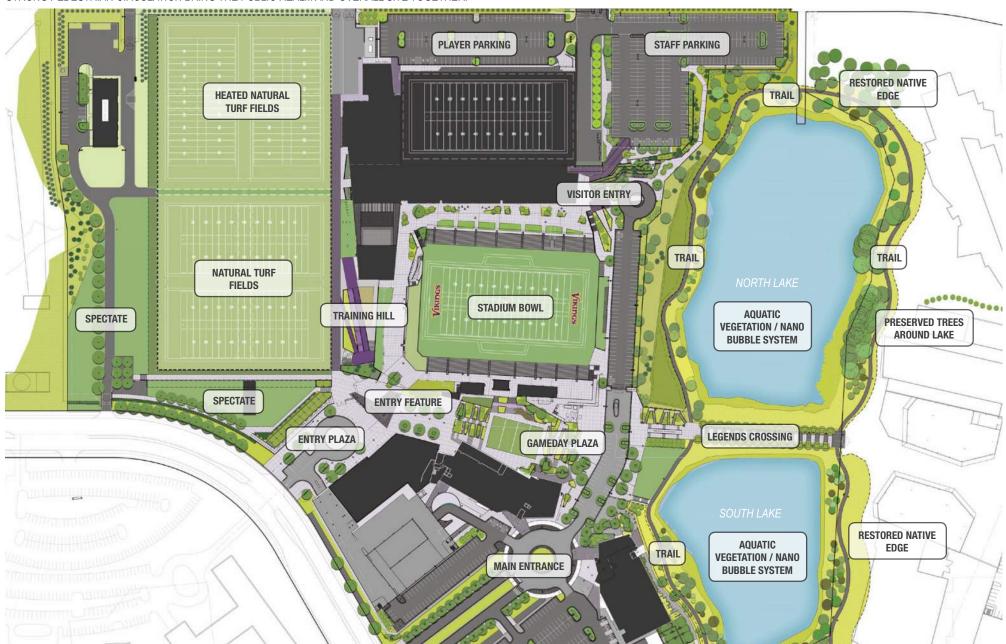






VIKING LAKES TCO PERFORMANCE CENTER

THE DESIGN OF THE SITE FUNCTIONS FOR BOTH PRIVATE AND PUBLIC EVENTS, AS WELL AS A PUBLIC REALM THAT SERVES THE DEVELOPMENT DAILY. THEMED MATERIALS, REGIONAL PLANTINGS STRONG PEDESTRIAN CIRCULATION BRING THE PUBLIC REALM AND OVERALL SITE TOGETHER.



OVERALL SITE CHARACTER

THROUGH THE USE OF MANY NATIVE SPECIES, THE DESIGN BRINGS UNITY THROUGH A COMMON PLANT PALLETE. THIS PLANT PALLETE IS THEMED THROUGHOUT THE SITE WITHIN FIVE DIFFERENT REGIONAL BIOZONES THAT REPAIRED THE SITE ECOLOGY.













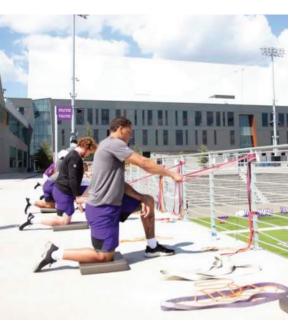
WORLD CLASS PERFORMANCE TRAINING

THE LANDSCAPE ARCHITECT COLLABORATED WITH NUMEROUS TRAINING STAFF TO CREATE AND OPTIMIZE INNOVATE TRAINING FEATURES. SOME OF THE KEY FEATURES INCLUDE A PLYOMETRIC TRAINING HILL, RESISTANCE SAND TRAINING PIT, HEATED NATURAL TURF FIELDS, INDOOR / OUTDOOR WEIGHT ROOM, BLOCKING / TACKLING STATIONS, AND AN OUTDOOR ARTIFICIAL TURF.













ORCHESTRATING A PROGRAM

THE LANDSCAPE ARCHITECTURE TEAM LED THE PROGRAM AND PROVIDED THE CLIENT AND COMMUNITY WITH THE ABILITY TO ENGAGE WITH THE DEVELOPMENT IN A VARIETY OF WAYS AND STYLES OF EVENTS THAT PROVIDED NECESSARY PRIVACY FOR THE TEAM AND THEIR OVERALL OPERATIONS.

PUBLIC REALM (DAILY EXPERIENCE)

ACCESSIBLE SITE, WALKING AND RUNNING THE PEDESTRIAN TRAIL SYSTEM, ATHLETE AND GENERAL PUBLIC TRAINING AND REHAB, LUNCH AND MEETINGS, RETAIL AND SHOPPING, HOSPITALLITY AND CORPORATE OPPERATIONS



COMMUNITY EVENT PROGRAM (OCCASIONAL EXPERIENCE)

YOUTH CAMPS, FRIDAY NIGHT LIGHTS, REGIONAL HIGH SCHOOL AND COMMUNITY SPORTING EVENTS, BROADCAST AND MEDIA TRAINING, BUSINESS CONFERENCES, FAIRS AND TRADE SHOWS



EVENT PROGRAM (ANNUAL EXPERIENCE)

NFL TRAINING CAMP, CONCERTS, NFL EXPERIENCÉ, PLAY 60 PROGRAM, 5K RUN



UNIFYING PUBLIC REALM

THE PLAZAS AND THE LANDSCAPE UNIFIES THE CAMPUS AND SUPPORTS THE FUTURE GROWTH OF THE OVERALL DEVELOPMENT. THIS FLEXIBLE OPEN SPACE HAS BECOME A HUB FOR HIGHSCHOOL / COLLEGE SPORTS REHABILITATION, SMALL COMMUNITY EVENTS, PLAYER / FAN ENGAGEMENTS, AND IS CONNECTED BY A HALF MILE TRAIL SYSTEM.











EVENT PROGRAMMING

THROUGH STRATEGIC PROGRAMMING AND SPATIAL DESIGN, THE CAMPUS PROVIDES OPPORTUNITIES FOR GATHERING AND OFFERING IT'S SPACE TO THE PUBLIC FOR COMMUNITY EVENTS SUCH AS 5K RUN EVENTS, HIGH SCHOOL SPORTS, CONCERTS, MOVIE NIGHTS AND MEDIA AND BROADCAST TRAINING.

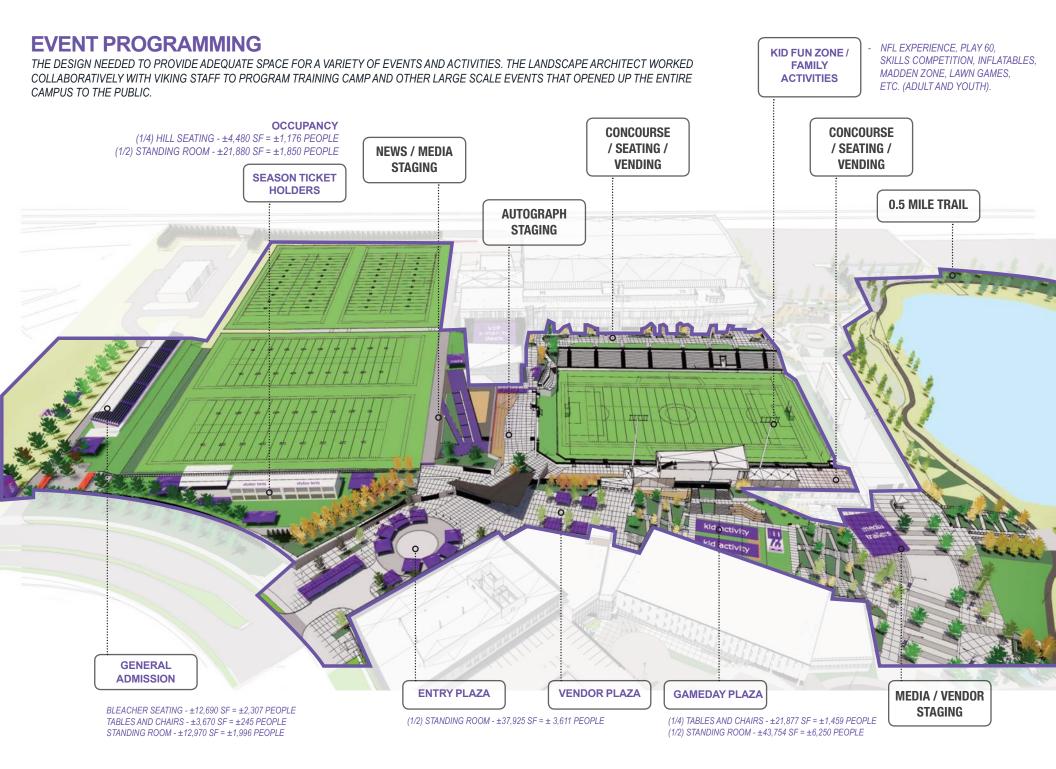












EVENT PROGRAMMING

THESE LARGE EVENTS OPEN THE CAMPUS TO THE COMMUNITY AND PROVIDE A PLACE OF COMING TOGETHER TO SHARE A COMMON INTEREST.













