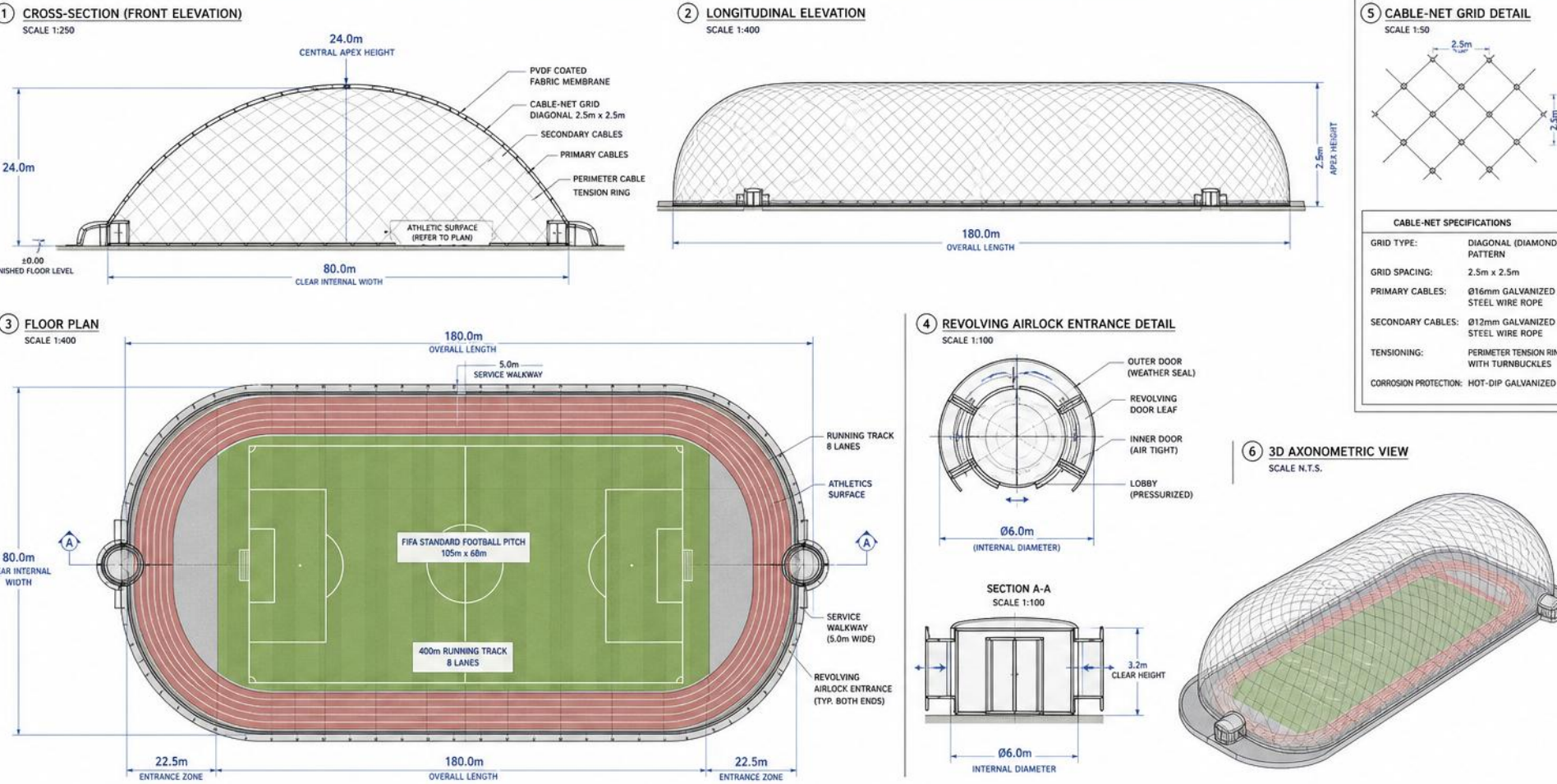




<div>DESIGN PARAMETERS</div> <div>STRUCTURE TYPE: AIR-SUPPORTED PNEUMATIC DOME</div> <div>PLAN DIMENSIONS: 80.0m (W) x 180.0m (L)</div> <div>APEX HEIGHT: 24.0m</div> <div>BUILDING AREA: 14,400 m²</div> <div>VOLUME (EST.): ~192,000 m³</div> <div>DESIGN PRESSURE: +/- 600 Pa</div> <div>WIND SPEED (BASIC): 40.0 m/s (144 km/h)</div> <div>SNOW LOAD: 0.75 kN/m²</div> <div>SEISMIC ZONE: NOT APPLICABLE (AIR SUPPORTED STRUCTURE)</div> <div>OCCUPANCY: SPORTS & ATHLETIC USE</div> <div>DESIGN LIFE: 20+ YEARS</div>		<div>STRUCTURAL SYSTEM</div> <div>• PVDF COATED FABRIC MEMBRANE</div> <div>• DIAGONAL CABLE-NET (2.5m x 2.5m)</div> <div>• PERIMETER TENSION RING SYSTEM</div> <div>• INTERNAL PRESSURIZATION</div> <div>• CABLES: GALVANIZED STEEL</div> <div>• ANCHORAGE: CONCRETE FOUNDATION RING</div>		<div>AIR SYSTEM</div> <div>• AIR SUPPLY UNITS: 4 (N+1 STANDBY)</div> <div>• AIR PRESSURE: 550 – 650 Pa</div> <div>• AIR CHANGE RATE: 1.0 – 1.5 ACH</div> <div>• FILTRATION: G4 PRE-FILTER</div> <div>• HEATING (OPTIONAL): HOT AIR RECIRCULATION UNITS</div> <div>• CONTROL SYSTEM: AUTOMATIC PRESSURE & TEMPERATURE CONTROL</div>		<div>NOTES</div> <div>1. ALL DIMENSIONS ARE IN METERS.</div> <div>2. DO NOT SCALE FROM DRAWINGS.</div> <div>3. ALL STRUCTURAL CABLES SHALL BE TENSIONED AS PER MANUFACTURER'S RECOMMENDATIONS.</div> <div>4. MEMBRANE FABRIC: PVDF COATED POLYESTER, 100% OPAQUE.</div> <div>5. FOUNDATION AND ANCHORAGE DESIGN BY OTHERS.</div>		<div>80m x 180m PNEUMATIC AIR DOME</div> <div>SPORTS & ATHLETIC COMPLEX</div>			
PROJECT NO.: AD-80180		DRAWING NO.: AD-80180-A1		REV.: A							
DATE: MAY 2025		SCALE: AS SHOWN									
DRAWN BY: ENG. CAD		CHECKED BY: STRUCT. ENG.				SHEET:					
SHEET SIZE: A1 (841 x 594)						1 OF 1					