DOUBLE-TRUSS TENSION FABRIC BUILDING

50.0m CLEAR-SPAN GROUND-MOUNTED STRUCTURE

PROJECT:
DOUBLE-TRUSS FABRIC BUILDING

SPAN:
50.0 m CLEAR

LENGTH:
50.0 m (10 BAYS @ 5.0m)

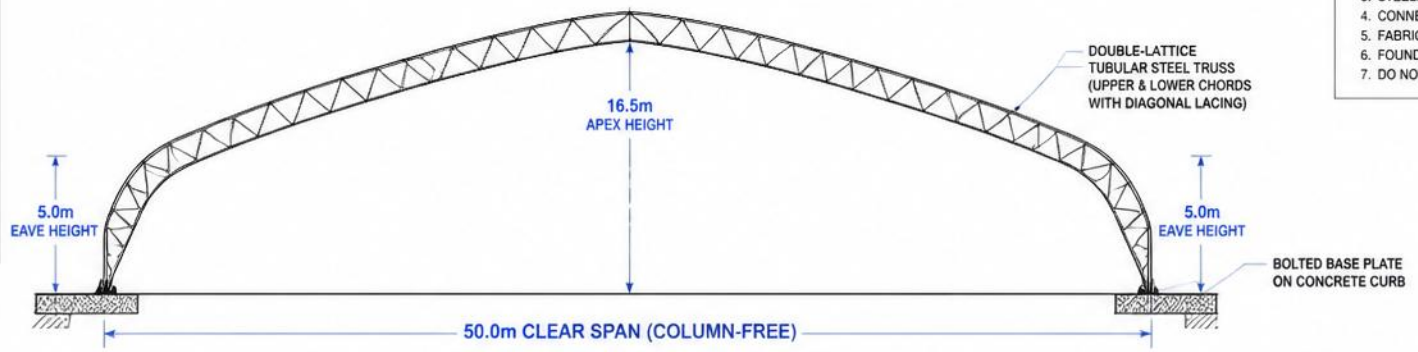
EAVE HEIGHT:
5.0 m

APEX HEIGHT:
16.5 m

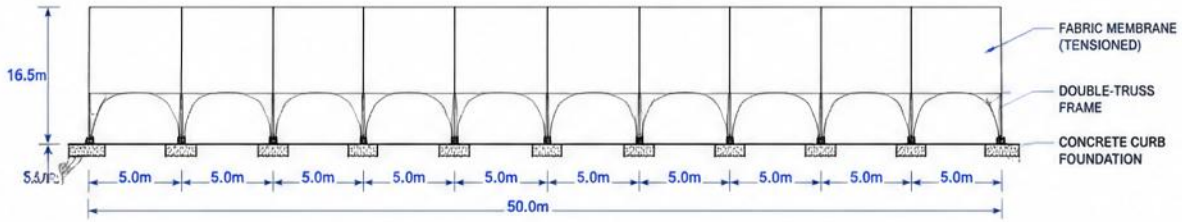
FOUNDATION:
REINFORCED CONCRETE CURB FOOTING

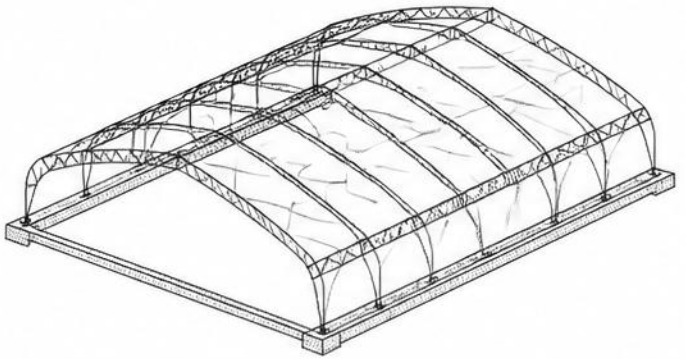
GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS
2. DESIGN IN ACCORDANCE WITH ASCE 7-16
3. STEEL: ASTM A500 GRADE B (TUBULAR)
4. CONNECTIONS: BOLTED (ASTM A325)
5. FABRIC: PVC-COATED POLYESTER
6. FOUNDATION DESIGN BY OTHERS
7. DO NOT SCALE DRAWINGS

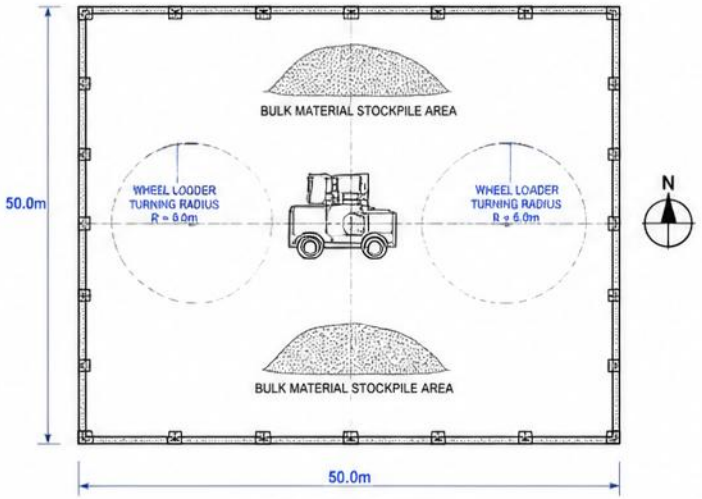


FRONT GABLE CROSS-SECTION ELEVATION

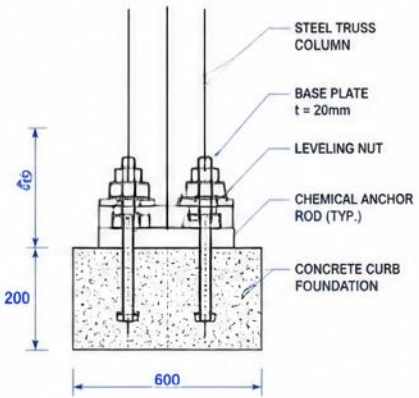




3D AXONOMETRIC ISOMETRIC VIEW



FLOOR PLAN (50.0m x 50.0m)



BASE PLATE & ANCHOR DETAIL

STRUCTURAL DESIGN SUMMARY

CLEAR SPAN	50.0 m
BUILDING LENGTH	50.0 m
BAY SPACING	5.0 m
EAVE HEIGHT	5.0 m
APEX HEIGHT	16.5 m
TRUSS TYPE	DOUBLE-LATTICE TUBULAR STEEL
FABRIC MEMBRANE	PVC-COATED POLYESTER
FOUNDATION	REINFORCED CONCRETE CURB
DESIGN WIND SPEED	180 km/h (ASCE 7-16)
GROUND SNOW LOAD	3.5 kN/m²

DRAWING TITLE:

50m CLEAR-SPAN DOUBLE-TRUSS FABRIC BUILDING GENERAL ARRANGEMENT DRAWINGS

DRAWING NO.:	DTFB-50-GA-001
DATE:	MAY 2024
SCALE:	AS SHOWN
DRAWN BY:	STRUCTURAL CAD TEAM
REVISION:	REV 00

CONCEPT DRAWING ONLY — NOT FOR CONSTRUCTION. FINAL PE-STAMPED DRAWINGS REQUIRE CONFIRMED LOCATION, WIND/SNOW LOADS, SOIL REPORT AND PROJECT OPTIONS.
The drawing content above remains unobstructed; title metadata is placed in reserved margins outside the drawing viewport.