

MSU Indoor Practice Facility Preliminary Project Information

Project Summary

The Indoor Practice Facility project at Montana State University in Bozeman, MT is a new “ground up” athletic facility located immediately southwest of the existing Bobcat Stadium, and north of existing irrigation pond facility. The site is on an existing parking lot and landscaping yard. The primary structure will be a pre-engineered, metal framed, tensioned fabric exterior building, which houses a 100 yard (two 10 YD endzones with 80 YD striped field between) artificial turf football field. Attached to the metal building will be a stick-built support building that will include entry lobby, restrooms, changing areas, storage, and mechanical space.

The project also includes site improvements to the immediate surrounding site, including the landscape area around the building and a small parking area for the required ADA parking. A fire lane may need to be required along the south elevation. The rest of the parking will be part of another project adjacent to the main stadium, not in this scope but will have to be coordinated with other engineering firms.

Construction is targeted to begin in 2024.

Project Type: New Construction

Funding Type: Donated funds through Alumni foundation

Decision-Making: Building Owner, Owner’s Representative (MSU PDC), and Architect

Project Intent: Collegiate, durable, maintainable

Delivery Method: GC/CM

Building Program:

Indoor turf field area

Support building with entry lobby, restrooms, changing rooms, athletics storage, and mechanical. See below for more information.

Code Summary:

Construction type:

2B on the metal framed tensioned fabric structure

5B on the support building attached

Occupancy type: A-3

1 story above grade

Utilities:

City water and sewer
NWE power and natural gas
Coordination to tie into campus utility network needed.
Back-up power: TBD

Authorities Having Jurisdiction:

City of Bozeman, Building
City of Bozeman, Planning – Not Applicable, MSU Land
Northwestern Energy
Board of Regents (November 2023 Construction Authority)

Preliminary Scope

Phasing

None at this time

General Requirements

- Construction type 2B on main turf building, Type 5B on support building.
- Non-combustible sheathing and building materials where required
- Main building:
 - R25 + R11LS roof insulation, R13 + R12.5 continuous insulation at exterior walls. R16.7 at floor.
- Support Building:
 - R30 ci above deck roof insulation. R-13 +R-7.5ci or R-20 +R-3.8ci wall insulation. R16.7 at floor.
- Sprinklered and alarmed

Preliminary Program – Main Turf Building

- Pre-engineered metal framed structure with tensioned fabric siding.
- Approximately 66,000 SF conditioned space.
- Turf Area
 - 100-yard striped field, 80 yard striped with two 10-yard endzones.
 - 6' field perimeter boundary, field turf material
 - 9' run off area at end zones, 14' run off area at sidelines, field turf material
- Floor Finish
 - Synthetic turf (B.O.D. Field Turf Classic HD with shock pad) on grade
- Wall Finish:
 - Lower Walls (below 12') Metal panels, basis of design is Metal Sales, T10-D wall panel, standard color selection.
 - Upper walls (above 12') Interior fabric and insulation per the metal building manufacturer. Base/Trim Finish: N/A
- Ceiling Finish:
 - Interior fabric and insulation per the metal building manufacturer.

- Additional Interior Finish:
 - Wall padding at exposed structure up to 8'-0" A.F.F.
 - Basic electronic scoreboard (x1) and play clocks (x2), basis of design is Daktronics FB-2019 Football scoreboard, color blue.
 - Two NCAA regulation field goal posts, basis of design Sportsfield Specialties. Two field goals nets hung from ceiling.
- Ceiling hung light fixtures, rated for impact resistance, coordinated with metal building manufacturer.
- Provide athletic specialty lighting to achieve 55 footcandles at indoor turf and indoor track. Basis of design Musco lighting.

Preliminary Program – Support Building

- Typical construction framed building with brick veneer siding.
 - Approximately 3,300 SF
 - Brick veneer siding, product TBD
 - Parapet with Metal parapet cap
 - TPO membrane roof over sloping insulation to roof drains.
 - Storefront windows
- Entry Lobby
 - Approx. 500SF
 - Might include a small reception desk area
 - Storefront vestibule entry with WOM.
 - Floor Finish: Polished concrete (70%) & integrated walk-off mat (30%)
 - Wall Finish: Painted GWB typical. 50% Feature Wall area at lobby, as Vertical T&G wood siding, 4" planks, white pickled finish.
 - Base/Trim Finish: Metal base.
 - Ceiling Finish: Wood ceiling system, T&G wood ceiling, 4" planks, white pickled finish
 - 4" can light fixtures
- Restrooms
 - Approx. 200SF each, x2
 - Men's and Women's
 - Fully code compliant
 - Number of fixtures TBD upon code study
 - Typical commercial toilets and lavatories that meet MSU requirements.
 - Floor Finish: Porcelain tile 12"x24" thru-body, epoxy grout
 - Wall Finish: Full-height Porcelain tile at wet walls, painted GWB elsewhere. Accent tile at lavatories above counter to ceiling.
 - Base/Trim Finish: Porcelain tile base
 - Ceiling Finish: high quality standard size 2'x2' ACT
 - Additional Interior Finish: Solid surface vanities with undermount sinks. Full width mirror above vanities.
 - Standard ACT grid light fixtures
- Changing rooms
 - Approx. 600SF each, x2
 - Men's and Women's



- Fully code compliant
- Benches with hooks above. Lockers are TBD but a possibility
- No wet areas, simple changing only
- Floor Finish: Porcelain tile 12"x24" thru-body, epoxy grout
- Wall Finish: painted gyp, FRP board for first 8'
- Base/Trim Finish: Porcelain tile base
- Ceiling Finish: high quality standard size 2'x2' ACT
- Standard ACT grid light fixtures
- Athletic Storage
 - Approx: 500 SF
 - Room with double doors for storage of athletic equipment
 - Floor Finish: Polished concrete
 - Wall Finish: Painted GWB typical. FRP board for first 8'
 - Base/Trim Finish: rubber base
 - Ceiling Finish: NA
 - Standard chain hung LED lights
- Mechanical Room
 - Approx. 700 SF
 - Coordinate room size with metal building manufacturer requirements
 - Water and electrical entry
 - Floor Finish: Polished concrete
 - Wall Finish: Painted GWB typical
 - Base/Trim Finish: rubber base
 - Ceiling Finish: NA
 - Standard chain hung LED lights
- General Building requirements
 - Sprinklered
 - No AC at this time
 - Forced air systems
 - Unknown if gas is needed at facility

PROPOSED INDOOR ATHLETICS FACILITY



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