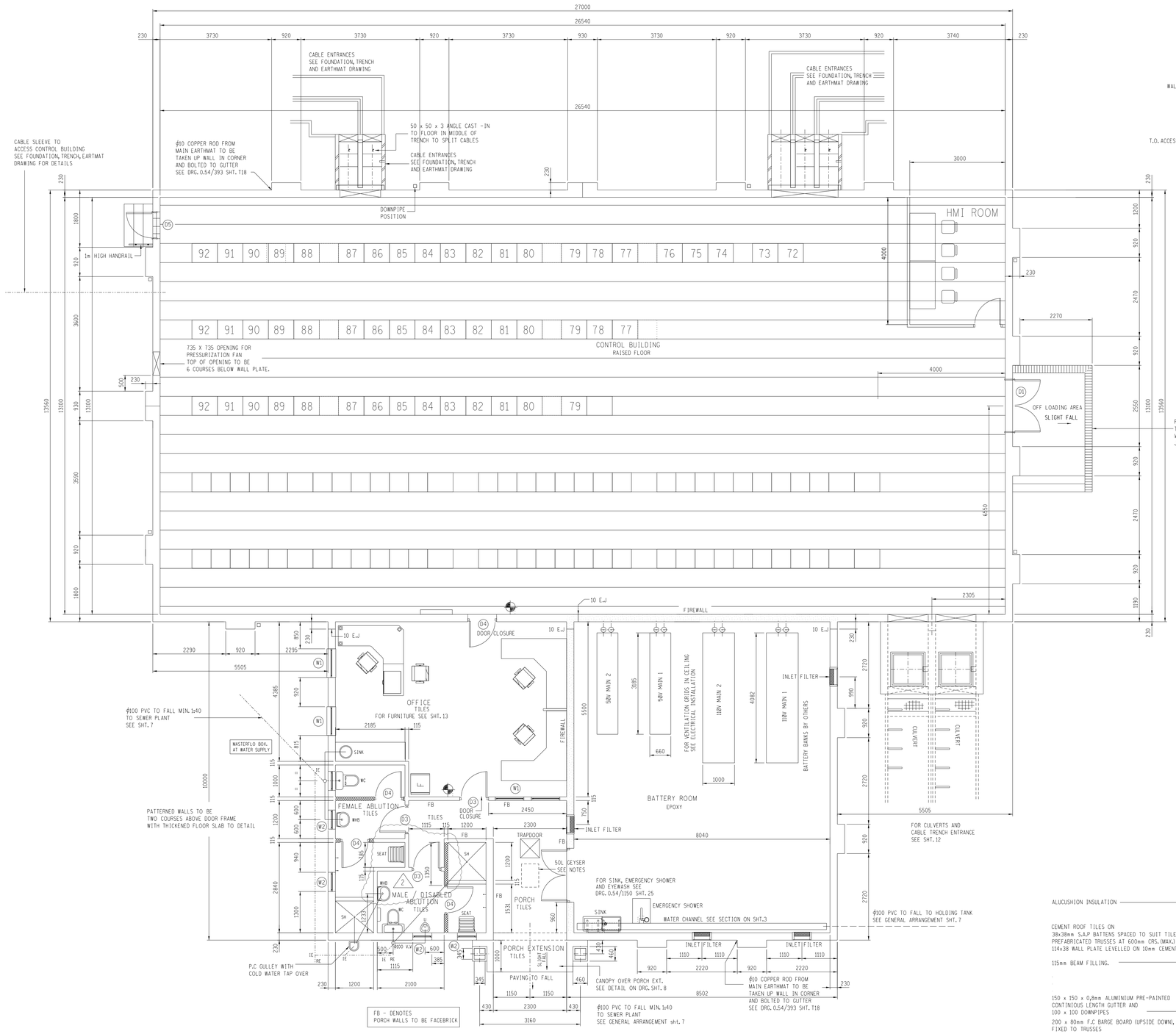


PLAN

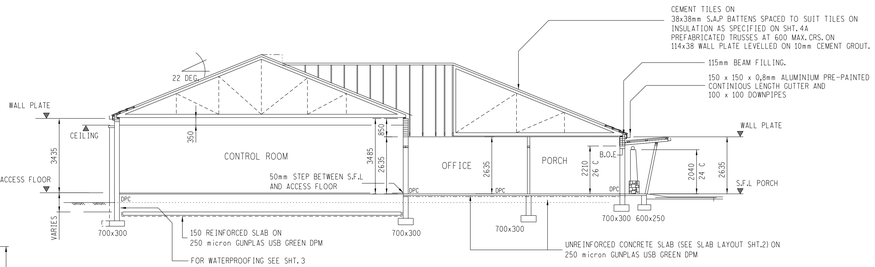
1:50

AREA = 526 q.m

1 x 9kg. CO2 &
1 x 9kg. DRY POWDER
FIRE EXTINGUISHERS
TO BE SUPPLIED AND FITTED
BY CONTRACTOR.

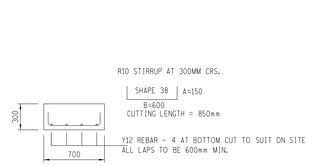
ALL FIRE EXTINGUISHERS TO BE INSTALLED WHERE SHOWN ON 25mm NOMINAL THICKNESS HARDWOOD BACKING BOARDS WITH CHAMFERED EDGES, PLUGGED & SCREWED TO WALL. HOOK HEIGHT TO BE 1m ABOVE FLOOR.

610 x 610 TRAP DOOR IN CEILING, AS SHOWN ON PLAN.



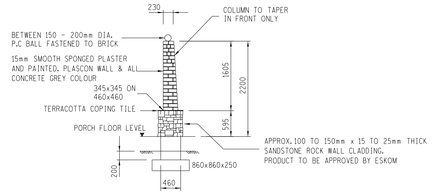
SECTION Y-Y

1:100



FOUNDATION REBAR

1:25



COLUMN DETAIL AT PORCH

1:100

FLOOR AREAS	
CONTROL ROOM	282m²
BATTERY ROOM	90m²
OFFICE	17m²
ABLUTION 1	8m²
ABLUTION 2	3m²
PORCH	9m²
TOTAL BUILDING	437,70m²

FACEBRICK TO BE SELECTION BETWEEN LIGHT BROWN COROBRIK (ONLY)
- FYNBOS GEEL SATIN.
- BLUE BARLEY
- GOLDEN WHEAT
- TOPAZ SATIN

ROOF TRUSS DESIGN

ROOF TRUSS DESIGN, DRAWINGS AND QITP TO BE SUBMITTED FOR APPROVAL BEFORE DELIVERING AND INSTALLATION

GENERAL NOTES.

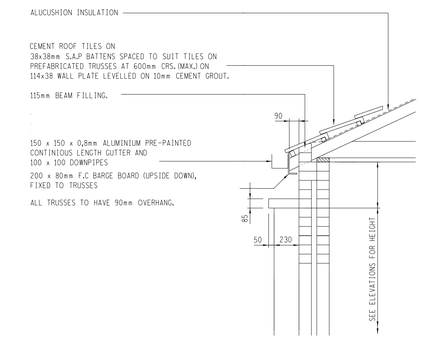
1. ALL WORK TO SANS 10400-1990-2, SANS1200 & NATIONAL PREAMBLE OF TRADES. ALL WORK AT LEAST COMPLIES WITH THE 'ACCURACY IN BUILDINGS' SANS 10155-1980-1, GRADE OF ACCURACY 2, UNLESS OTHERWISE SPECIFIED.
2. BRICKS TO BE CLAY FACEBRICK CLASS 'FBX' TO SABS 227 IN CLASS II MORTAR. FACEBRICK TO BE LIGHT BROWN COROBRIK AS SPECIFIED. INTERNAL PLASTERED WALLS TO BE CLAY BRICKS CLASS 'NFP' IN CLASS II MORTAR.
3. BRICKWORK TO BE REINFORCED WITH 150mm 'BRICKFORCE' REINFORCEMENT TO FIRST FIVE COURSES ABOVE FOUNDATIONS AND FIVE COURSES ABOVE WINDOW AND DOOR HEAD HEIGHT AROUND, ALSO EVERY THIRD INTERMEDIATE COURSE. BRICKWORK ABOVE PREFABRICATED CONCRETE LINTEL TO BE SOAKED IN WATER. ALL JOINTS IN BRICKWORK TO BE SOLID POINTED CONCAVE.
4. DEPTH OF FOUNDATIONS TO FOUND ON APPROVED FOUNDING MATERIAL.
5. PREFABRICATED REINFORCED CONCRETE LINTELS OVER DOORS, OPENINGS, WINDOWS, ETC. TO BE ADEQUATELY SUPPORTED DURING BUILDING OPERATIONS.
6. PREFABRICATED ROOF TRUSSES TO BE DESIGNED AND CONSTRUCTED BY AN APPROVED TRUSS-NAIL FABRICATOR, SUPPORTED ON WALL PLATES AND BE BEDDED ON CEMENT GROUT BED. CONTRACTOR TO PROVIDE WRITTEN GUARENTEE AND DESIGN ENGINEER'S SERTIFICATE.
7. WALL PLATES AND RAFTERS TO BE LASHED DOWN WITH 38x1,6mm THICK GALVANISED HOOP-IRON TIES BUILT INTO EXTERNAL WALLS TO TEN BRICK COURSES BELOW WALL PLATE.
8. PROVIDE 610x610mm FRAMED ACCESS TRAP DOOR IN CEILING AS SHOWN ON PLAN IN BATTERY ROOM.
9. AIRCONDITIONING UNITS AS PER SPECIFICATION.
10. SUPPLY AND INSTALL A 50L ELEC. WATER HEATER. - SEE SHT. 4A. PROVIDE 'COBRA PA5.1 - PVC - MASTERFLO 1 HOUSEBOX' WITH ACCESS ON OUTSIDE OF BUILDING.
11. FIREWALL BETWEEN BATTERY ROOM AND CONTROL ROOM TO BE BUILD UP TO UNDERSIDE OF ROOF TILES AND SEALED TIGHT WITH FOAM FILLER TO PREVENT THE ESCAPE OF HYDROGEN GASSES.

PLUMBING

ALL PLUMBING COPPER PIPES TO BE
SANS 460 CLASS 2
NO BENDING - USE FITTINGS
CAPILLARY SOLDER SYSTEM - JOINTS NEAT.
ALL EXPOSED PIPES ABOVE GROUND TO BE CLEANED.

UNDERGROUND WATER SUPPLY PIPE FROM THE WATER STORAGE TANK OR BOOSTER PUMP TO THE BUILDING TO BE A Φ25 HDPE.

NO WATER SUPPLY PIPE TO BE INSTALLED ON THE EXTERIOR WALL OF THE BUILDING



ROOF OVERHANG DETAIL

1:20

CONCEPT DESIGN
NOT FOR CONSTRUCTION

REV	REVISION DESCRIPTION	DRAWN	CHKD	AUTH	DATE	REFERENCE DRAWINGS

APPROVED BY
DATE
CHECKED BY
DATE
DRAWN BY
DB NAUDE
DATE 22-2-2023
SCALE AS SHOWN

Eskom
Eskom Holdings SOC Ltd
Reg No 2002/015527/30

ESKOM EPC SUBSTATION
CONTROL BUILDING
TYPICAL CONCEPT LAYOUT PLAN

0.54/1150

SHEET NUMBER 110
REVISION 0

SIZE A0 ORIENTATION AOL