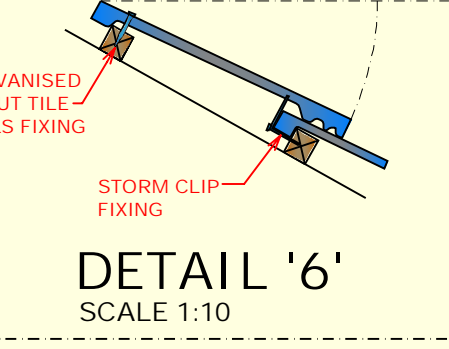
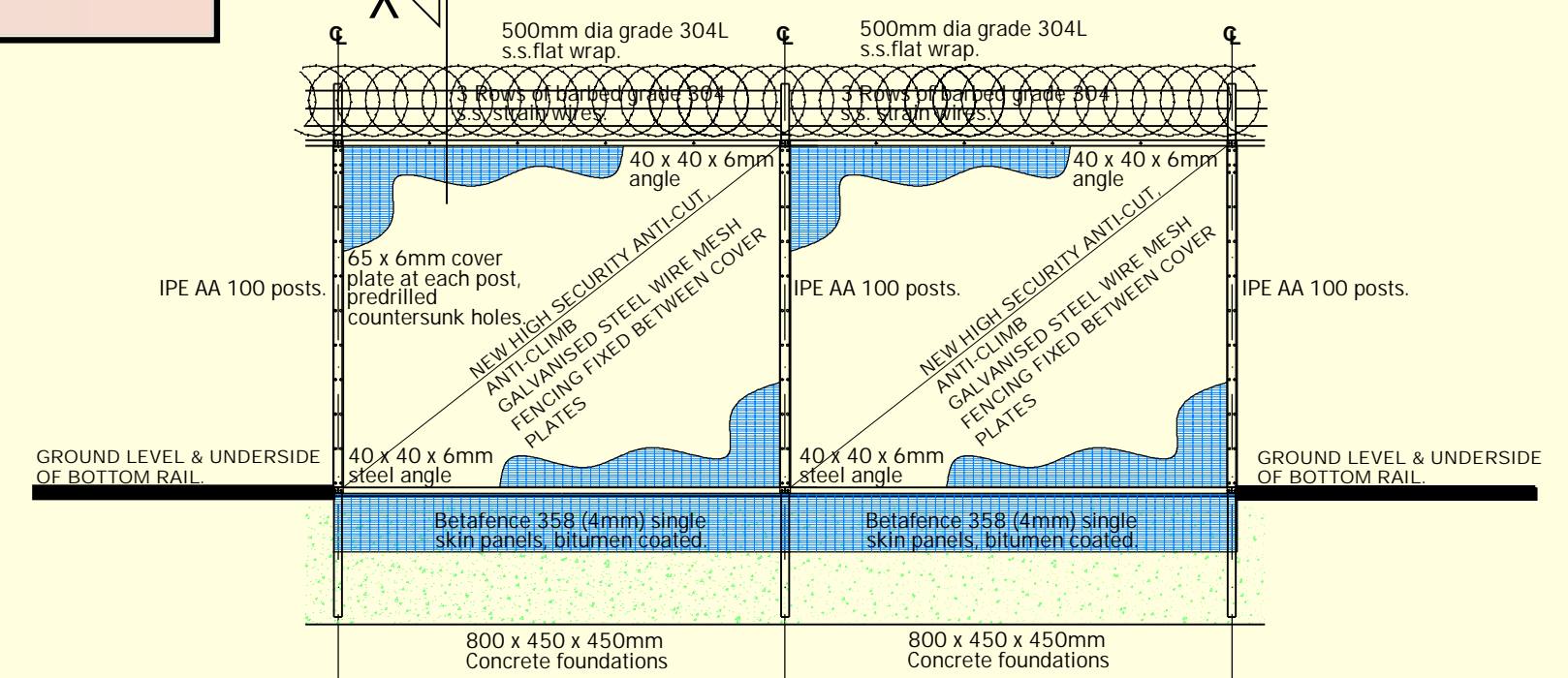
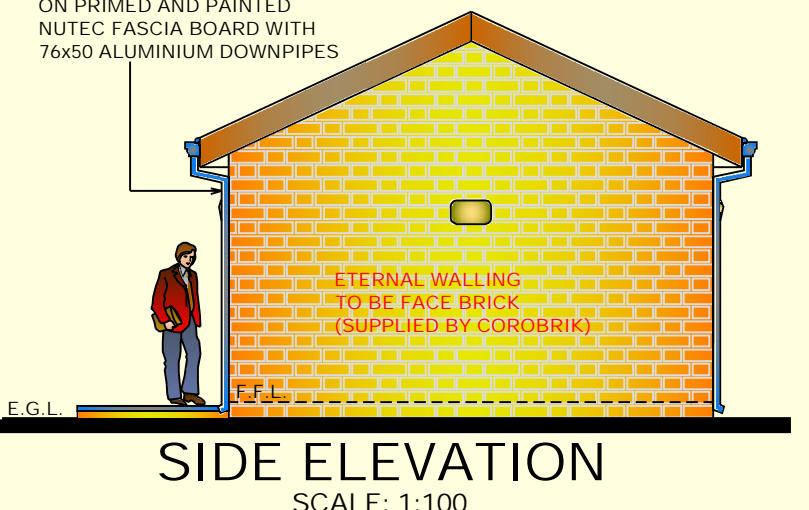
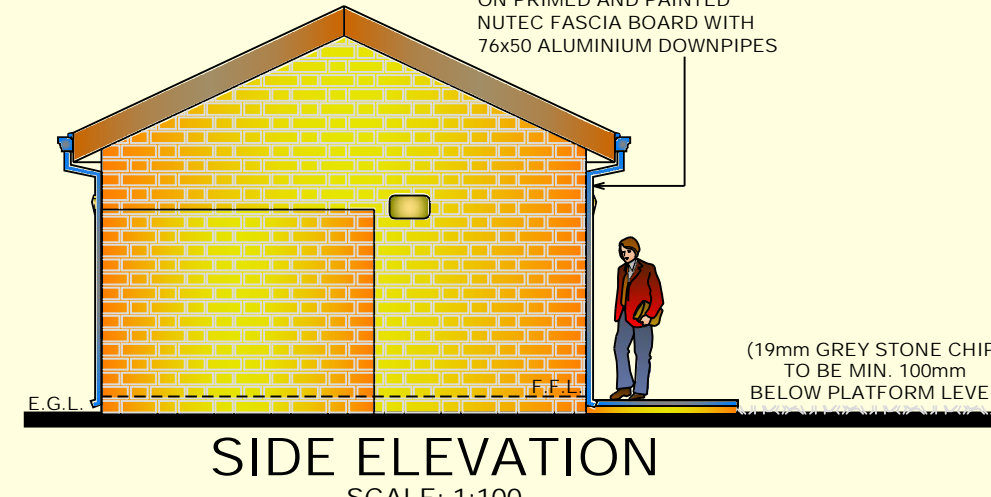
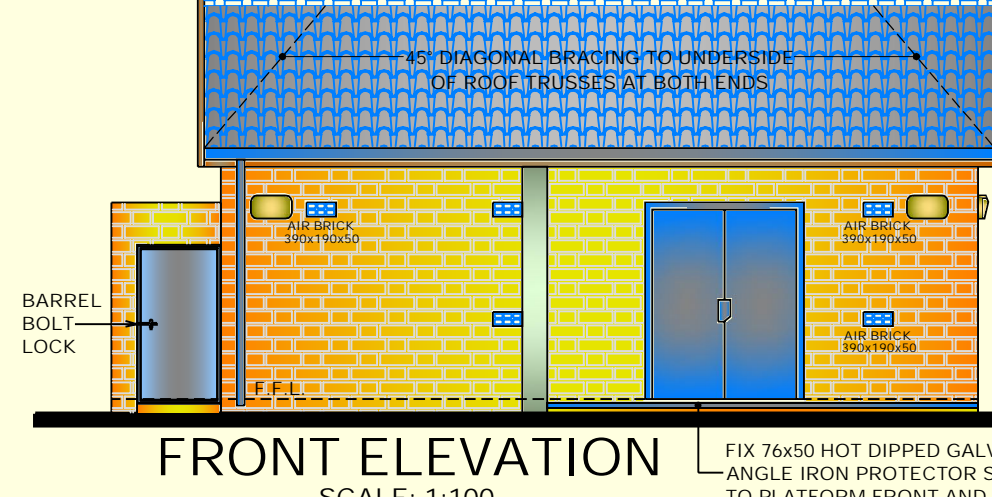
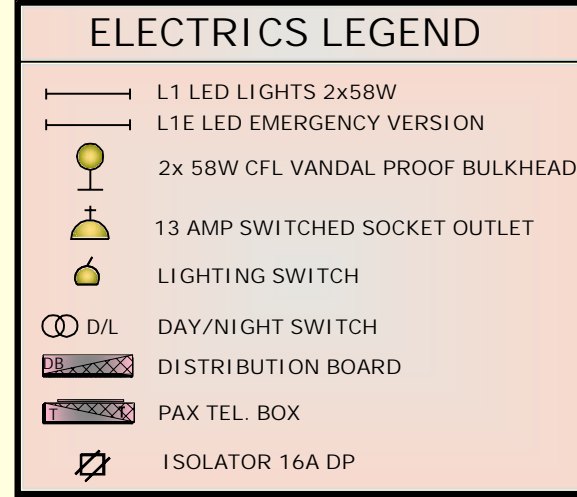
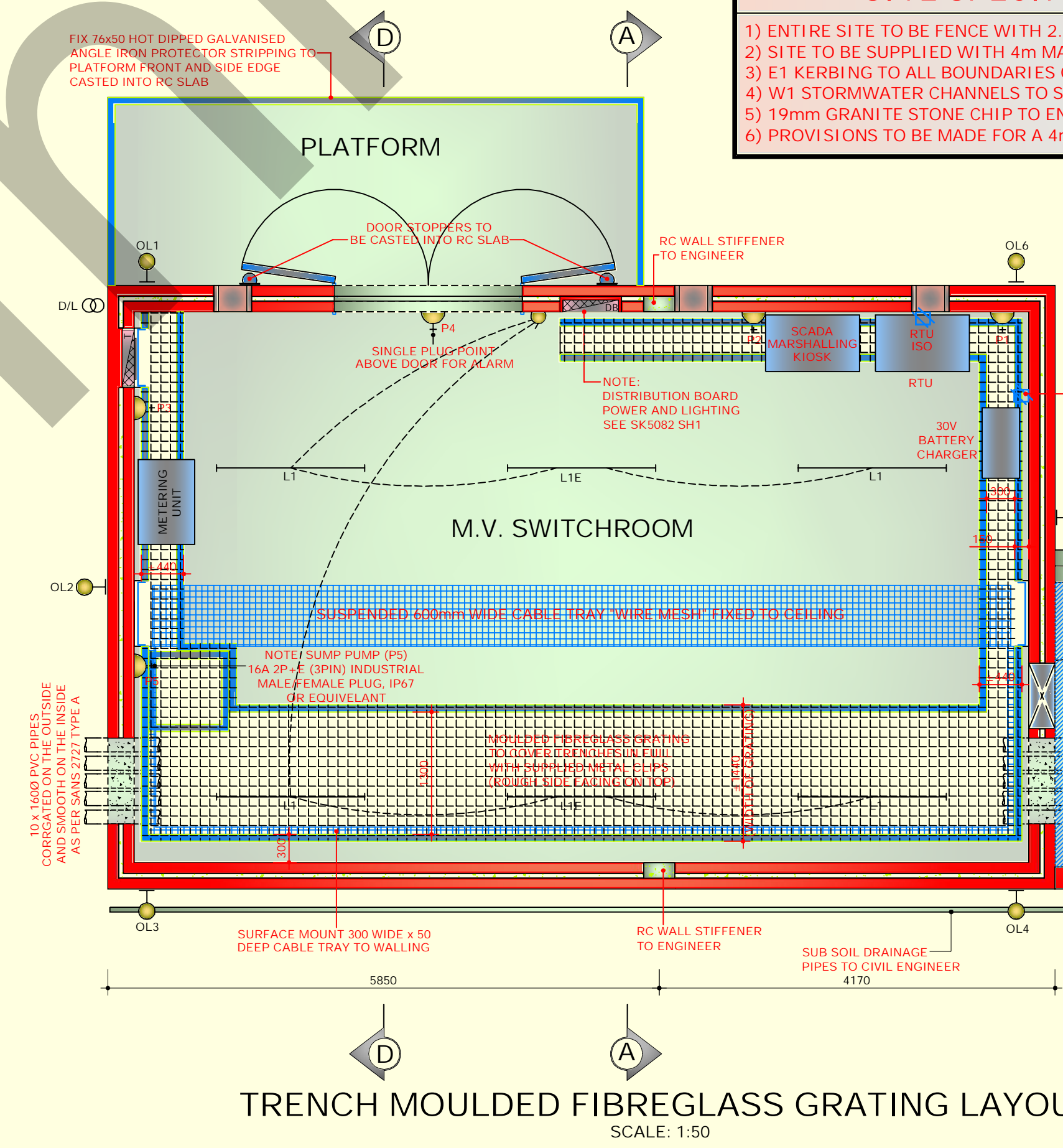
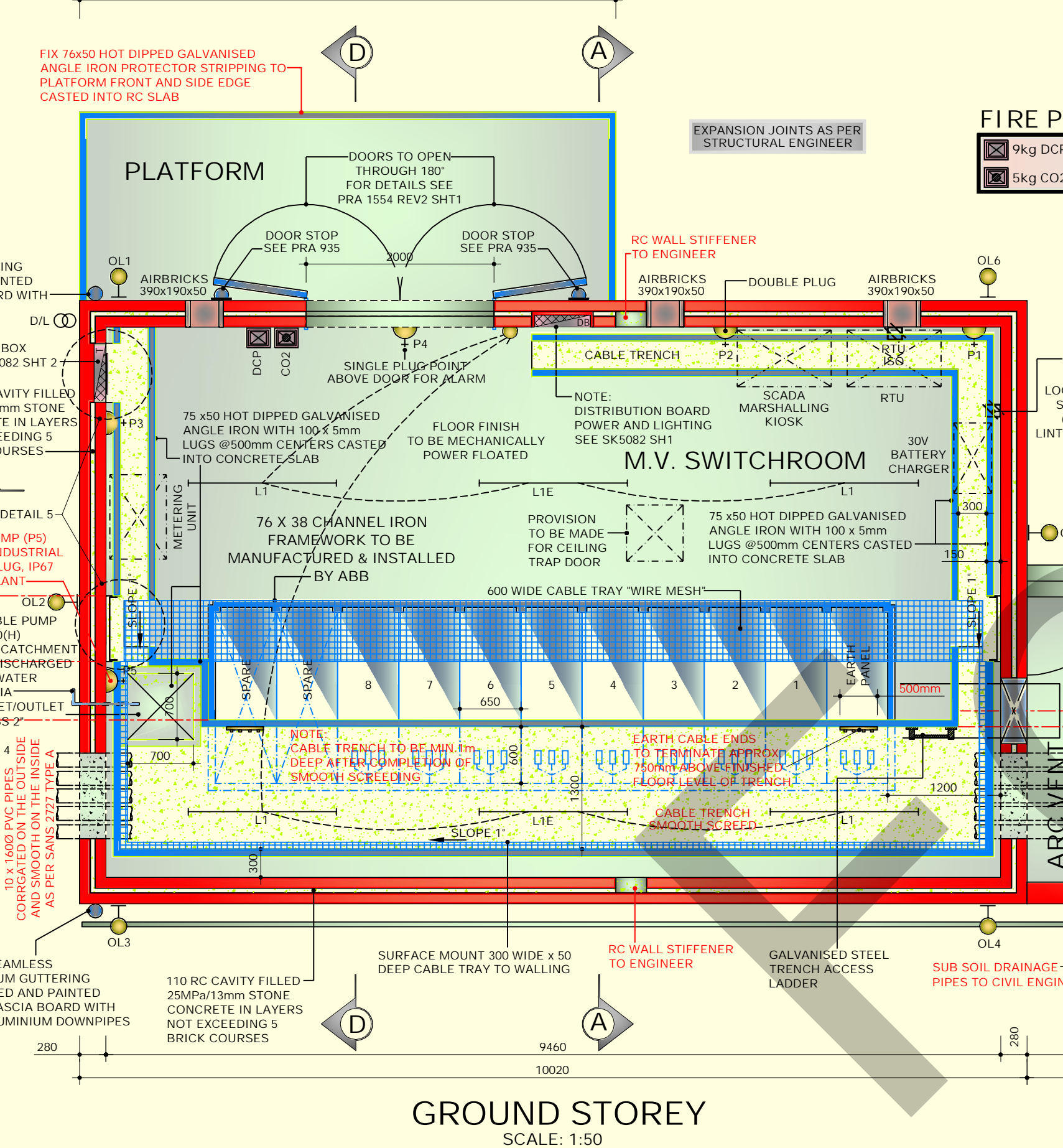
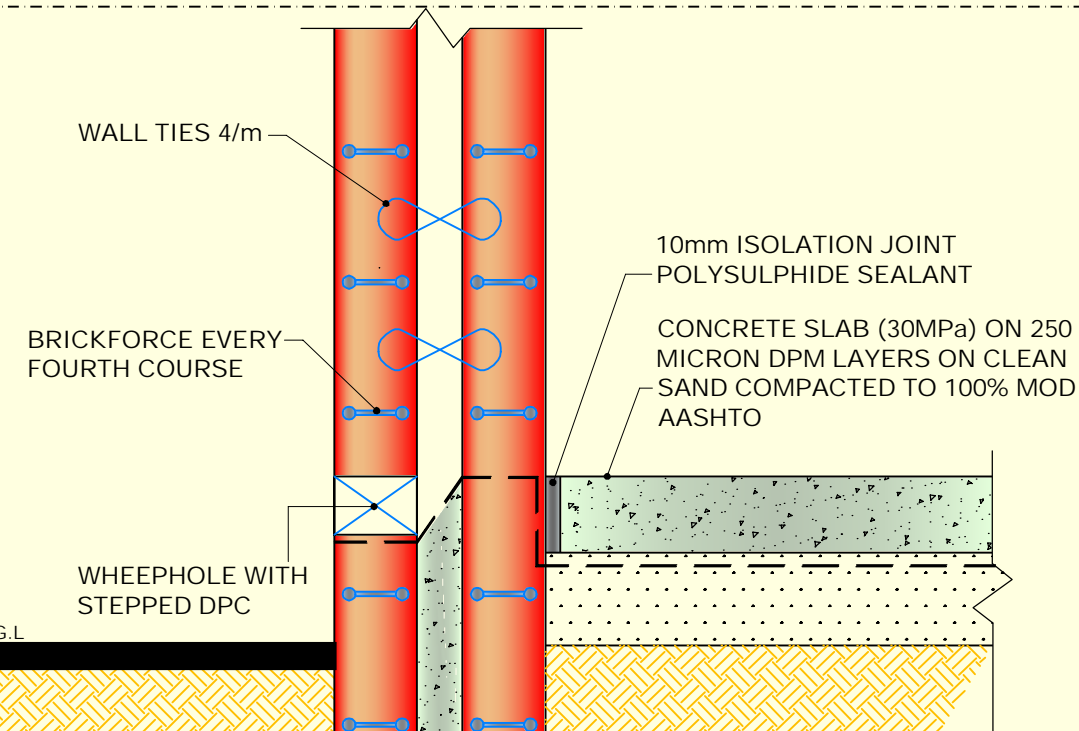
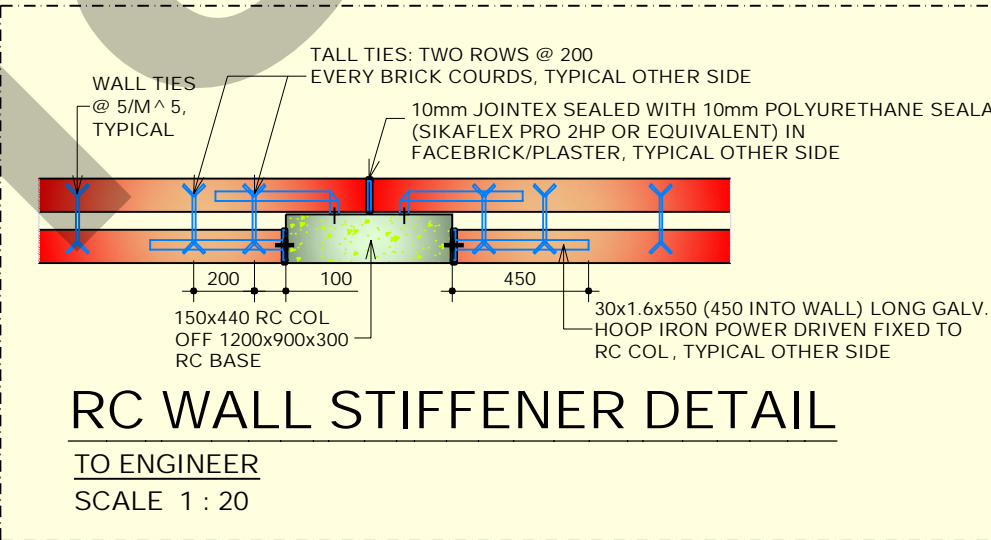
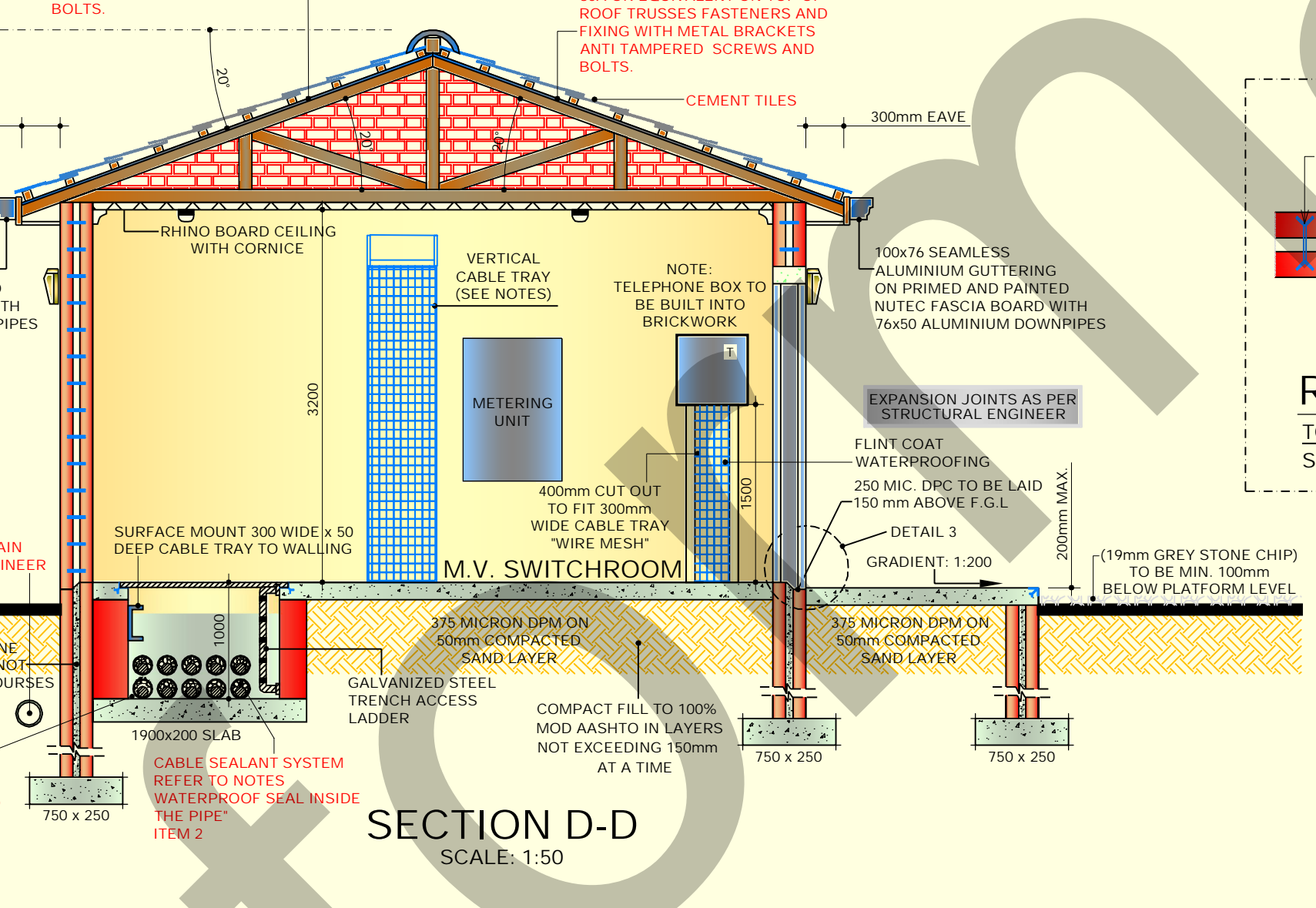
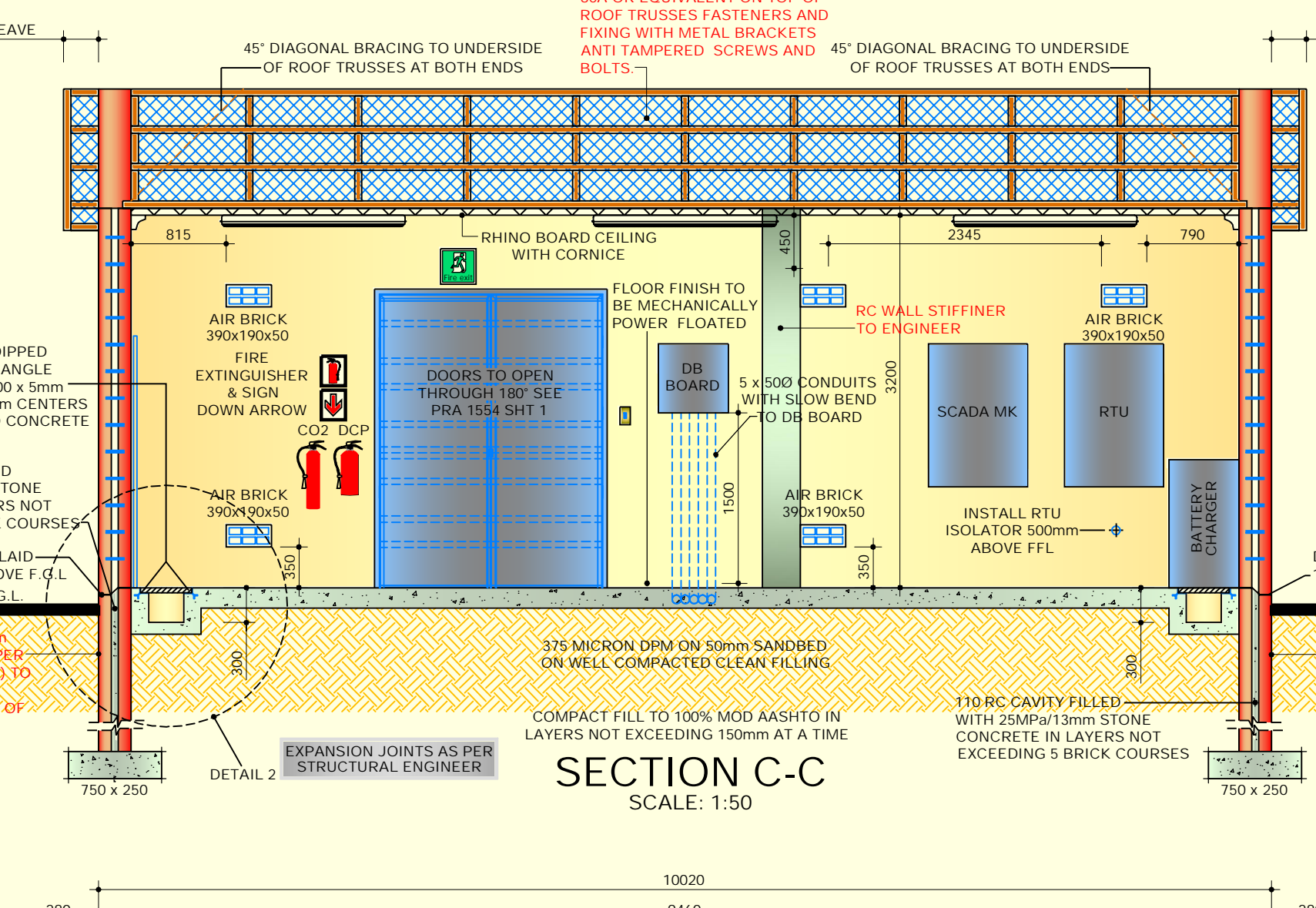
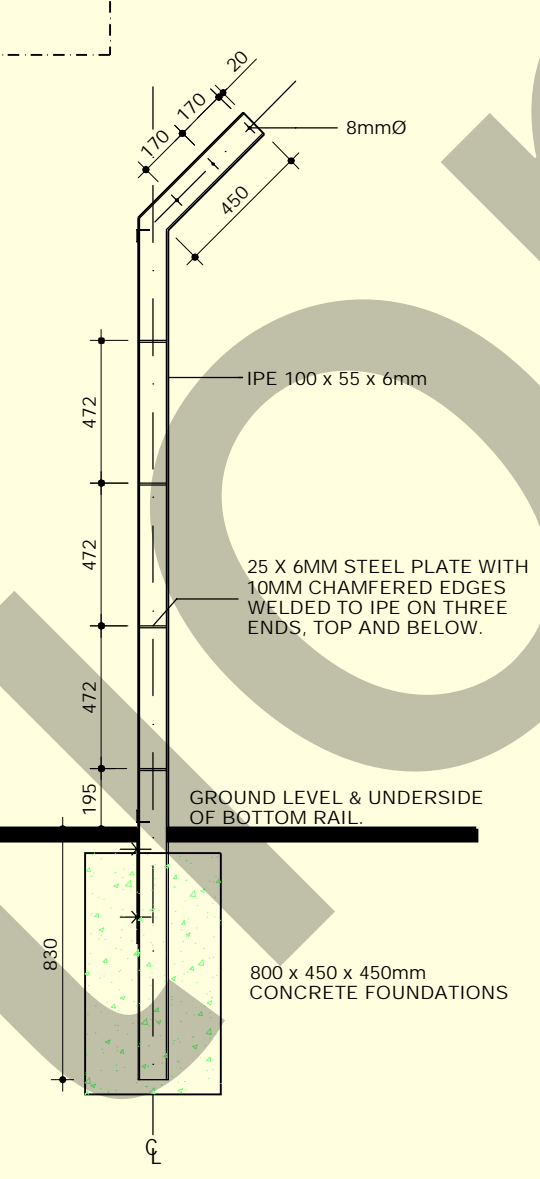
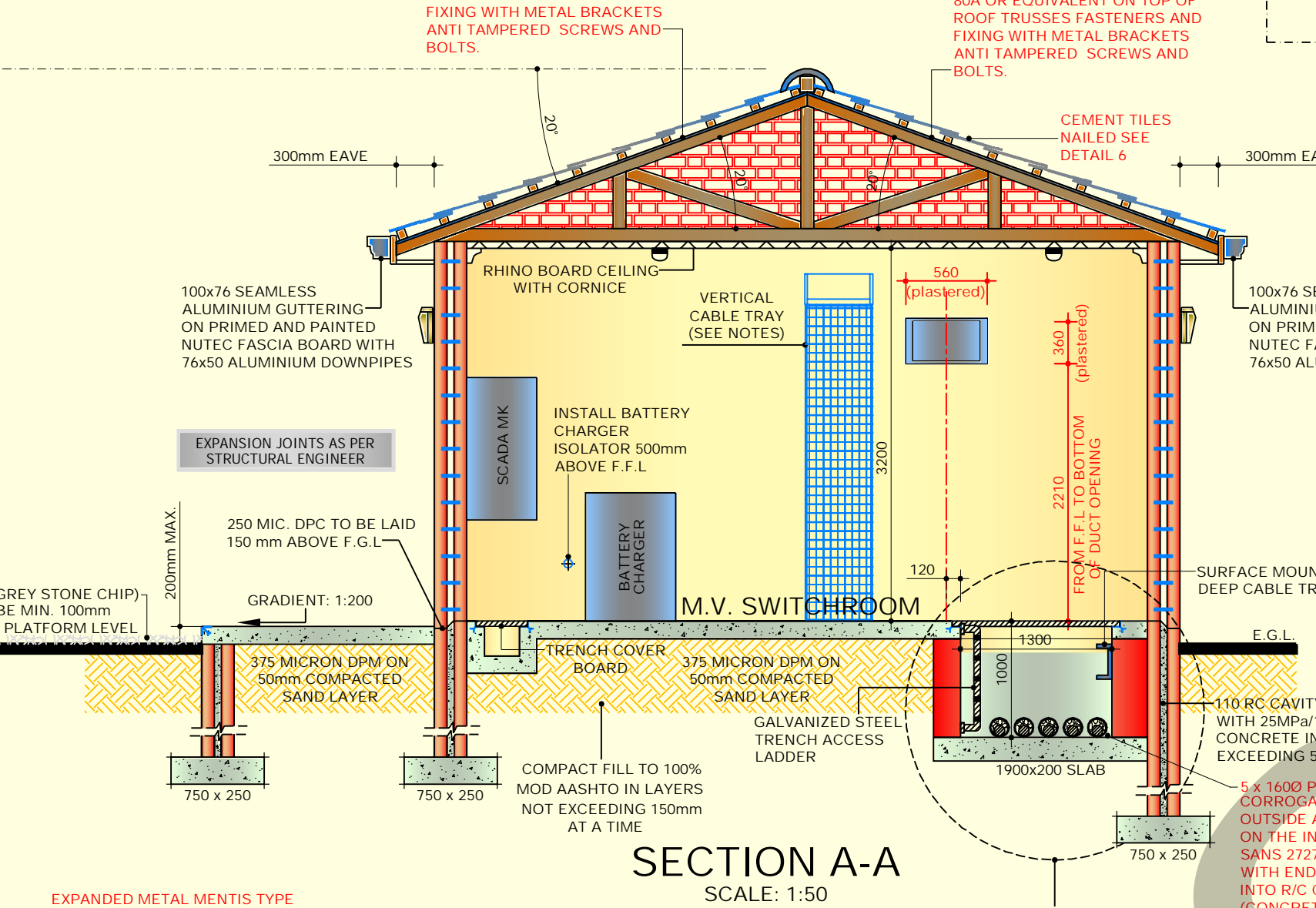
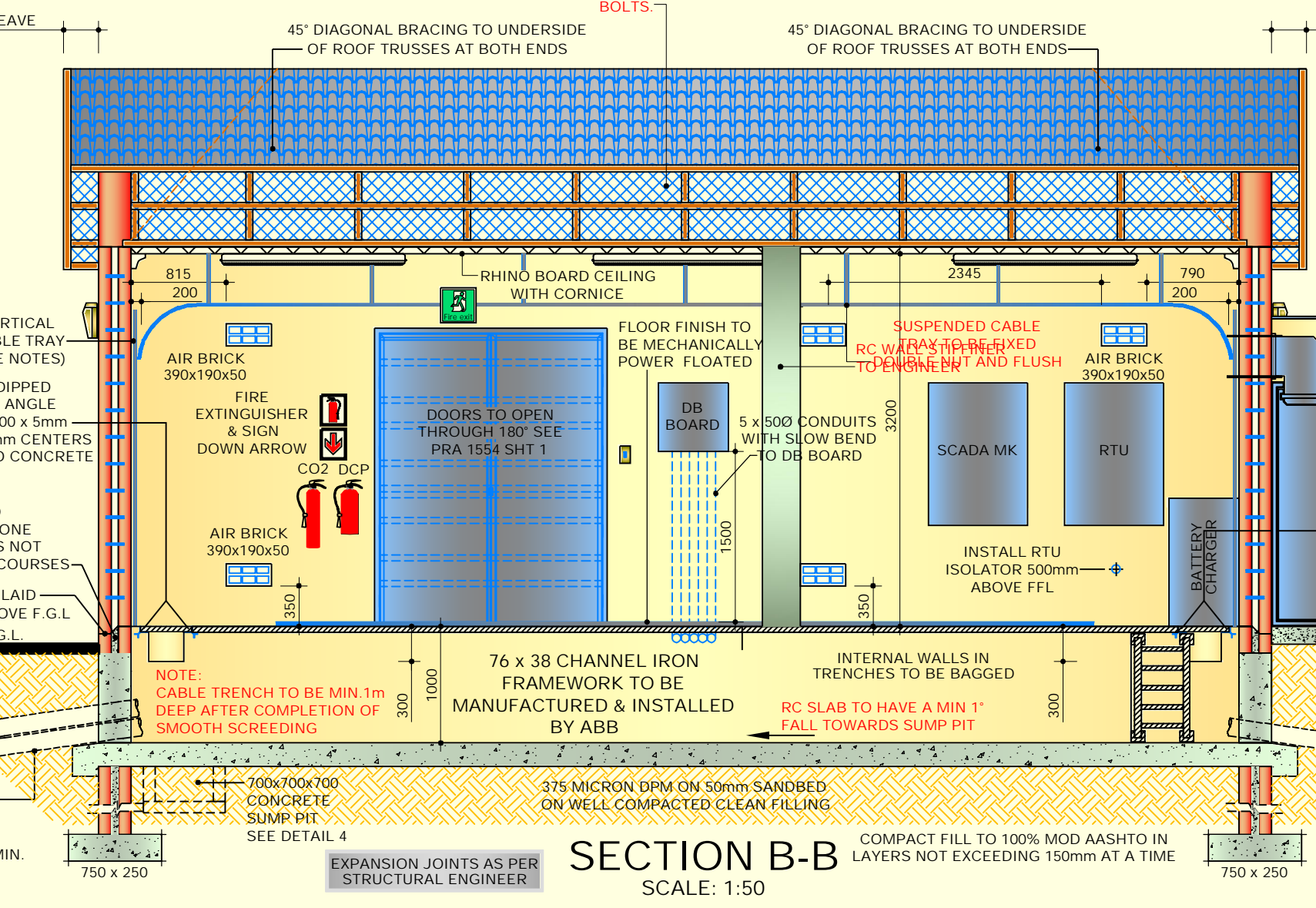


NOTE:
ANY DEVIATION FROM COCT STANDARD DRAWING
DURING CONSTRUCTION PERIOD WILL BE THE
RESPONSIBILITY OF THE CONSULTANT.

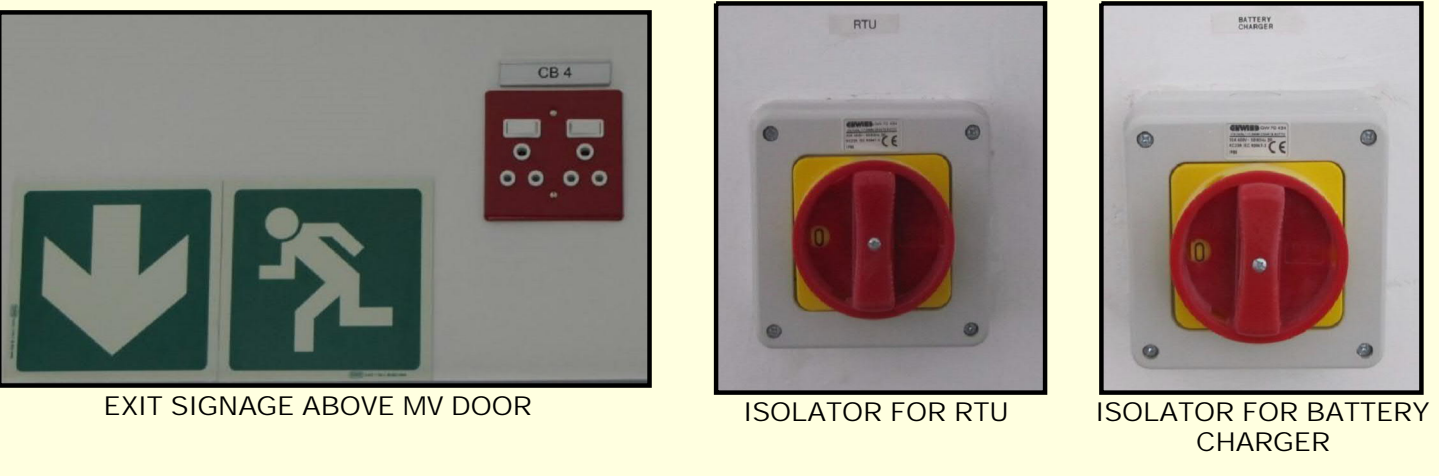
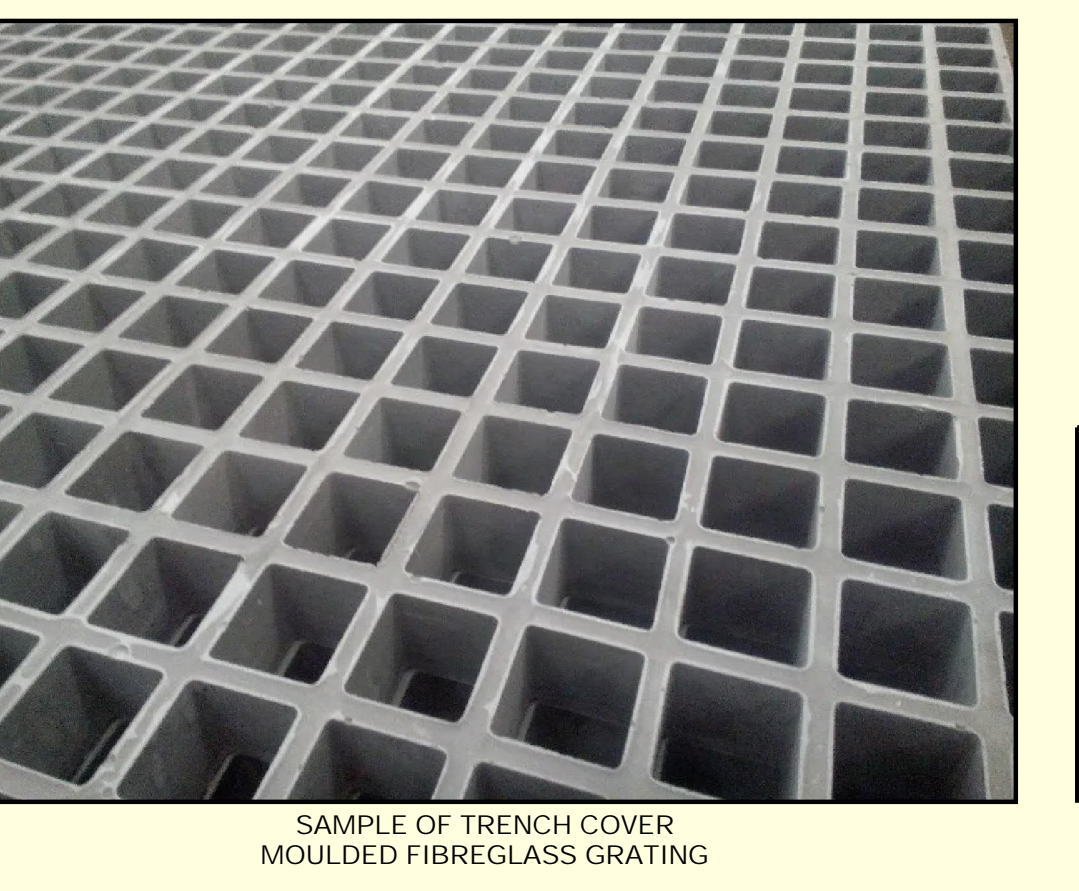
1. ALL ELECTRICAL LAYOUTS & EQUIPMENT AS PER ELECTRICAL ENGINEER'S SPECIFICATIONS.
2. EARTHING/EARTHING TO BE INSPECTED AND APPROVED PRIOR TO CASTING OF FLOOR SLAB (OFFICIAL) EGD.
3. ALL FOUNDATIONS, TRENCHES, TRUSSES/RAFTERS, FLOOR & SUSPENDED SLABS AS PER STRUCTURAL ENGINEER.
4. ALL PAVING & STORMWATER CHANNELLING AS PER CIVIL ENGINEER AS REQUIRED.
5. ALL VENTILATION & FIRE RELATED ISSUES AS PER MECHANICAL ENGINEER AS REQUIRED.
6. DRAWING TO BE READ IN CONJUNCTION WITH DETAILS, SCHEDULES & SPECIFICATIONS.



SUBSTATION DISTRIBUTION BOARD
SCHEMATIC (SEE NOTES)



- SITE SPECIFICATIONS**
- 1) ENTIRE SITE TO BE FENCE WITH 2.4m HIGH CLEAR/STEEL FENCING.
 - 2) SITE TO BE SUPPLIED WITH 4m MANUAL SLIDING GATE.
 - 3) E1 KERBING TO ALL BOUNDARIES OF SITE.
 - 4) W/ STORMWATER CHANNELS TO STREET.
 - 5) 19mm GRANITE STONE CHIP TO ENTIRE SITE AS INDICATED.
 - 6) PROVISIONS TO BE MADE FOR A 4m CARRIAGE WAY CROSSING.



NOTE:
CONSULTANT TO ISSUE CONCEPT DRAWING TO
ELECTRICITY OFFICIAL PRIOR TO SUBMISSION FOR
MUNICIPAL BUILDING PLAN APPROVAL.

NOTE:
CONSULTANT TO ISSUE MUNICIPAL APPROVED
BUILDING PLAN AND CONSTRUCTION DRAWING TO
ELECTRICITY OFFICIAL BEFORE ANY COMMENCE-
MENT OF CONSTRUCTION ON SITE.

REQUIREMENTS
Deem to Satisfy SANS 10400 Notes:

- SANS 10400 PART B STRUCTURAL**
Construction Works deem to satisfy SANS 2001 - Part CC1/CC2
1. As per Professional Structural Engineer design and specifications.
- SANS 10400 PART H FOUNDATIONS**
Construction Works deem to satisfy SANS 2001 - Part CM2
1. EGD conditions and foundation trenches to be approved by the Structural Engineer before casting of 2.50m foundation as per Structural Engineer's Specifications.
- SANS 10400 PART K WALLS**
Construction Works deem to satisfy SANS 2001 - Part CM1
1. Bricks shall be built according to the latest edition of SANS 10400-4.
2. All walls to be built with SABS approved 350mm, 200mm and 230mm clay masonry bricks (SABS 227) on concrete strip foundations and plastered internally or rendered. External walling to be brick laid zone 1 to 2. Golden Wheat Travelling FBK, Ardmore Heavy FBK, Silvergrey Travelling FBK, Wild Wheat Travelling FBK, Coastal and Red 4x4 Silvergrey Travelling FBK and Red Wheat Travelling FBK (directly supplied by Carbrick).
- CEILING:**
Construction Works deem to satisfy SANS 2001 - Part CM2
1. Bricks shall be built according to the latest edition of SANS 10400-4.
2. All walls to be built with SABS approved 350mm, 200mm and 230mm clay masonry bricks (SABS 227) on concrete strip foundations and plastered internally or rendered. External walling to be brick laid zone 1 to 2. Golden Wheat Travelling FBK, Ardmore Heavy FBK, Silvergrey Travelling FBK, Wild Wheat Travelling FBK, Coastal and Red 4x4 Silvergrey Travelling FBK and Red Wheat Travelling FBK (directly supplied by Carbrick).
- FLOOR SANS 10400 PART J:**
Construction Works deem to satisfy SANS 2001 - Part CC1 & CM2
1. RC slab on the ground foundations for masonry walls to engineers detail.
2. W/STORMWATER to have a mechanically power floated finish and shall be level +100mm with a max. tolerance of 3mm over entire length and width of the floor.
- CEILING:**
Construction Works deem to satisfy SANS 2001 - Part CM2
1. Bricks shall be built according to the latest edition of SANS 10400-4.
2. All walls to be built with SABS approved 350mm, 200mm and 230mm clay masonry bricks (SABS 227) on concrete strip foundations and plastered internally or rendered. External walling to be brick laid zone 1 to 2. Golden Wheat Travelling FBK, Ardmore Heavy FBK, Silvergrey Travelling FBK, Wild Wheat Travelling FBK, Coastal and Red 4x4 Silvergrey Travelling FBK and Red Wheat Travelling FBK (directly supplied by Carbrick).
- INTERNAL CEMENT PLASTER:**
Construction Works deem to satisfy SANS 2001 - Part CM1
1. Internal walls plastered to be smooth finish.
- DOORS:**
1. Door stop to be used on all doors see drawing PRA 835. Drop bolts to be fitted to all doors and to be installed in accordance with SANS 227 Part 1.
2. For double door details refer to drawing PRA 1554 sheet 1 rev 2.
3. W/STORMWATER to have a mechanically power floated finish and shall be level +100mm with a max. tolerance of 3mm over entire length and width of the floor.
- CABLE TRAY:**
1. As per detail supplied with moulded fibre glass grating as per PRA 210.
- SANS 10400 PART O VENTILATION**
Ventilation to be provided as shown on drawing.
- SANS 10400 PART R STORMWATER**
1. Storm water channels W/ST half pre-cast concrete to street.
2. W/STORMWATER to have a mechanically power floated finish and shall be level +100mm with a max. tolerance of 3mm over entire length and width of the floor.
- ELECTRICAL**
1. Electrical requirements this drawing to be read in conjunction with ELECTRICAL SPECIFICATION.
- PAINTING**
1. FILLER COAT and 2nd QUALITY GRADE WHITE PVA TO ALL PLASTERED SURFACES.
- SLEEVES:**
1. PVC Pipes shall be used as sleeves. The pipes shall be cut to length and smoothed on the ends as per SANS 227 Part 1.
2. The sleeves should not touch. There shall be a gap of at least 10mm between sleeves, to allow sufficient space for waterproofing as well as allowing concrete to be poured in between the sleeves.
3. The 1600 pipes should be positioned such that they do not increase the overall height and width of the building.
4. The sleeves shall be positioned at the edge, dropping to the outside of the building. This angle shall be between 5° to 15° to the approval of the engineer.
5. The pipes shall extend to the end cap can over the end with the rubber seal fully engaged on the pipe. The rubber seal shall be on both sides. The pipes shall not extend by more than 150mm outside the building.
- WATERPROOF SEAL ON THE OUTSIDE OF THE SLEEVES:**
1. Waterproofing shall be applied around the sleeves in such a way to prevent moisture leaking into the building interior or exterior structure. This shall be done by specialists in the field as approved by the engineer.
2. The product to be used should be selected to optimise the waterproofing seal around the sleeves.
3. A trench on the waterproofing around the sleeves is not recommended, due to the possibility of water seeping under the sleeves and the danger that the PVC pipes will get damaged by the trench.
4. A trench on the waterproofing around the sleeves is not recommended, due to the possibility of water seeping under the sleeves and the danger that the PVC pipes will get damaged by the trench.
- WATERPROOF SEAL INSIDE THE PIPE (WHERE SPECIFIED):**
1. All PVC pipes shall be installed before and after the installation of the cables, to prevent the ingress of water.
2. The pipes shall be installed in such a way that they are not subjected to any tension or stress of any shape and size. The wall assembly shall be a well approved waterproofing, smoke tight and gas tight system for the entire building. The penetration shall be able to seal against water and steam which are fire resistant. The system shall be able to seal any type of cable penetration, as well as any metallic, composite or plastic pipe penetration. The system can be used for single or multiple pipes, or any combination of pipes or cables through the same penetration.
3. The cable sealed system shall be able to facilitate installation of future cables or plastic pipes through the same aperture/penetration without having to disassemble and rebuild the entire installation.
- STANDARD DRAWING**
THE COPYRIGHT OF THIS PLAN AND DESIGN REMAINS WITH THE CITY OF CAPE TOWN AND MAY NOT BE REPRODUCED, ISSUED OR USED FOR ANY PURPOSE OTHER THAN THAT IT WAS INTENDED FOR ORIGINALLY.
- CITY OF CAPE TOWN**
R10000 SASEKAPA
STAD KAAPSTAD
- DRAWING & RECORDS CENTRE**
ARCHITECTURAL/MECHANICAL SECTION
HEAD OFFICE BELLERHOF ROAD
BELLERHOF, PRIVATE BAG 244 7555
- DIRECTOR: EGD**
MANAGER: ENGINEERING
HEAD: DRAWING & RECORDS CENTRE
- E. CAPE**
J. VAN DER MERWE
A. M. VAN ZYL
- PH (021) 444 8339**
- PROJECT TITLE**
PROPOSED STANDARD SUBSTATION
11 PANEL (CEMENT TILE - PITCH ROOF)
COMPACT DUCT
(STANDARD SUBSTATION)
- APPROVED BY:**
COMPILED: N.WAGGIE
SCALE: AS SHOWN
DRAWING NO: PRA: 2300
- CHECKED**
DATE: 25/11/2024
SHEET: 1 OF 1
REVISION NO: 19
SHEET SIZE: A0