Anti-Drone Screen

CAPABILITY SHEET · OVERHEAD CANOPIES, PERIMETER CURTAINS & POINT ENCLOSURES · ENGINEERED TO ORDER

THE ONE IDEA

PRINCIPLE	The drone sets the mesh. The wind sets the steel. And the edges decide whether any of it works.
WHAT IT IS	A net held in the air where a drone would have to pass, on a galvanized wire-rope grid, columns, guys and footings. It senses nothing and decides nothing.

HOW THE NUMBERS ARE SET

MESH	Opening smaller than the smallest part of the drone to be stopped. Open area = (a/(a+d))^2: 40 mm on 3 mm twine is about 87 % open, 25 mm about 80 %, so a finer net is a more solid sail.
STEEL	Columns, guys and footings sized to the site wind under IS 875 (Part 3), on a net allowed to fill with dust; snow to IS 875 (Part 4) where it applies; design to IS 800.
HEIGHT	Lowest point of the net above the tallest item under it, plus a deliberate standoff, plus sag under load.

EDGES, GATES & BUILD

EDGES	Skirts turned out and buried or clamped to a kerb; panel seams overlapped 300 mm and laced to a rope; gates that close past their posts with an overlap and a brush seal.
BUILD	Survey, design, found, erect, net, prove. Every anchor pull-tested before netting; rope tensions logged bay by bay; every edge walked before handover.
MATERIALS	UV-stabilised knotless HDPE or polyester net, flame-retardant near fuel and power; steel mesh where fire or abrasion governs; galvanizing to IS 4759; wire rope to IS 2266.

CONFIGURATIONS & DRAWINGS

FORMS	Overhead canopy over an open area; perimeter curtain along a boundary; point enclosure around one asset.
DRAWINGS	Sheets 001-004 follow: general arrangement, elevation and section, six construction details, point enclosure. Reference configuration, indicative sizes, not for construction.

SCOPE & STATUS

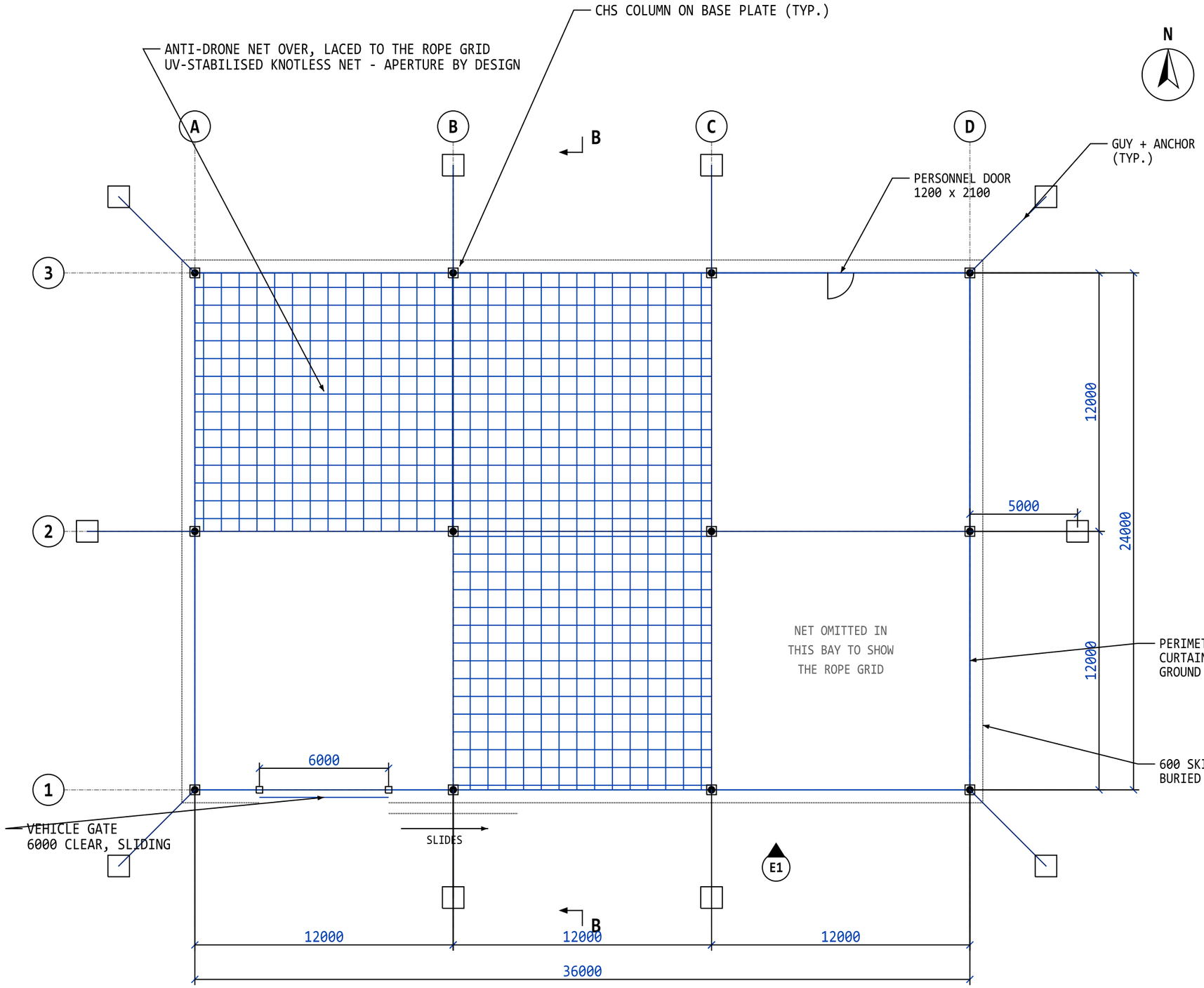
BOUNDARY	A passive net and the steel that holds it. Detection and the active layer belong to a counter-drone system.
STATUS	Neometrix engineers anti-drone screens to order, as overhead canopies, perimeter curtains and point enclosures with their foundations, edges and gates, and no delivered anti-drone screen is claimed.

DEFENCE PROGRAMMES DESK

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Figures describe the screen class Neometrix engineers to order and are not a quotation. Mesh, heights, members and footings are fixed for the customer's site, threat and wind zone at design review. ISO 9001 / ISO 14001. © Neometrix Defence Limited.



NOTES

1. ALL DIMENSIONS IN MILLIMETRES. LEVELS IN METRES ABOVE FINISHED GROUND LEVEL (FGL).
2. REFERENCE CONFIGURATION FOR ILLUSTRATION. MEMBER SIZES, MESH, FOUNDATIONS AND ANCHORS ARE INDICATIVE AND ARE FIXED BY DESIGN FOR THE SITE.
3. WIND LOAD TO IS 875 (PART 3) FOR THE SITE, ON THE SOLID AREA OF THE NET WITH AN ALLOWANCE FOR TRAPPED DUST. SNOW TO IS 875 (PART 4) WHERE IT APPLIES.
4. STEEL TO IS 2062, DESIGNED TO IS 800. HOLLOW SECTIONS TO IS 4923 / IS 1161. HOT-DIP GALVANIZED TO IS 4759.
5. WIRE ROPE GALVANIZED TO IS 2266, TERMINATED WITH THIMBLES AND FERRULES. TENSIONS SET BY TURNBUCKLE AND RECORDED BAY BY BAY.
6. NET: UV-STABILISED KNOTLESS HDPE OR POLYESTER. APERTURE SET BY THE CUSTOMER'S THREAT ASSESSMENT. FLAME-RETARDANT GRADE NEAR FUEL AND POWER.
7. FOUNDATIONS RCC M25 TO IS 456, SIZED FROM A SOIL INVESTIGATION. EVERY GUY ANCHOR PULL-TESTED BEFORE NETTING.
8. NO GAP AT THE GROUND, CORNERS, PANEL JOINTS OR GATES - SEE DETAILS ON SHEET 003.

PLAN - OVERHEAD NET AND PERIMETER CURTAIN

SCALE 1:200 - AREA 36.0 m x 24.0 m, BAYS 12.0 m

LEGEND

- GALVANIZED WIRE ROPE
- NET CURTAIN / NET EDGE
- BURIED SKIRT / OPEN GATE
- GRIDLINE

REFERENCE CONFIGURATION - NOT FOR CONSTRUCTION

NEOMETRIX DEFENCE LIMITED
ENGINEERED IN NOIDA - INDIA

ANTI-DRONE SCREEN - REFERENCE CONFIGURATION

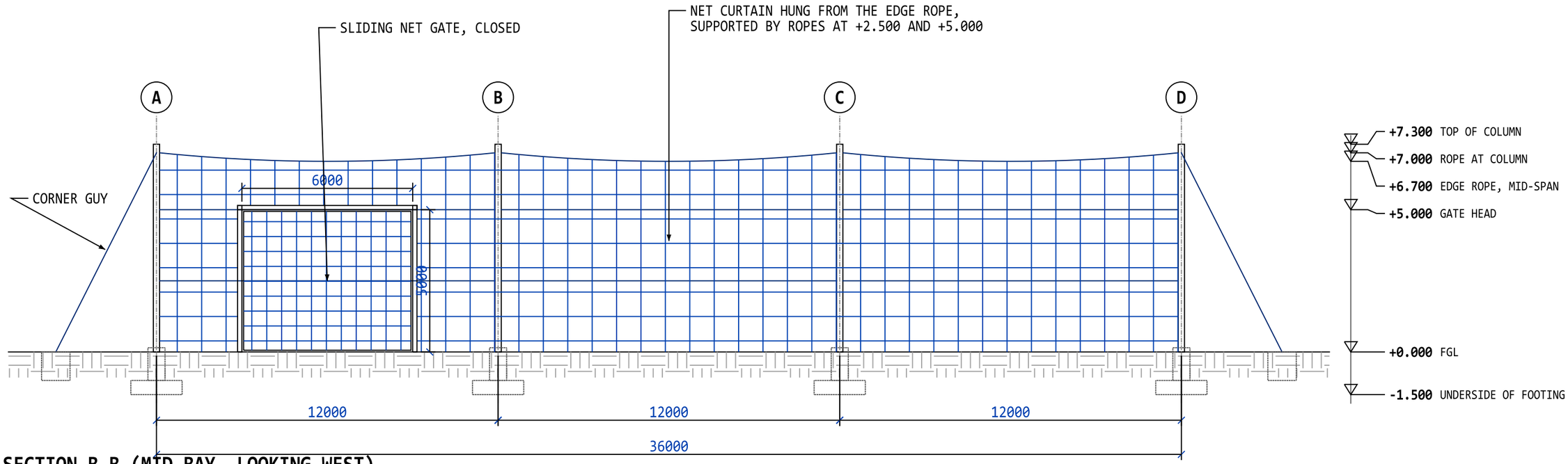
GENERAL ARRANGEMENT - PLAN

OVERHEAD NET + PERIMETER CURTAIN, 3 x 2 BAYS

DWG NO	SCALE @ A3	SHEET	REV
NMX-ADS-41-001	1:200	1 OF 4	A
DATE	UNITS	DRAWN	STATUS
23-10-2026	mm / m	NMX-DO	REFERENCE

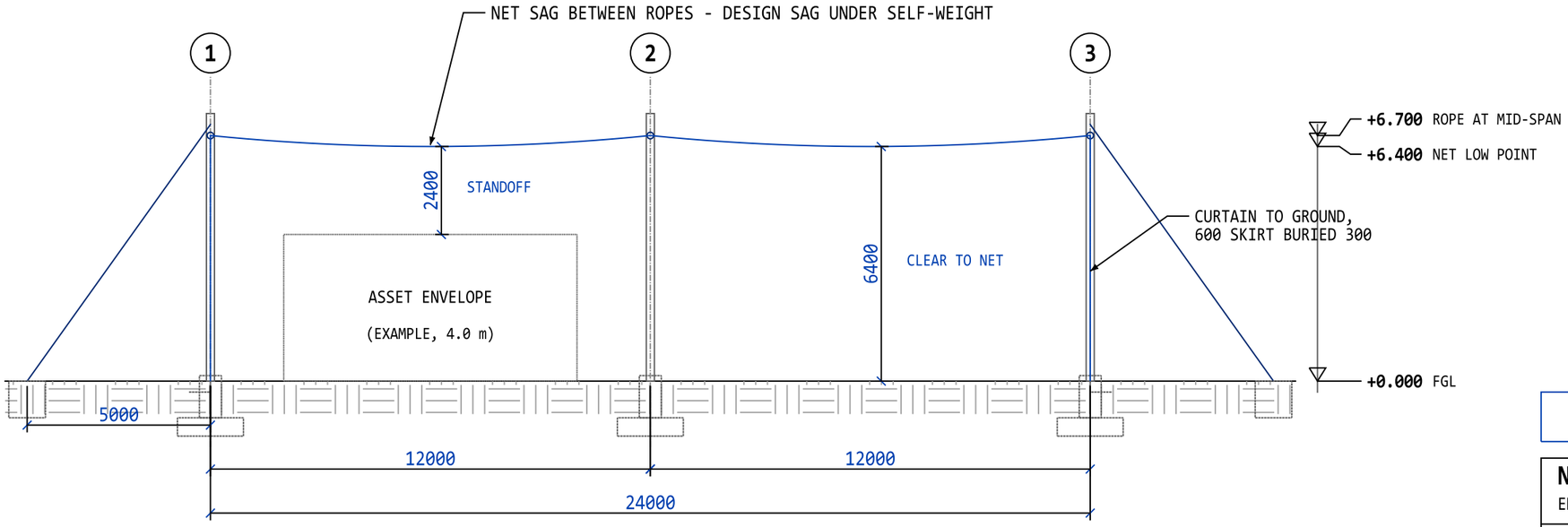
ELEVATION E1 - SOUTH FACE (GRID 1)

SCALE 1:150 - GUYS SQUARE TO THIS FACE NOT SHOWN



SECTION B-B (MID-BAY, LOOKING WEST)

SCALE 1:150



NOTES

1. SAGS ARE DESIGN SAGS UNDER SELF-WEIGHT. DEFLECTION UNDER WIND AND TRAPPED DUST IS CHECKED AGAINST THE CLEARANCE ENVELOPE, NOT AGAINST THE DRAWING.
2. CLEAR HEIGHT AND STANDOFF ARE SET FROM THE TALLEST ITEM THAT WILL STAND OR MOVE UNDER THE NET.
3. FOUNDATIONS SHOWN HIDDEN ARE INDICATIVE; SIZES FROM THE SOIL INVESTIGATION.
4. SEE SHEET 001 FOR THE PLAN AND SHEET 003 FOR DETAILS.

REFERENCE CONFIGURATION - NOT FOR CONSTRUCTION

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ANTI-DRONE SCREEN - REFERENCE CONFIGURATION

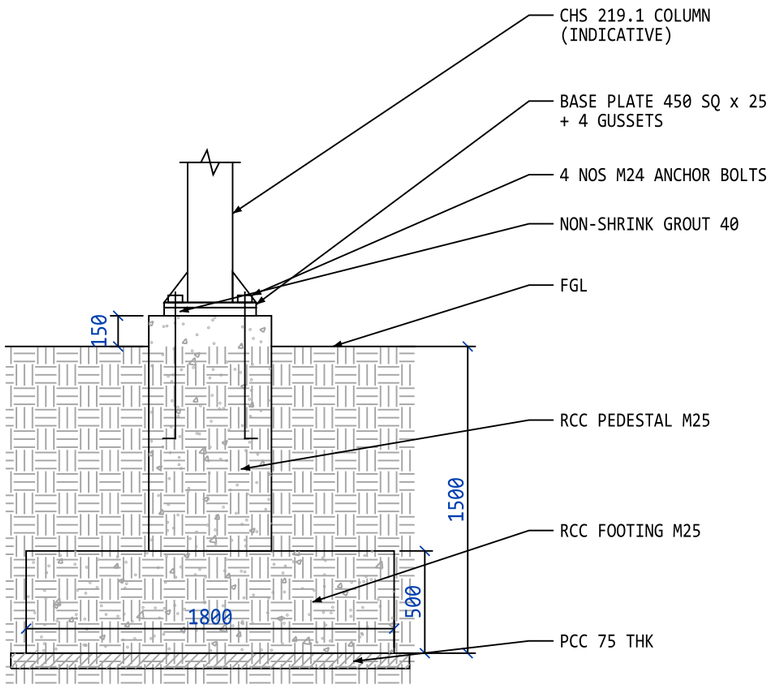
ELEVATION E1 AND SECTION B-B

HEIGHTS, SAGS, CLEARANCE AND STANDOFF

DWG NO	SCALE @ A3	SHEET	REV
NMX-ADS-41-002	1:150	2 OF 4	A
DATE	**UNITS**	**DRAWN**	**STATUS**
23-10-2026	mm / m	NMX-DO	REFERENCE

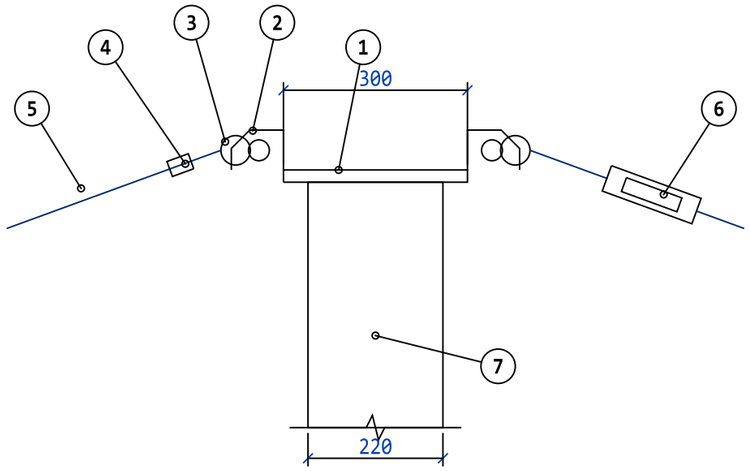
D1 COLUMN BASE - SECTION

SCALE 1:30



D2 COLUMN HEAD - ELEVATION

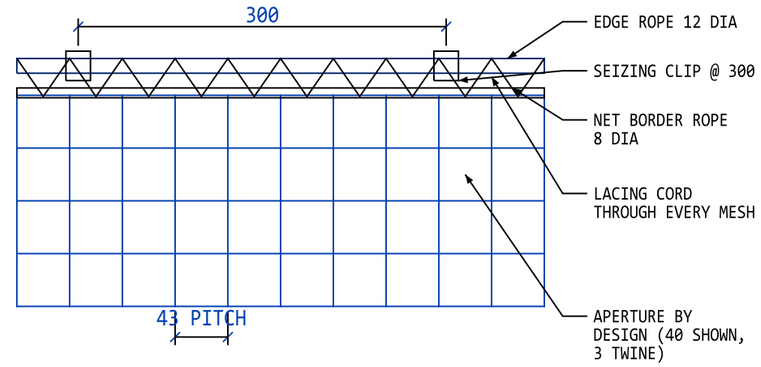
SCALE 1:10



1 CAP PLATE 300 SQ x 20
2 PADEYE 20 THK, 4 NOS AT 90 DEG
3 BOW SHACKLE (WLL BY DESIGN)
4 FERRULE ON THIMBLE EYE
5 WIRE ROPE 12 DIA GALV. (IS 2266)
6 TURNBUCKLE, LOCKED (EDGE ROPES)
7 CHS 219.1 COLUMN (INDICATIVE)

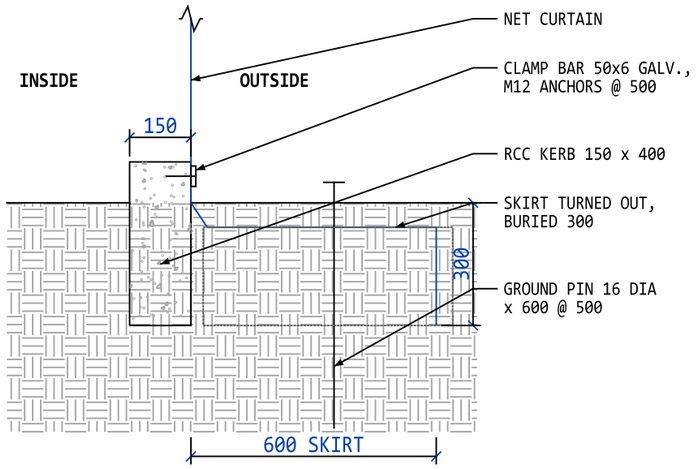
D3 NET TO EDGE ROPE

SCALE 1:5



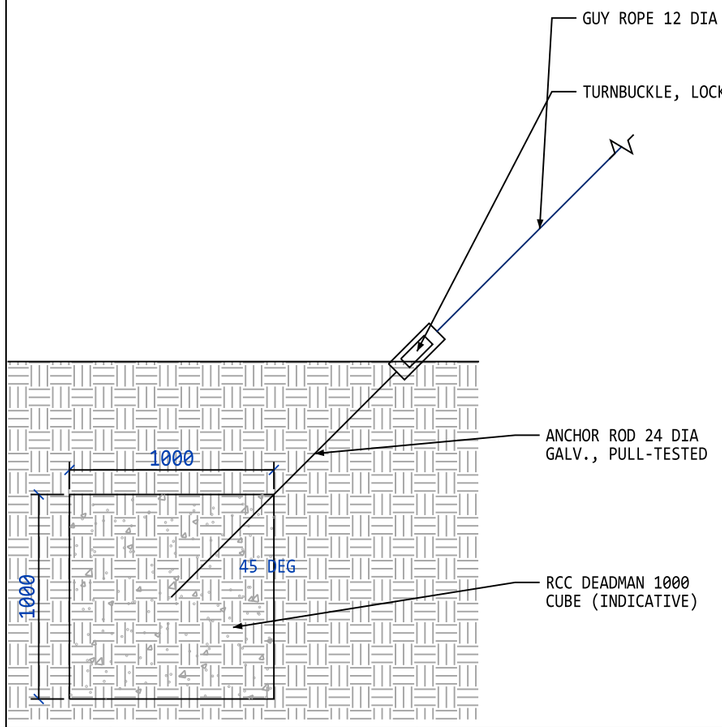
D4 GROUND SKIRT AND KERB - SECTION

SCALE 1:15



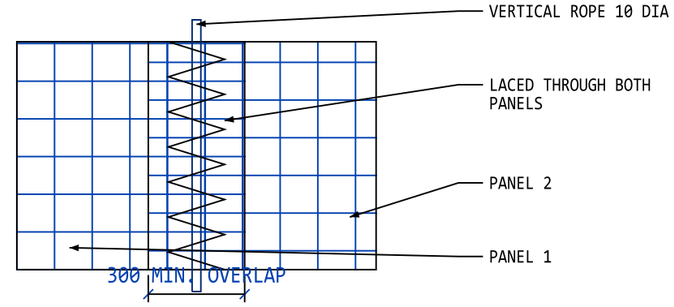
D5 GUY ANCHOR - SECTION

SCALE 1:30



D6 NET PANEL SEAM

SCALE 1:7



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ANTI-DRONE SCREEN - REFERENCE CONFIGURATION

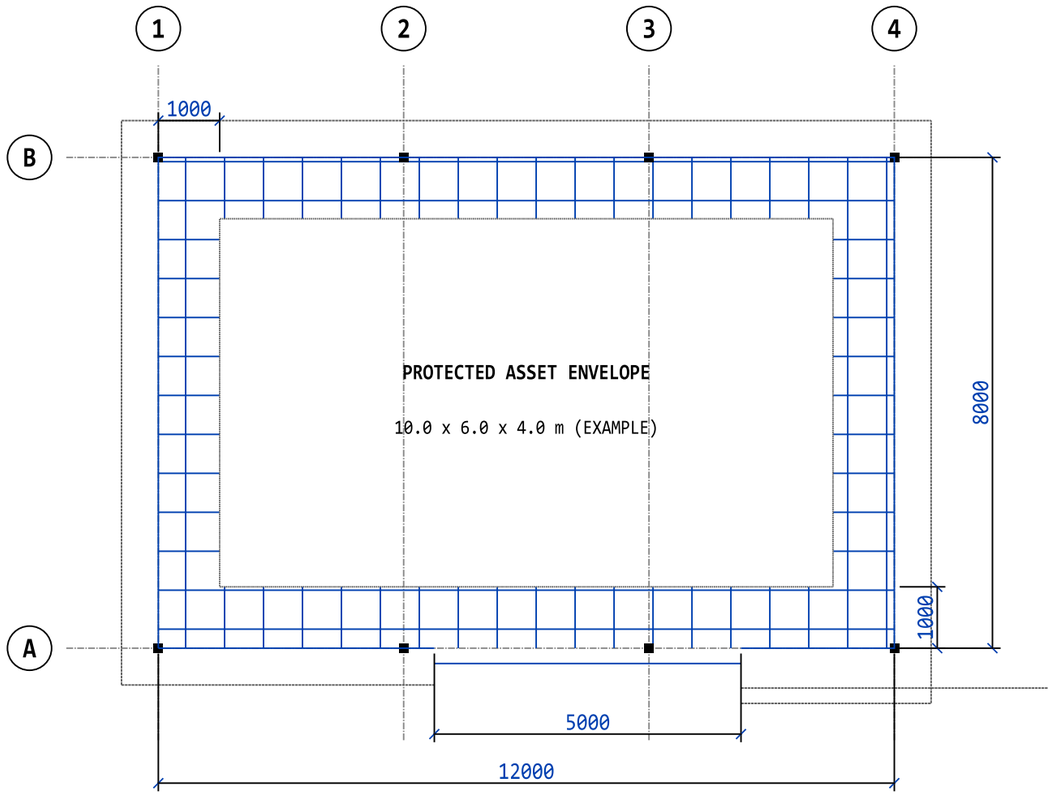
CONSTRUCTION DETAILS D1 - D6

BASE, HEAD, NET EDGE, SKIRT, ANCHOR, SEAM

DWG NO	SCALE @ A3	SHEET	REV
NMX-ADS-41-003	AS NOTED	3 OF 4	A
DATE	UNITS	DRAWN	STATUS
23-10-2026	mm / m	NMX-DO	REFERENCE

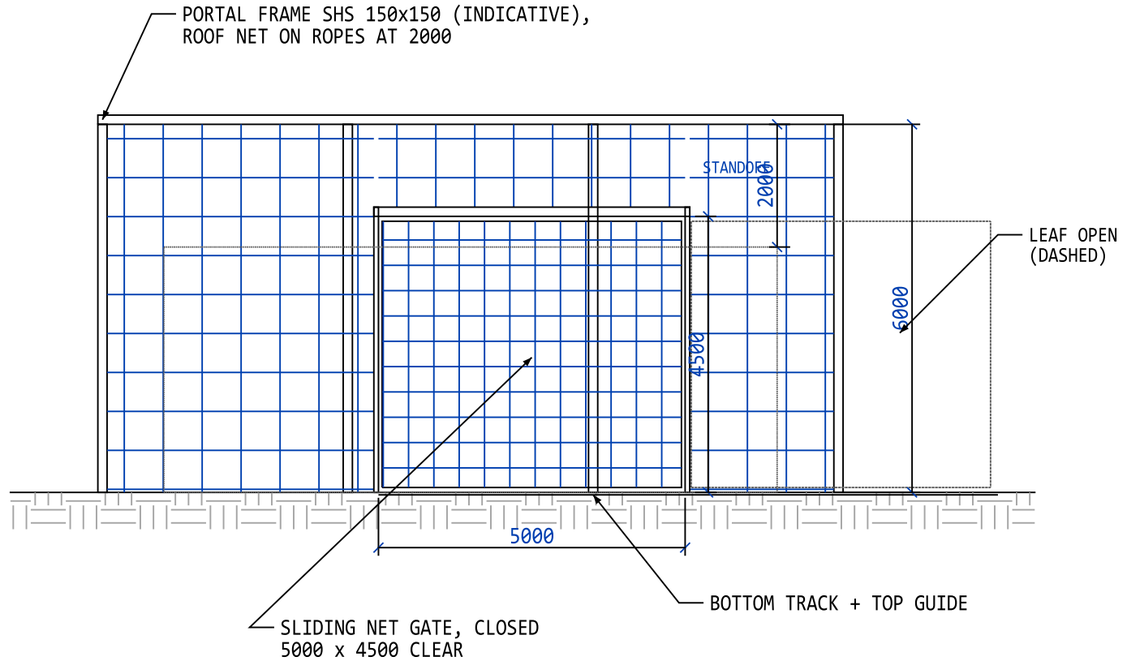
PLAN

SCALE 1:100 - 12.0 m x 8.0 m, FRAMES AT 4.0 m



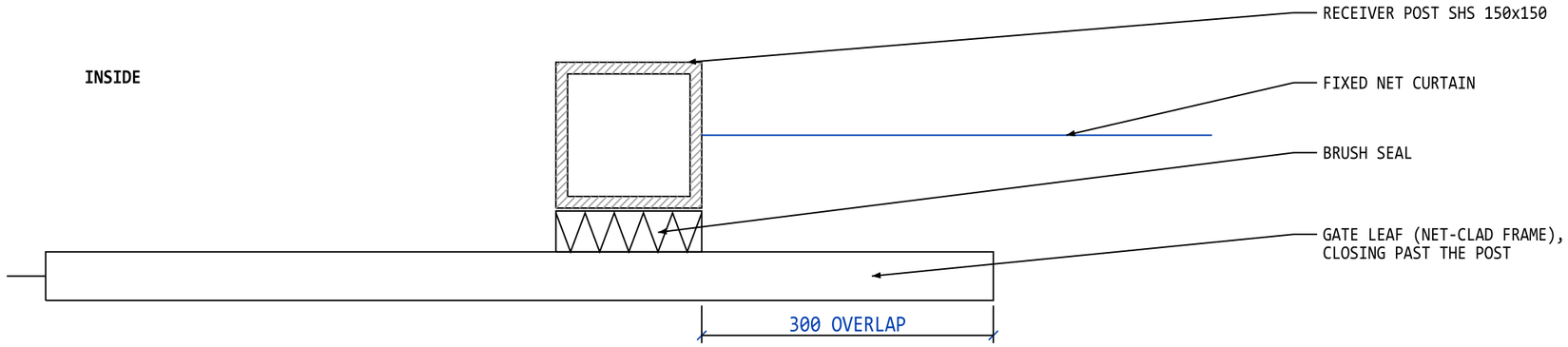
ELEVATION ON FRAME LINE A

SCALE 1:100 - GATE FACE



GATE CLOSING EDGE - PLAN

SCALE 1:6



NOTES

1. A POINT ENCLOSURE PROTECTS ONE ASSET WITH ITS OWN FRAME: SMALLER FOUNDATIONS, NO GUYS, AND A GATE THAT IS PART OF THE FRAME.
2. CLEARANCE (1000 ALL ROUND) AND STANDOFF ARE SET FROM THE ASSET AND ITS WORKING ZONE - DOORS, HATCHES, ACCESS AND ANYTHING RAISED OR SWUNG.
3. THE GATE CLOSES PAST A RECEIVER POST WITH A 300 OVERLAP AND A BRUSH SEAL, SO A CLOSED GATE LEAVES NO STRAIGHT PATH THROUGH THE JOINT.
4. MEMBER SIZES INDICATIVE; DESIGN TO IS 800 AND IS 875 (PART 3) FOR THE SITE.

REFERENCE CONFIGURATION - NOT FOR CONSTRUCTION

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ANTI-DRONE SCREEN - REFERENCE CONFIGURATION

POINT ENCLOSURE WITH SLIDING NET GATE

ONE ASSET, ITS OWN FRAME, NET AND GATE

DWG NO	SCALE @ A3	SHEET	REV
NMX-ADS-41-004	1:100 / 1:10	4 OF 4	A
DATE	UNITS	DRAWN	STATUS
23-10-2026	mm / m	NMX-DO	REFERENCE