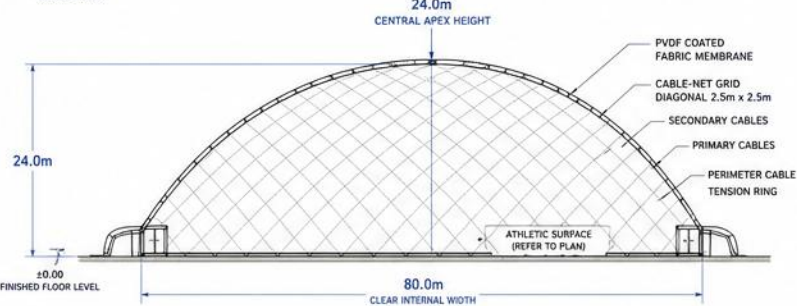


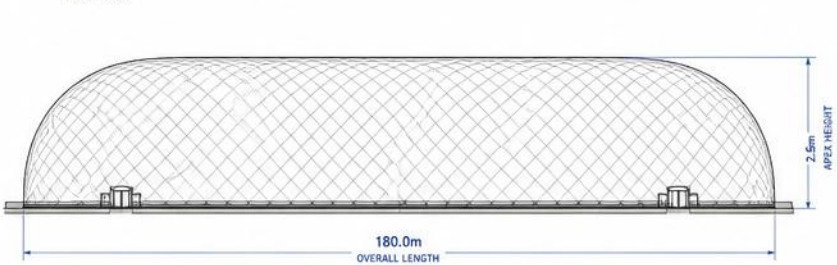
SPANBEST | OVERSIZED SUBMARINE OVERHAUL ENCLOSURE

RECTANGULAR PLAN · CONTINUOUS BARREL-VAULT · EXTERNAL CABLE NET

1 CROSS-SECTION (FRONT ELEVATION)
SCALE 1:250



2 LONGITUDINAL ELEVATION
SCALE 1:400

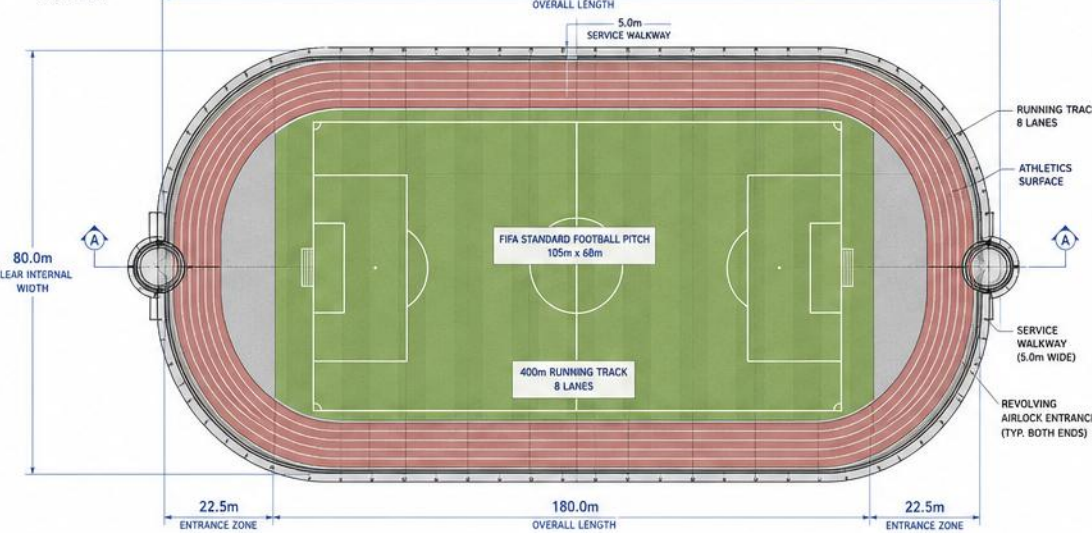


5 CABLE-NET GRID DETAIL
SCALE 1:50

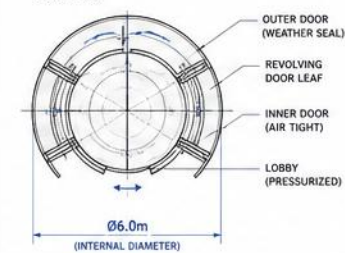


CABLE-NET SPECIFICATIONS	
GRID TYPE:	DIAGONAL (DIAMOND) PATTERN
GRID SPACING:	2.5m x 2.5m
PRIMARY CABLES:	Ø16mm GALVANIZED STEEL WIRE ROPE
SECONDARY CABLES:	Ø12mm GALVANIZED STEEL WIRE ROPE
TENSIONING:	PERIMETER TENSION RING WITH TURNBUCKLES
CORROSION PROTECTION:	HOT-DIP GALVANIZED

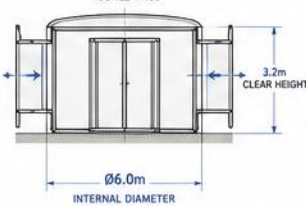
3 FLOOR PLAN
SCALE 1:400



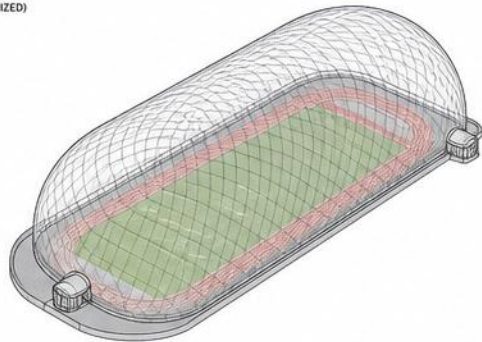
4 REVOLVING AIRLOCK ENTRANCE DETAIL
SCALE 1:100



SECTION A-A
SCALE 1:100



6 3D AXONOMETRIC VIEW
SCALE N.T.S.



DESIGN PARAMETERS	
STRUCTURE TYPE:	AIR-SUPPORTED PNEUMATIC DOME
PLAN DIMENSIONS:	80.0m (W) x 180.0m (L)
APEX HEIGHT:	24.0m
BUILDING AREA:	14,400 m ²
VOLUME (EST.):	~192,000 m ³
DESIGN PRESSURE:	+/- 600 Pa
WIND SPEED (BASIC):	40.0 m/s (144 km/h)
SNOW LOAD:	0.75 kN/m ²
SEISMIC ZONE:	NOT APPLICABLE (AIR SUPPORTED STRUCTURE)
OCCUPANCY:	SPORTS & ATHLETIC USE
DESIGN LIFE:	20+ YEARS

STRUCTURAL SYSTEM	
•	PVDF COATED FABRIC MEMBRANE
•	DIAGONAL CABLE-NET (2.5m x 2.5m)
•	PERIMETER TENSION RING SYSTEM
•	INTERNAL PRESSURIZATION
•	CABLES: GALVANIZED STEEL
•	ANCHORAGE: CONCRETE FOUNDATION RING

AIR SYSTEM	
•	AIR SUPPLY UNITS: 4 (N+1 STANDBY)
•	AIR PRESSURE: 550 – 650 Pa
•	AIR CHANGE RATE: 1.0 – 1.5 ACH
•	FILTRATION: G4 PRE-FILTER
•	HEATING (OPTIONAL): HOT AIR RECIRCULATION UNITS
•	CONTROL SYSTEM: AUTOMATIC PRESSURE & TEMPERATURE CONTROL

NOTES	
1.	ALL DIMENSIONS ARE IN METERS.
2.	DO NOT SCALE FROM DRAWINGS.
3.	ALL STRUCTURAL CABLES SHALL BE TENSIONED AS PER MANUFACTURER'S RECOMMENDATIONS.
4.	MEMBRANE FABRIC: PVDF COATED POLYESTER, 100% OPAQUE.
5.	FOUNDATION AND ANCHORAGE DESIGN BY OTHERS.

80m x 180m PNEUMATIC AIR DOME SPORTS & ATHLETIC COMPLEX			
PROJECT NO.:	AD-80180	DRAWING NO.:	AD-80180-A1
DATE:	MAY 2025	SCALE:	AS SHOWN
DRAWN BY:	ENG. CAD	CHECKED BY:	STRUCT. ENG.
SHEET SIZE:	A1 (841 x 594)		
		REV.:	A
			SHEET: 1 OF 1

DRY DOCK / HULL / CRANE CLEARANCES: TBD

CONCEPT SELECTION DRAWING ONLY. FINAL SPAN, LENGTH, HEIGHT, DOORS, LOADS, FOUNDATIONS AND PRESSURE SYSTEM REQUIRE PROJECT-SPECIFIC ENGINEERING.