

TRIOLET ROOFTOP PV FARM

DRAWING REGISTER & ISSUE	
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Project: Triolet Roof Top PV Farm			
Job No : 21/1021	Date		Page: 1

Page: 1

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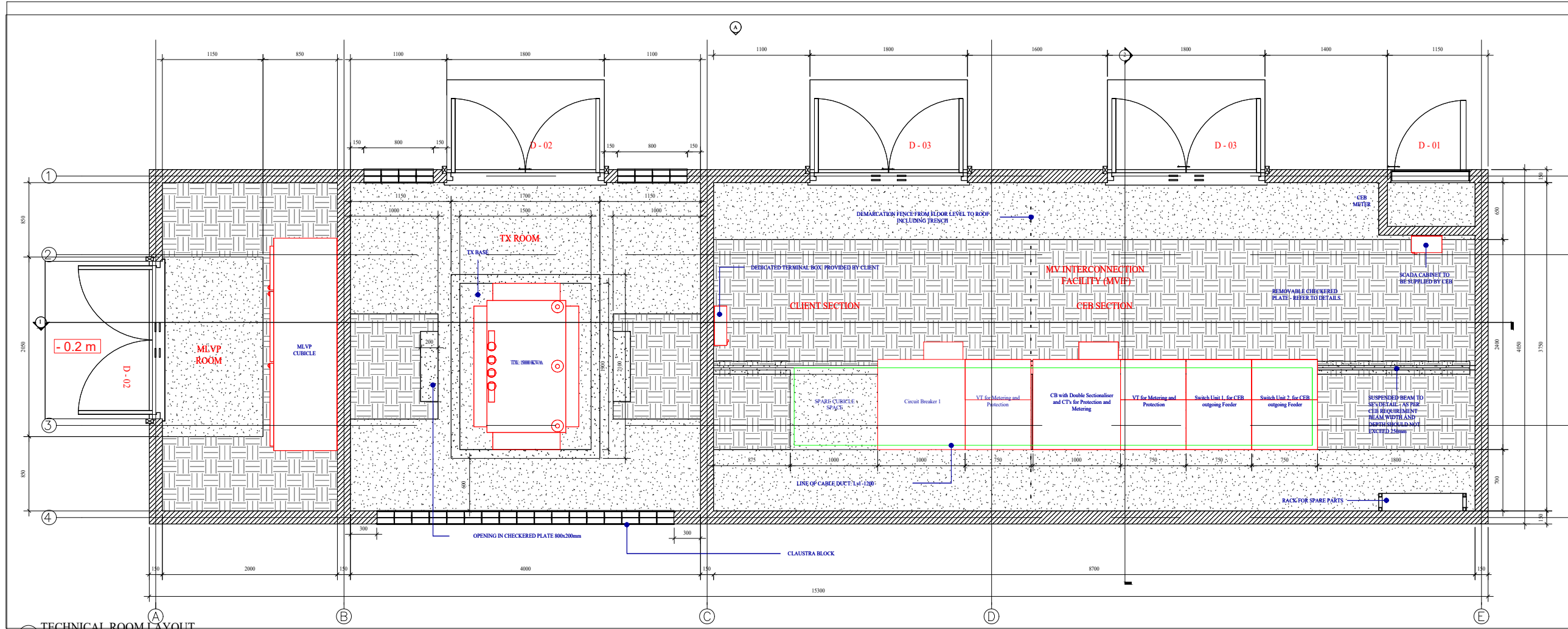
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Architect								
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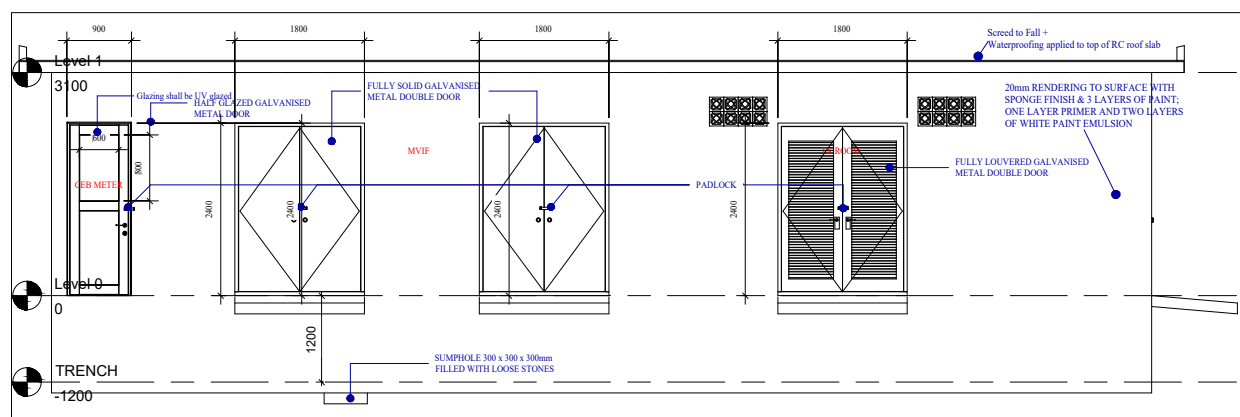
Stage: A = For Approval, BP= Building Permit, C = For construction, P = Preliminary, T = Tender, I = Information

Date: 30 June 2022

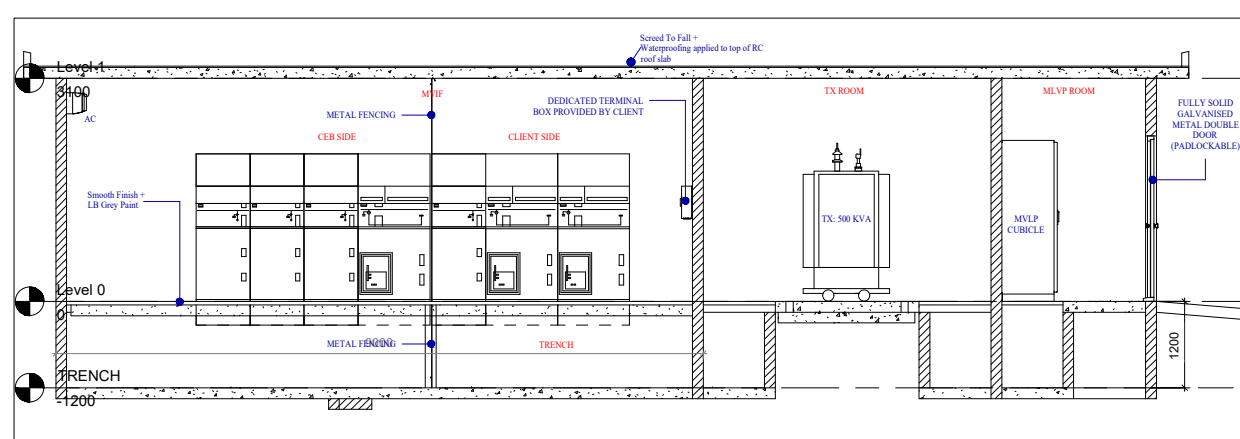
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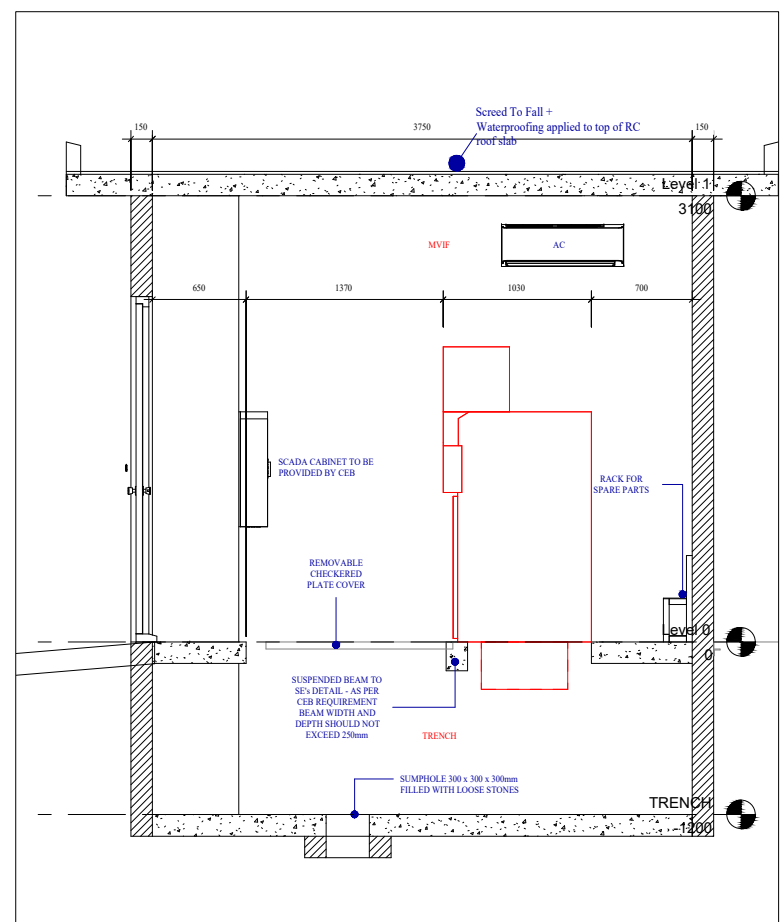
0 TECHNICAL ROOM LAYOUT
1:25



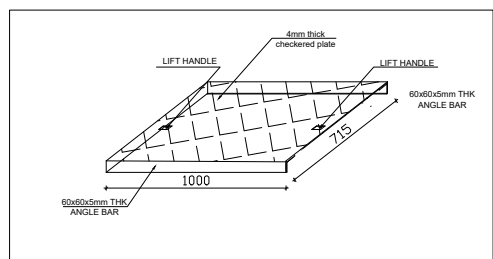
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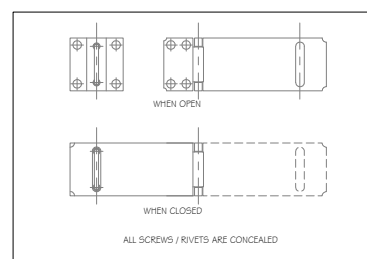
1 SECTION 1
1:50



2 SECTION 2
1:25



3 DETAIL OF REMOVABLE CHECKERED PLATE
NTS



4 DETAILS OF PADLOCK FACILITIES
NTS

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- LEGEND
- GENERAL NOTES:
1. PROVIDE FOR RAINWATER DRAINING
 2. ALLOW FOR AC IN THE MV INTERCONNECTION FACILITY (MVIF)

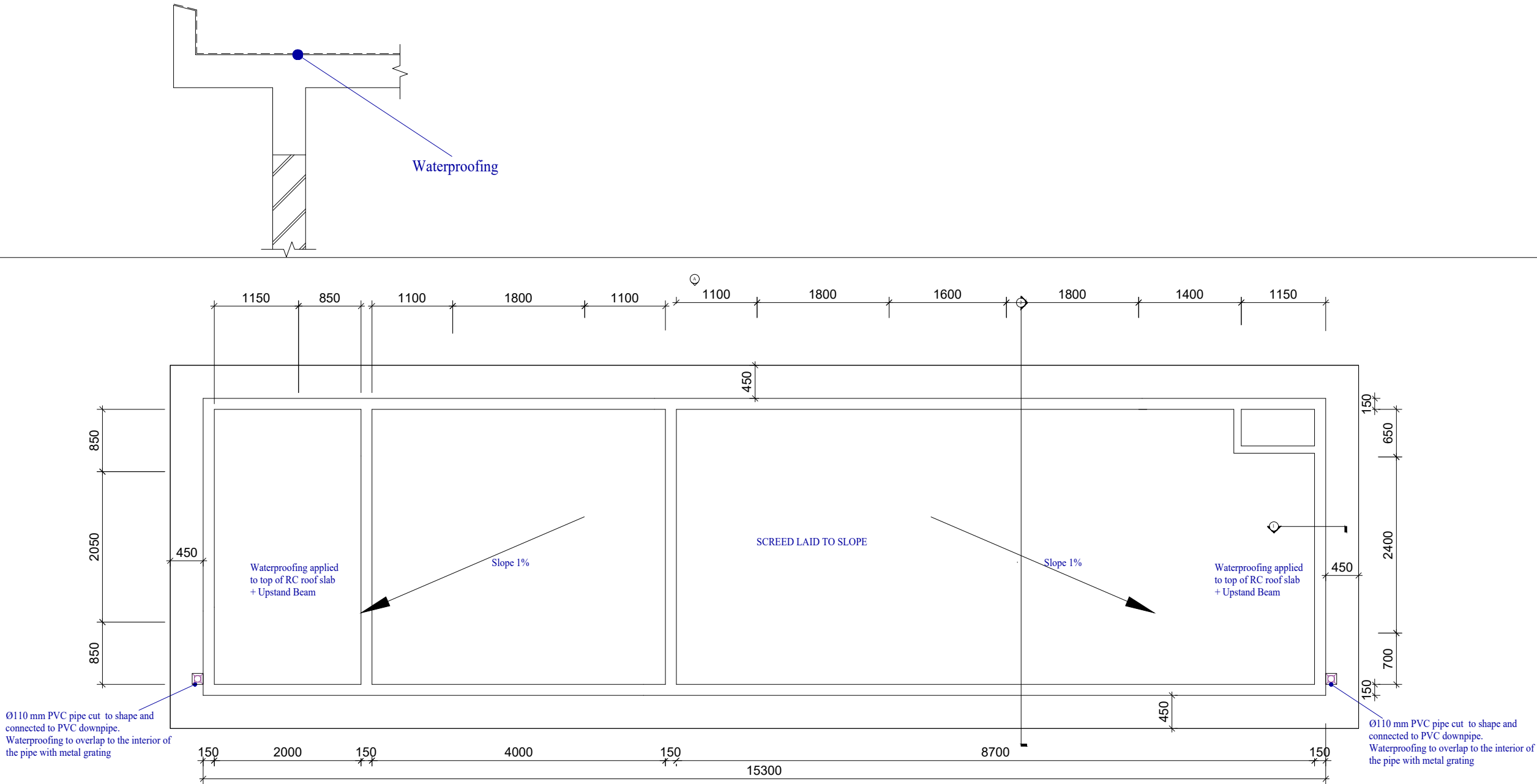
DATE	REVISION	DESCRIPTION	ISSUED BY
Digi Consult			
CONSULTING ENGINEER			
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TEL: (+230) 460 1736/37 FAX: (+230) 463 3435			
ARCHITECT	BDM ENERGY LTD		
STRUCTURAL ENGINEER			
CLIENT	BDM ENERGY LTD		
PROJECT NAME	TRIOLET ROOFTOP PV FARM		
SHEET DESCRIPTION	TECHNICAL ROOM LAYOUT AND SECTIONS		
DRAWING STATUS			
DRAWING REF 1	DRAWING NO.	REVISION	
DRAWING REF 2	DRAWING NO.	REVISION	
DRAWN BY	CHECKED BY	APPROVED BY	
RC	SR	VM	
DATE	PAPER SIZE	SCALE	
27.06.22	A1	As indicated	
PROJECT No.	DRAWING No.	REVISION	
19026	E-TR-P101	T1	

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LEGEND

GENERAL NOTES:

1. PROVIDE FOR RAINWATER DRAINING
2. ALLOW FOR AC IN THE MV INTERCONNECTION FACILITY (MVIF)



DATE - REVISION - DESCRIPTION - ISSUED BY

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CONSULTING ENGINEER
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ARCHITECT/ID

STRUCTURAL ENGINEER

CLIENT

BDM ENERGY LTD

PROJECT NAME

TRIOLET ROOFTOP PV FARM

SHEET DESCRIPTION

ROOF LAYOUT

DRAWING STATUS

DRAWING REF 1	DRAWING NO.	REVISION
DRAWING REF 2	DRAWING NO.	REVISION
DRAWN BY RC	CHECKED BY SR	APPROVED BY VM
DATE 27.06.22	PAPER SIZE A1	SCALE As indicated
PROJECT No. 19026	DRAWING No. E-TR-P102	REVISION T1

MORE NO

General Notes

- G1.

The Engineer's drawings are to be read in conjunction with all ARCHITECT and other CONSULTANTS drawings, specifications and with such other written instruction as may be issued during the course of the contract. All discrepancies shall be referred to the Engineer for decision before proceeding with the works and/or ordering of materials.
- G2.

All dimensions relevant to setting out and off site work shall be verified by the contractor before construction and fabrication is commenced. The drawings shall not be scaled.
- G3.

Workmanship and materials are to be in accordance with the relevant Mauritian standards or British Standards [in absence of Mauritian Standards] and local statutory authorities regulations.
- G4.

During construction the contractor shall be responsible for maintaining the structure in a stable condition and ensuring no part shall be overstressed under construction activities.
- G5.

The written approval of a substitution of material along with the costs implications, if any, shall be sought by the Contractor from the Engineer before proceeding with work and/or ordering materials.
- G6.

All dimensions are in millimetres unless stated otherwise. All levels are expressed in metres.

FOUNDATION

- F1.

All materials and workmanship shall be in accordance with BS 8004 Code of Practice for Foundations where not inconsistent with "Engineer's Specification for Excavation,Underfloor/Hardcore Filling".
- F2.

Pad and strip footing shall be founded at depth below ground level shown on the drawings or as instructed on site Engineers. Written approval is required before blinding of any foundation.
- F3.

Temporary supporting works for excavation and dewatering shall be Contractor's responsibility. Details and Calculations for this to be submitted for Engineer's written approval before commencement of works.

STRUCTURAL CONCRETE

- C1.

All workmanship and materials shall be in accordance with BS 8110 - The Structural Use of Concrete. where not inconsistent with "Engineer's Specification for Concrete."
- C2.

Construction of water retaining structure shall be in accordance with BS 8007 - Concrete structures for retaining aqueous liquids where not inconsistent with "Engineer's Specification for Concrete".
- C3.

Minimum cover (mm) to all reinforcement unless otherwise shown shall be as

Element	Cover(mm)
(a) Foundation against earth face	75
(b) Foundation against blinding	50
(c) Column > 200mm	35
≤ 200mm	30
(d) Ground beams	35
(e) Beams and walls	35
(f) Slab on fill	30
(g) Suspended slabs	25

- C4.

Sizes of concrete elements do not include thickness of applied finishes.
- C5.

Beam depths are written first and include slab thickness.
- C6.

No holes, chases or embedment of pipes other than those shown on the structural drawings shall be made to concrete members without prior written approval of the Engineer.
- C7.

Shop drawings for formwork including the location of shoring and reshoring and also calculation for its design when specifically asked; shall be submitted for a written approval by the Engineer
- C8.

Construction joints shall be properly formed as specified and made only where shownon the structural drawings or specifically approved by the Engineer. They shall be reinforced as shown on this drawings
- C9.

Reinforcement is represented diagrammatically and not necessarily shown in true projection.
- C10.

Splices in reinforcement shall be made only in the positions shown or as otherwise approved by the Engineer.
- C11.

Welding of reinforcement and /or use of approved couplers with threaded bars shall not be permitted without the approval of the Engineer.
- C12.

All reinforcement shall be securely supported in its correct position during concreting by approved bar chairs, spacers or support bars.

- C13.

Reinforcement shall be checked by the Engineer and a written approval. of the Engineer should be obtained before concreting.
- C14.

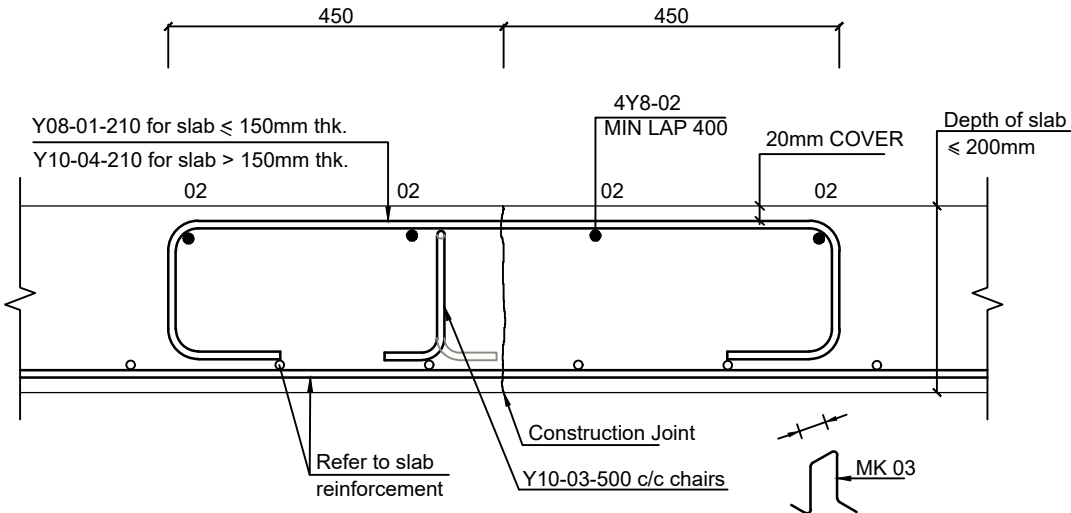
Reinforcement symbols

All reinforcement to comply with MS 10 Mauritian standard for steel bars for the reinforcement of concrete.
T - Hot rolled deformed bar - grade 460 (i.e minimum yield strength 460 N/mm2)
R - Structural grade mild steel plain round bar - grade 250(i.e minimum yield strength 250 N/mm2)

The number following the bar symbol is the nominal bar diameter in millimetres.
- C13.

Concrete grades shall be as follows unless shown otherwise on drawings:-

Element	Grade of Concrete	Fcu (Mpa)
All structural concrete Unless otherwise specified	30/20	30



DETAIL OF SLAB AT CONSTRUCTION JOINT

CONCRETE BLOCKWORK LOAD BEARING WALLS & EXTERNAL WALL

- B1.

All workmanship and materials shall be in accordance with BS 5628 -Part 1 Code of practice for use of masonry where not inconsistent with "Engineer's Specification for Blockwork."
- B2.

Concrete block shall be manufactured in accordance with BS 6073 - Precast concrete masonry units. They shall be cellular blocks with average compressive strength of 3.5N/mm2 unless otherwise specified. Size of concrete block shall be 457 x 203 x 200 thick or 150 thick unless otherwise specified.
- B3.

The mortar for laying blocks shall consist of 1 part Portland cement : 3 to 4 parts of washed sand and an approved plasticiser unless otherwise specified.
- B4.

Brick reinforcement to masonry blockwall shall be as shown on the drawings.
- B5.

Reinforced concrete infill to blockwork where required shall be of Fcu 20 Mpa, with reinforcement as specified.
- B6.

Load bearing concrete blockwalls shall comply with BS 5628 Part-"Structural Use of Unreinforced Masonry" where not inconsistent with "Engineer's Specification for Blockwork".

Designed VD	Drawn V.D	Checked VD	Passed VD	Date Jun. 2022	Scale
Revision Note				Mark	Date
					By

- NOTES

1.

This drawing to be read in conjunction with all relevant Architect's and M & E Engineer's drawings.

2.

Dimensions must not be scaled or assumed. After Notification, discrepancies or missing dimensions will be corrected in writing by the Engineer.

2.

All excavations for foundations to be inspected and approved by the Engineer before casting of blinding concrete.

3.

A soil bearing capacity of 200 kN/m2 was assumed to design the bases.

The Engineer reserves the right to change the size of the bases, during trial pits or excavation if he considers the assumed soil bearing capacity is not appropriate.

4.

All columns are centred on the bases, unless otherwise noted.

5.

Concrete strength at 28 days to be as follows:
a) Foundations Grade 30Mpa
b) Columns Grade 30Mpa
c) Surface Beds Grade 30Mpa
d) Walls Grade 30Mpa
e) Beams Grade 30Mpa
f) Slabs Grade 30Mpa

5.

Grade 15Mpa blinding concrete to be cast under all foundations, strip footings and ground-bearing slabs.

6.

LEGEND.
COLUMNS AND WALL SHOWN THUS:

ARE UNDER
ARE OVER
ARE UNDER AND OVER

7.

This Drawing Should Be Read In Conjunction With Drawing No.

8.

Cover to bars; Foundation– Bases, Strip Footing –50
Column –30
Top Mesh –35
Beams [to links Bottom ,Top] –30
Beams [to links Sides] –30
Slab[Top and Bottom] –25

PROJECT
TRIOLET
ROOFTOP PV FARM

CLIENT
BDM Energy Ltd

DRAWING TITLE
GENRAL NOTES
(SHEET 1)

V . Dabee Engineers

Consulting Engineer

CRPE No.: 688

27 Marcel Ducasse Street, Beau Bassin

Mob: 59419005

VAT: 17252628

BRN: I13007370

Job Number/Drawing Number

21/1021/S001

Revision

T1

STRUCTURAL STEELWORK

- S1. All workmanship and materials shall be in accordance with BS 5950 - The Structural use of Steelwork in Buildings where not inconsistent with "Engineer's Specification for Structural Steelwork."
- S2. Welding shall be performed by an experienced operator in accordance with BS 4870 (Part 1) - Fusion welding of steel. All welding rods shall comply with BS 639 and general requirements for metal Arc welding for mild steel shall comply with BS 5135
- S3. Bolts not designated shall be grade 8.8. All bolts shall conform to BS 4190 and / or BS 3692 as, appropriate and shall be hot dipped galvanised to BS 729 with minimum coating of 600 gms/m2.
- S4. Metal washers will be provided on both sides of the member with bolts and shall comply with BS 4320 and shall be hot dipped galvanised to BS 729 (600gms/m2) i.e 85 microns on each face.
- S5. The contractor shall provide and leave in place until permanent bracing elements are constructed such temporary bracing as is necessary to stabilize the structure during erection.
- S6. Unless otherwise specified all steelwork shall be hot dipped galvanised to a minimum thickness of 85 microns.
- S7. The ends of all tubular members are to be sealed with nominal thickness plates and continuous fillet weld unless otherwise shown.
- S8. Except where otherwise shown welds to be 6 mm continuous fillet.


STRUCTURAL TIMBERWORK


- T1. Hardwood shall comply with BS 5756 Part 5- Specification for tropical Hardwood for Structural Use unless otherwise stated.Hardwood shall be of HS Grade Strength Class D60-D70.
- T2. Softwood shall comply with BS 4978 - Specification for Softwood for Structural Use unless otherwise stated,Softwood shall be of SS Grade Strength Class C22-C24.
- T3. All workmanship and materials shall be in accordance with BS 5268 Part 2-Structural Use of Timber Code of Practice for permissible stress design, materials and workmanship where not inconsistent with "Engineer's Specification for Timber
- T4. Metal connectors shall comply to BS 1579-Specification for Connectors for Timber
- T5. Screws and Steel nails for fixing shall comply to BS 1210-Specification for Wood Screws and BS 1202 Part 1- Specification for Steel nails respectively
- T6. For Metalworks i.e plates,welding,bolts,washers/connectors the notes of structural steelwork above shall apply.


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Revision Note				Mark	Date By

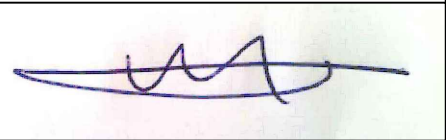
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2. All excavations for foundations to be inspected and approved by the Engineer before casting of blinding concrete.
3. A soil bearing capacity of 200 kN/m2 was assumed to design the bases.

The Engineer reserves the right to change the size of the bases, during trial pits or excavation if he considers the assumed soil bearing capacity is not appropriate.
4. All columns are centred on the bases, unless otherwise noted.
5. Concrete strength at 28 days to be as follows:
a) Foundations Grade 30Mpa
b) Columns Grade 30Mpa
c) Surface Beds Grade 30Mpa
d) Walls Grade 30Mpa
e) Beams Grade 30Mpa
f) Slabs Grade 30Mpa
5. Grade 15Mpa blinding concrete to be cast under all foundations, strip footings and ground-bearing slabs.
6. LEGEND.
COLUMNS AND WALL SHOWN THUS:

ARE UNDER 

ARE OVER 

ARE UNDER AND OVER 
7. This Drawing Should Be Read In Conjunction With Drawing No.
8. Cover to bars; Foundation– Bases, Strip Footing –50
Column –30
Top Mesh –35
Beams [to links Bottom ,Top] –30
Beams [to links Sides] –30
Slab[Top and Bottom] –25



PROJECT
TRIOLET
ROOFTOP PV FARM

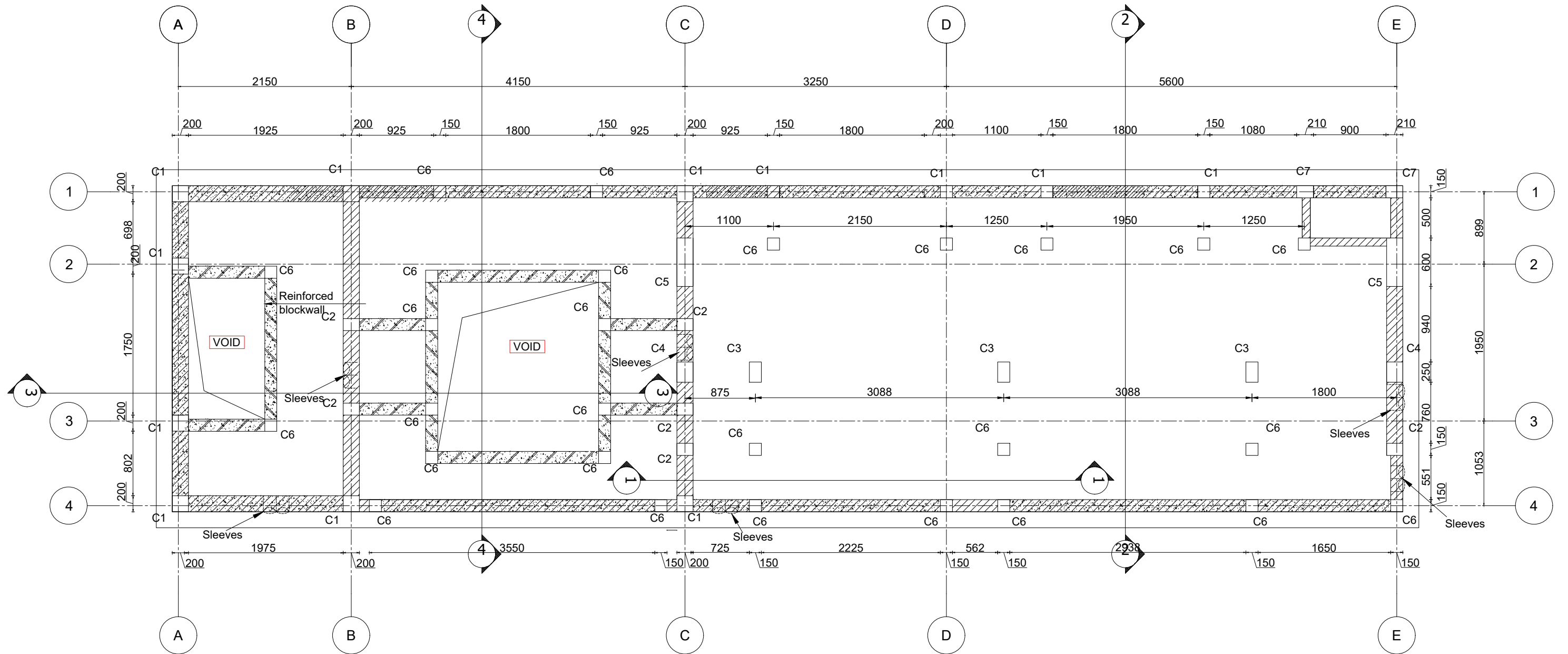
CLIENT
BDM Energy Ltd

DRAWING TITLE
GENRAL NOTES
(SHEET 2)

V . Dabee Engineers
Consulting Engineer
CRPE No.: 688
27 Marcel Ducasse Street, Beau Bassin
Mob: 59419005
VAT: 17252628
BRN: I13007370

Job Number/Drawing Number
21/1021/S002

Revision
T1



PROJECT
Triolet Rooftop PV farm

CLIENT
BDM Energy Ltd

Title
Foundation Layout

Notes

- This drawing to be read in conjunction with all relevant Architects and M & E Engineer's drawings.
- Dimensions must not be scaled or assumed. After Notification, discrepancies or missing dimensions will be corrected in writing by the Engineer.
- All excavations for foundations to be inspected and approved by the Engineer before casting of blinding concrete.

4. Cover to bars; mm
- | | |
|-----------------------|-----|
| Foundation | -50 |
| Column \leq 200mm | -30 |
| Column $>$ 200mm | -35 |
| Top Mesh | -35 |
| Beams to links | -30 |
| Slab[Top and Bottom] | -25 |

5. Concrete strength at 28 days to be as follows:

- | | |
|-----------------|-------------|
| a) Foundations | Grade 30Mpa |
| b) Columns | Grade 30Mpa |
| c) Surface Beds | Grade 30Mpa |
| d) Walls | Grade 30Mpa |
| e) Beams | Grade 30Mpa |
| f) Slabs | Grade 30Mpa |

6. Grade 15Mpa blinding concrete to be cast under all foundations, strip footings and ground-bearing slabs.

6. LEGEND.

COLUMNS AND WALL SHOWN THUS:

ARE UNDER



ARE OVER



ARE UNDER AND OVER



7. All columns are centred on the bases, unless otherwise noted.

Revision Note		Mark	Date	By
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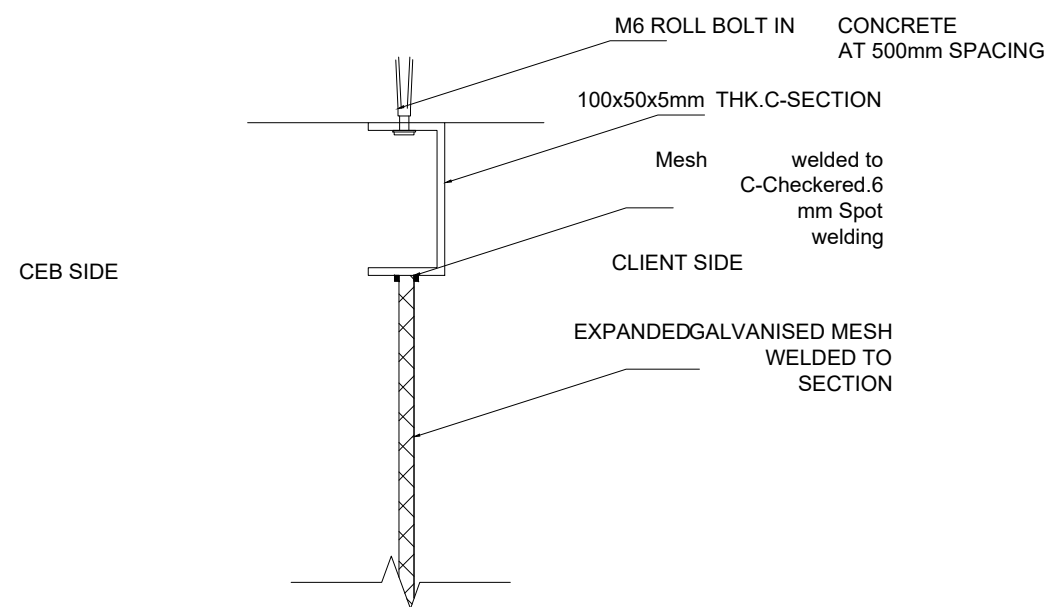
V. Dabee Engineers
Consulting Engineer

CRPE No.: 688
27 Marcel Ducasse Street, Beau Bassin
Mob: 59419005
VAT: 17252628
BRN: 113007370

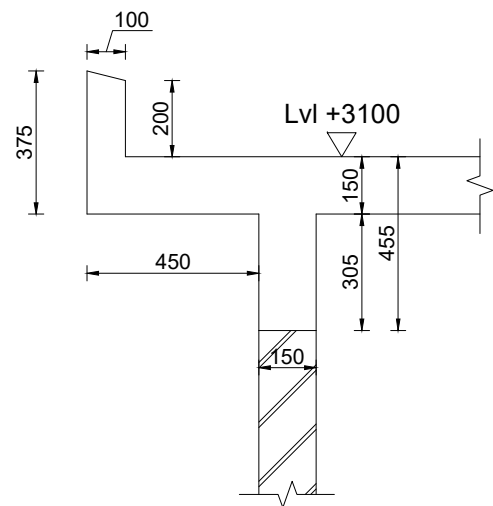
Job Number/Drawing Number
21/1021/L001

Revision
T1

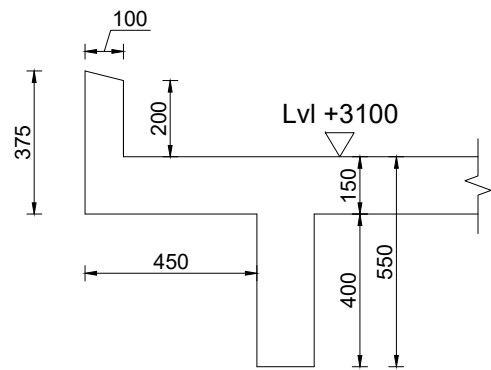
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Lvl +0.00								
Lvl -1.200								
		C1	C2	C3	C4	C5	C6	C7



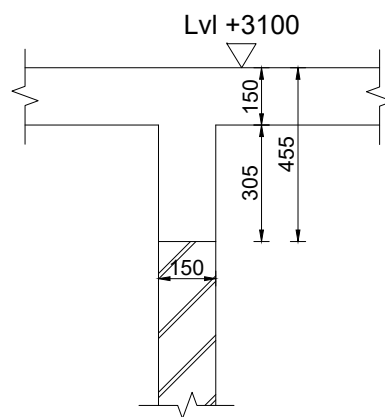
PROJECT Triolet Rooftop PV farm	<div>Notes</div> <div>1. This drawing to be read in conjunction with all relevant Architect,s and M & E Engineer's drawings.</div> <div>2. Dimensions must not be scaled or assumed. After Notification, discrepancies or missing dimensions will be corrected in writing by the Engineer.</div> <div>3. All excavations for foundations to be inspected and approved by the Engineer before casting of blinding concrete.</div>	<div>4. Cover to bars; Foundation</div> <div>Column ≤ 200mm</div> <div>Column > 200mm</div> <div>Top Mesh</div> <div>Beams to links</div> <div>Slab[Top and Bottom]</div> <div>mm</div> <div>-50</div> <div>-30</div> <div>-35</div> <div>-35</div> <div>-30</div> <div>-25</div>	<div>5. Concrete strength at 28 days to be as follows:</div> <div>a) Foundations Grade 30Mpa</div> <div>b) Columns Grade 30Mpa</div> <div>c) Surface Beds Grade 30Mpa</div> <div>d) Walls Grade 30Mpa</div> <div>e) Beams Grade 30Mpa</div> <div>f) Slabs Grade 30Mpa</div> <div>6. Grade 15Mpa blinding concrete to be cast under all foundations, strip footings and ground-bearing slabs.</div>	<div>6. LEGEND.</div> <div>COLUMNS AND WALL SHOWN THUS:</div> <div>ARE UNDER</div> <div>ARE OVER</div> <div>ARE UNDER AND OVER</div> <div>7. All columns are centred on the bases, unless otherwise noted.</div>	<table><tr><th colspan="2">Revision Note</th><th>Mark</th><th>Date</th><th>By</th></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table> <table><tr><th>Designed VD</th><th>Drawn V.L</th><th>Checked VD</th><th>Passed VD</th><th>Date Jun 2022</th><th>Scale 1:75</th></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Revision Note		Mark	Date	By																																				Designed VD	Drawn V.L	Checked VD	Passed VD	Date Jun 2022	Scale 1:75							<div>V . Dabee Engineers Consulting Engineer</div> <div>CRPE No.: 688</div> <div>27 Marcel Ducasse Street, Beau Bassin</div> <div>Mob: 69419005</div> <div>VAT: 17252628</div> <div>BRN: 113007370</div> <div>Job Number/Drawing Number</div> <div>21/1021/L003</div> <div>Revision</div> <div>T1</div>
Revision Note		Mark	Date	By																																																						
Designed VD	Drawn V.L	Checked VD	Passed VD	Date Jun 2022	Scale 1:75																																																					
CLIENT BDM Energy Ltd																																																										
Title Column Schedule & Fence Fixing Details																																																										



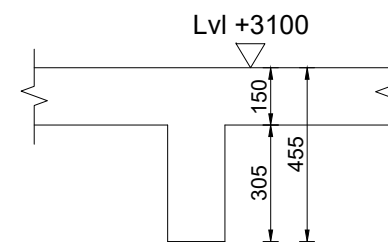
SECTION 1 - 1



SECTION 2 - 2



SECTION 3 - 3



SECTION 4 - 4

PROJECT
Triolet Rooftop PV farm

CLIENT
BDM Energy Ltd

Title
Roof Sections

Notes

- This drawing to be read in conjunction with all relevant Architect's and M & E Engineer's drawings.
- Dimensions must not be scaled or assumed. After Notification, discrepancies or missing dimensions will be corrected in writing by the Engineer.
- All excavations for foundations to be inspected and approved by the Engineer before casting of blinding concrete.

4. Cover to bars;	mm
Foundation	-50
Column \leq 200mm	-30
Column $>$ 200mm	-35
Top Mesh	-35
Beams to links	-30
Slab[Top and Bottom]	-25

- Concrete strength at 28 days to be as follows:

a) Foundations	Grade 30Mpa
b) Columns	Grade 30Mpa
c) Surface Beds	Grade 30Mpa
d) Walls	Grade 30Mpa
e) Beams	Grade 30Mpa
f) Slabs	Grade 30Mpa
- Grade 15Mpa blinding concrete to be cast under all foundations, strip footings and ground-bearing slabs.

6. LEGEND.

COLUMNS AND WALL SHOWN THUS:

- ARE UNDER 
- ARE OVER 
- ARE UNDER AND OVER 

- All columns are centred on the bases, unless otherwise noted.

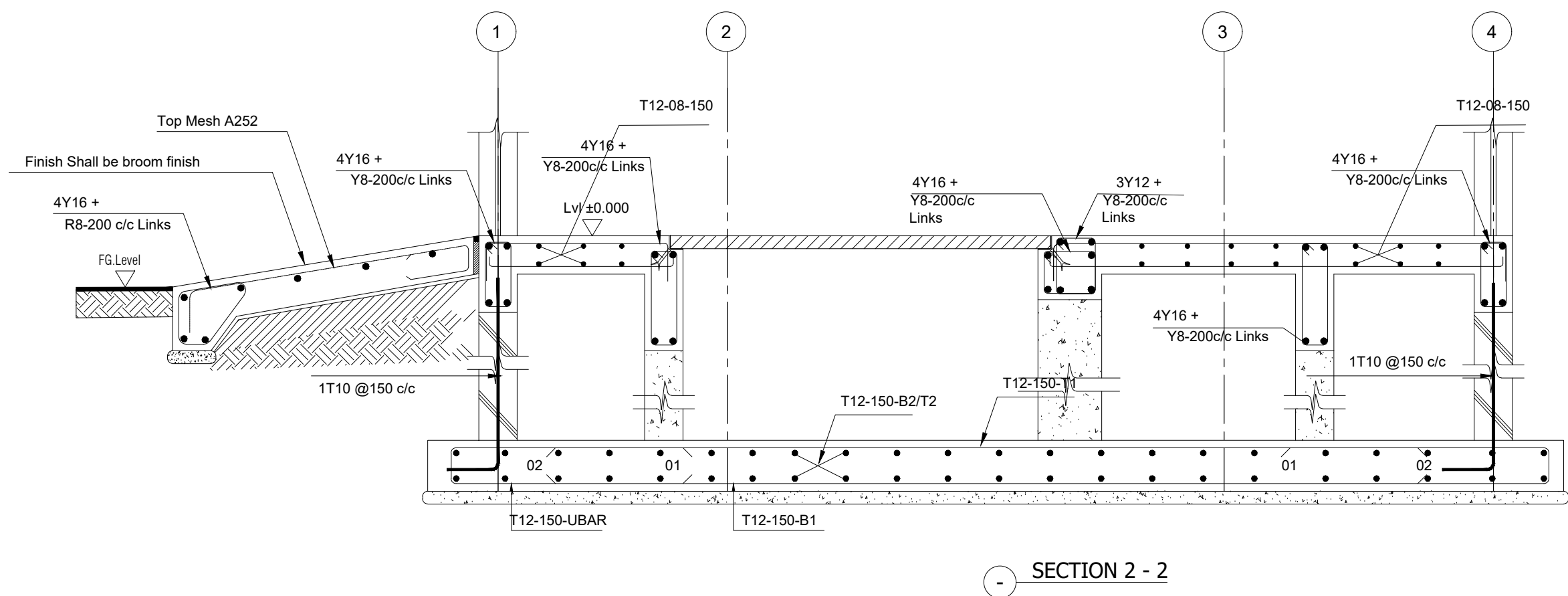
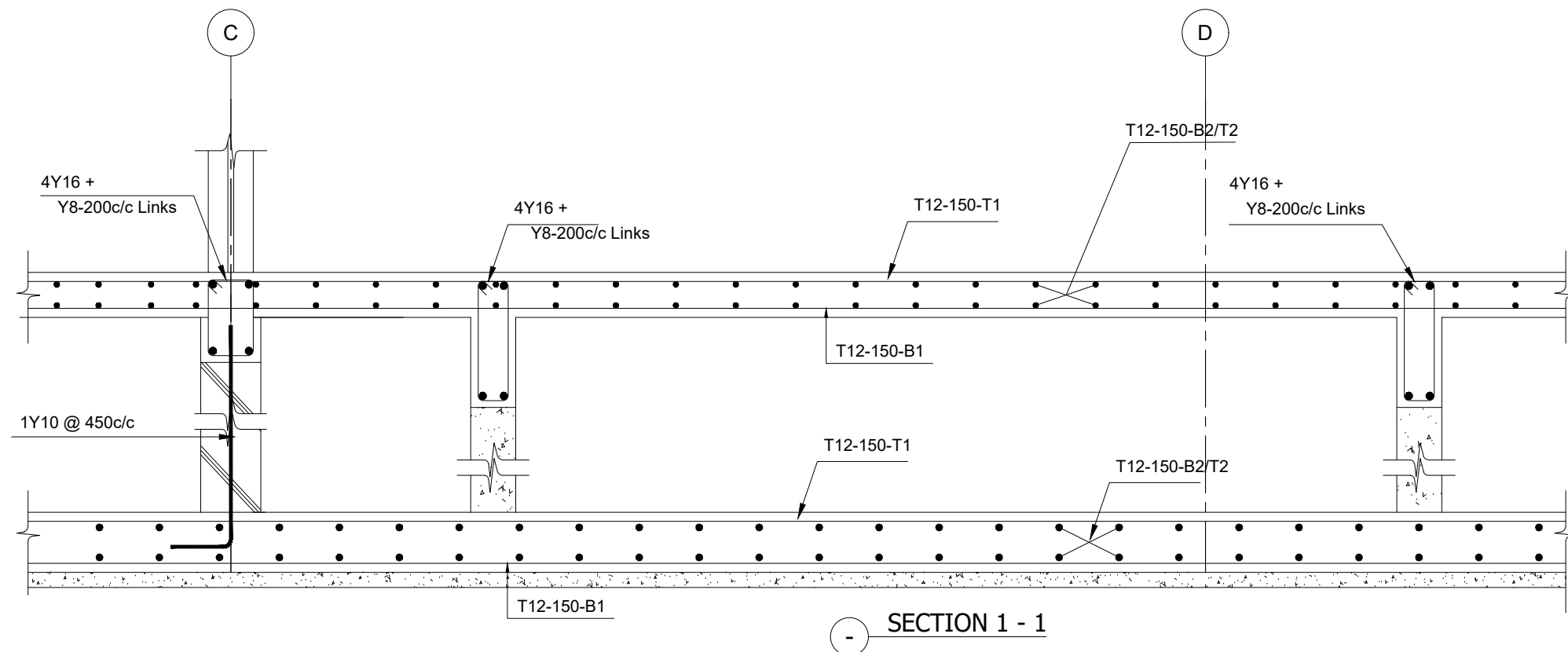
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Scale 1:75				

V . Dabee Engineers
Consulting Engineer

CRPE No.: 688
27 Marcel Ducasse Street, Beau Bassin
Mob: 59419005
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BRN: 113007370

Job Number/Drawing Number
21/1021/L007

Revision
T1






PROJECT	Triolet Rooftop PV farm
CLIENT	BDM Energy Ltd
Title	Ground Floor Details (Sheet 1)

- | | |
|---|---|
| Notes | 4 |
| <ol style="list-style-type: none"> 1. This drawing to be read in conjunction with all relevant Architect, s and M & E Engineer's drawings. 2. Dimensions must not be scaled or assumed. After Notification, discrepancies or missing dimensions will be corrected in writing by the Engineer. 3. All excavations for foundations to be inspected and approved by the Engineer before casting of blinding concrete. | |

- | | |
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| Foundation | -50 |
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| Slab[Top and Bottom] | -25 |

5. Concrete strength at 28 days to be as follows:
- | | | |
|-----------------|-------|-------|
| a) Foundations | Grade | 30Mpa |
| b) Columns | Grade | 30Mpa |
| c) Surface Beds | Grade | 30Mpa |
| d) Walls | Grade | 30Mpa |
| e) Beams | Grade | 30Mpa |
| f) Slabs | Grade | 30Mpa |
6. Grade 15Mpa binding concrete to be cast under all foundations, strip footings and ground-bearing slabs.

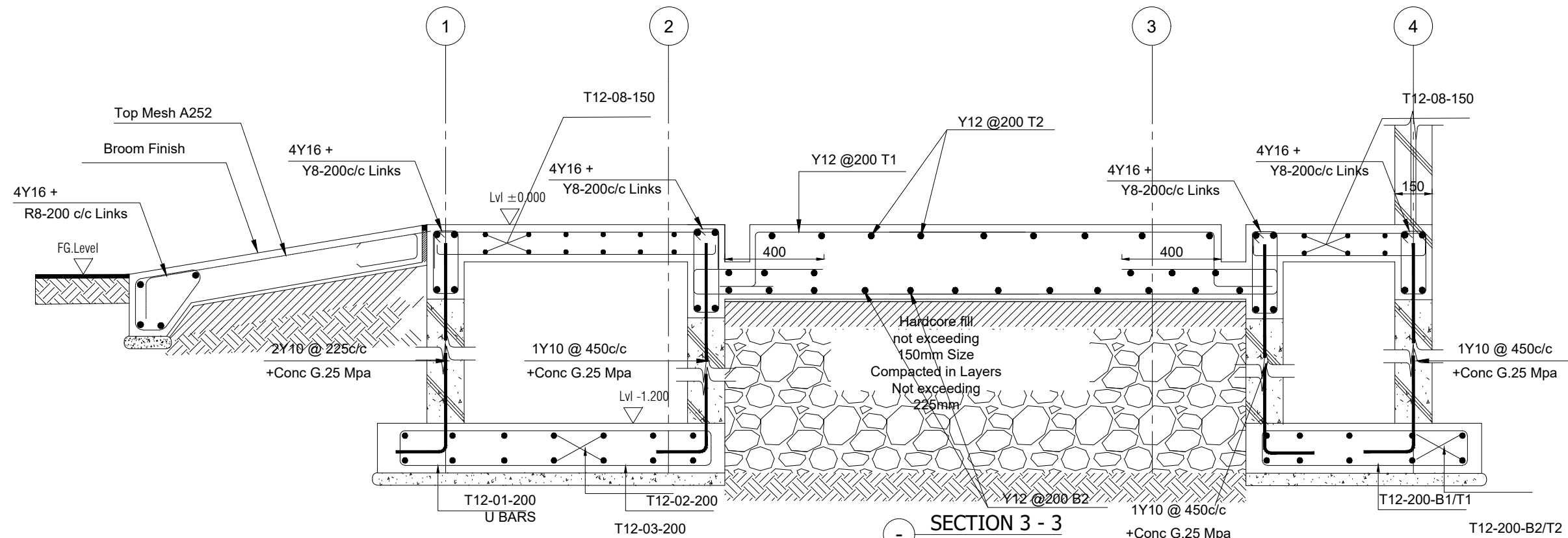
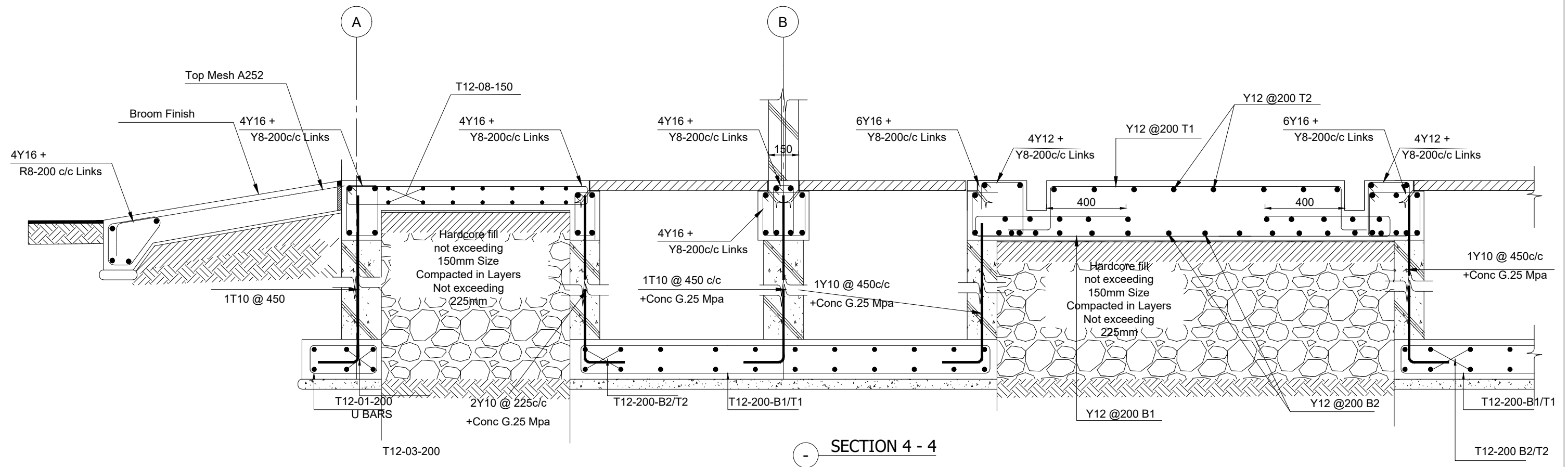
6. LEGEND.
- COLUMNS AND WALL SHOWN THUS:
- | | |
|--------------------|---|
| ARE UNDER |  |
| ARE OVER |  |
| ARE UNDER AND OVER |  |
7. All columns are centred on the bases, unless otherwise noted.

Revision Note					Mark	Date	E
Designed VD	Drawn V.L	Checked VD	Passed VD	Date Jun 2022	Scale 1:75		

V. Dabee Engineers
Consulting Engineer
 CRPE No.: 688
 27 Marcel Ducasse Street, Beau Bassin
 Mob: 59419005
 VAT: 17252628
 BRN: I13007370

Job Number/Drawing Number
21/1021/R001

Rev: _____
 T: _____



PROJECT
Triolet Rooftop PV farm

CLIENT
BDM Energy Ltd

Title
Ground Floor Details (Sheet 2)

Notes

- This drawing to be read in conjunction with all relevant Architects and M & E Engineer's drawings.
- Dimensions must not be scaled or assumed. After Notification, discrepancies or missing dimensions will be corrected in writing by the Engineer.
- All excavations for foundations to be inspected and approved by the Engineer before casting of blinding concrete.

- Cover to bars; mm
Foundation -50
Column ≤ 200mm -30
Column > 200mm -35
Top Mesh -35
Beams to links -30
Slab[Top and Bottom] -25

- Concrete strength at 28 days to be as follows:
a) Foundations Grade 30Mpa
b) Columns Grade 30Mpa
c) Surface Beds Grade 30Mpa
d) Walls Grade 30Mpa
e) Beams Grade 30Mpa
f) Slabs Grade 30Mpa
- Grade 15Mpa blinding concrete to be cast under all foundations, strip footings and ground-bearing slabs.

6. LEGEND.

COLUMNS AND WALL SHOWN THUS:

- ARE UNDER 
- ARE OVER 
- ARE UNDER AND OVER 

- All columns are centred on the bases, unless otherwise noted.

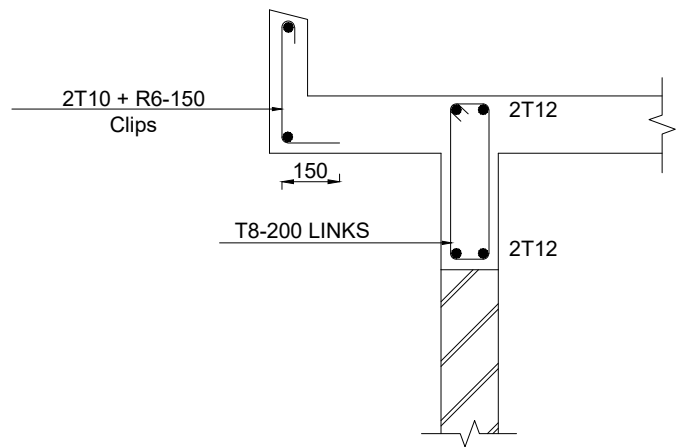
S	Revision Note					Mark	Date	By
Designed VD	Drawn V.L	Checked VD	Passed VD	Date Jun 2022	Scale 1:75			

V. Dabee Engineers
Consulting Engineer

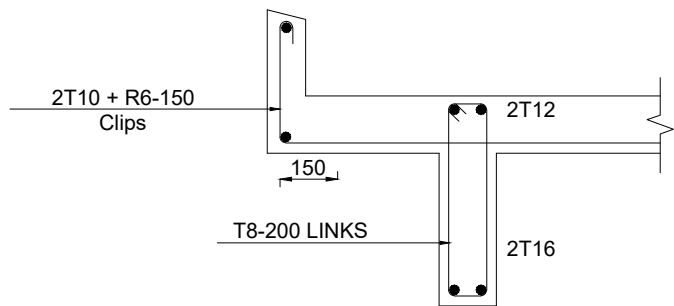
CRPE No.: 688
27 Marcel Ducasse Street, Beau Bassin
Mob: 59419005
VAT: 17252628
BRN: 113007370

Job Number/Drawing Number
21/1021/R002

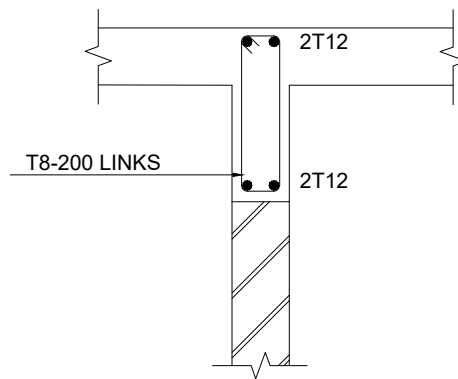
Revision
T1



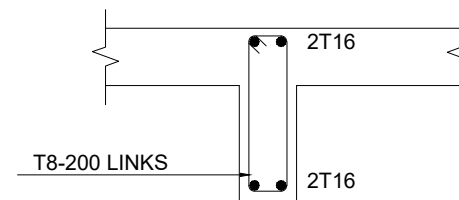
SECTION 1 - 1



SECTION 2 - 2



SECTION 3 - 3



SECTION 4 - 4

PROJECT
Triolet Rooftop PV farm

CLIENT
BDM Energy Ltd

Title
Roof R.C Details

Notes

- This drawing to be read in conjunction with all relevant Architect's and M & E Engineer's drawings.
- Dimensions must not be scaled or assumed. After Notification, discrepancies or missing dimensions will be corrected in writing by the Engineer.
- All excavations for foundations to be inspected and approved by the Engineer before casting of blinding concrete.

4. Cover to bars;	mm
Foundation	-50
Column ≤ 200mm	-30
Column > 200mm	-35
Top Mesh	-35
Beams to links	-30
Slab[Top and Bottom]	-25

- Concrete strength at 28 days to be as follows:

a) Foundations	Grade 30Mpa
b) Columns	Grade 30Mpa
c) Surface Beds	Grade 30Mpa
d) Walls	Grade 30Mpa
e) Beams	Grade 30Mpa
f) Slabs	Grade 30Mpa
- Grade 15Mpa blinding concrete to be cast under all foundations, strip footings and ground-bearing slabs.

- LEGEND.
COLUMNS AND WALL SHOWN THUS:

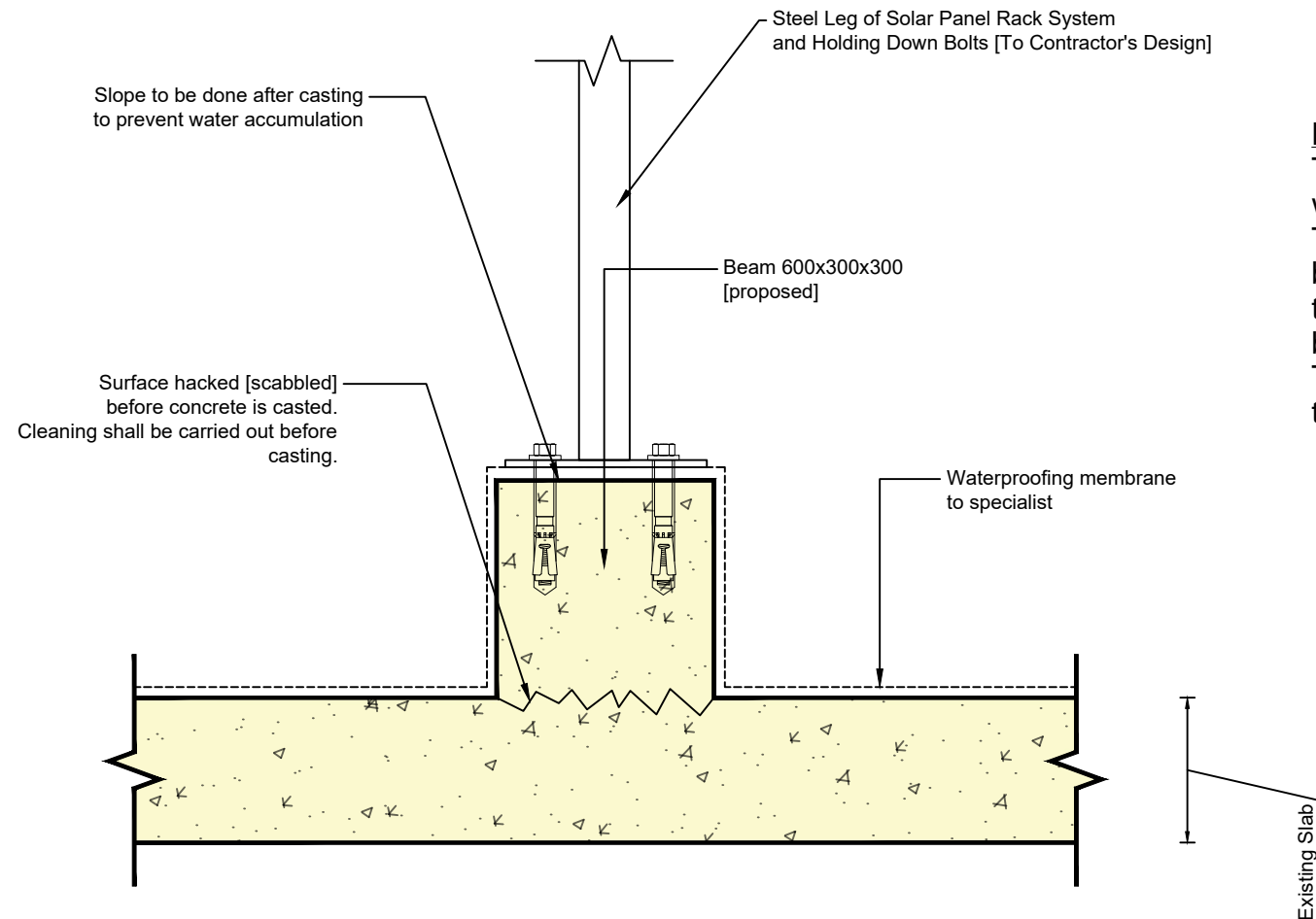
ARE UNDER	
ARE OVER	
ARE UNDER AND OVER	
- All columns are centred on the bases, unless otherwise noted.

Revision Note				Mark	Date	By
Designed VD	Drawn V.L	Checked VD	Passed VD	Date Jun 2022	Scale 1:75	

V . Dabee Engineers
Consulting Engineer
 CRPE No.: 688
 27 Marcel Ducasse Street, Beau Bassin
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 VAT: 17252628
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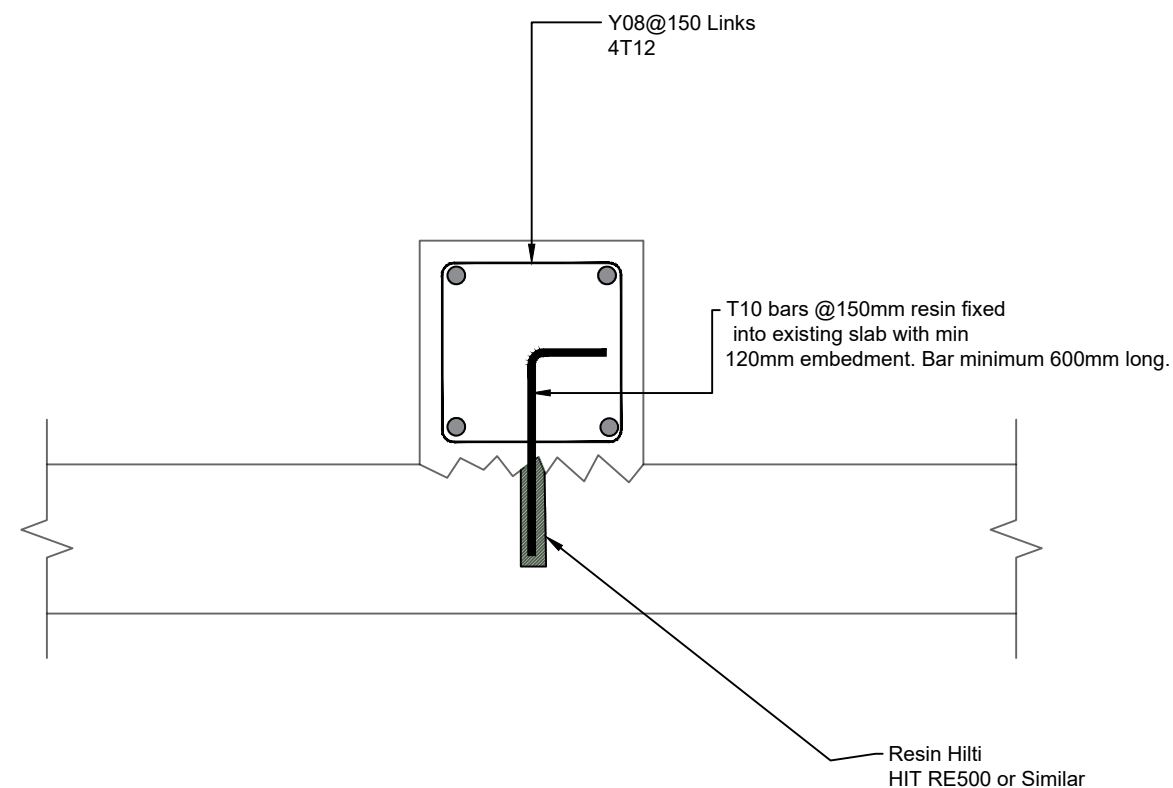
Job Number/Drawing Number
21/1021/R003

Revision
T1



NOTE:

The drawing is a conceptual drawing with proposed waterproofing treatment.
The Contractor shall propose the type of fixation system based on the PV Frame Structure and technology he is adopting and the report shall consist of drawings and calculation signed by a registered civil engineer as per specifications requirements.
The Contractor shall propose a method of fixation without affecting the existing roof slab.



The proposal should

- Resin fix T10 bars into the slab @ maximum 150mm spacing along the length of the beam.
- Use Resin Hilti HIT RE500 or similar approved
- Fix Reinforcement bars for continuous beam
- Place formwork and cast in for the steel members
- Pour concrete
- Allow for curing minimum 14 days
- Fix framing for solar panels
- Apply waterproofing system to manufacturer's details

Designed CC	Drawn CC	Checked VD	Passed VD	Date Nov 2021	Scale 1:10		
Revision Note					Mark	Date	By

NOTES	
1. This drawing to be read in conjunction with all relevant Architect's and M & E Engineer's drawings.	
2. Dimensions must not be scaled or assumed. After Notification, discrepancies or missing dimensions will be corrected in writing by the Engineer.	
2. All excavations for foundations to be inspected and approved by the Engineer before casting of blinding concrete.	
3. A soil bearing capacity of 200 kN/m2 was assumed to design the bases.	
The Engineer reserves the right to change the size of the bases, during trial pits or excavation if he considers the assumed soil bearing capacity is not appropriate.	
4. All columns are centred on the bases, unless otherwise noted.	
5. Concrete strength at 28 days to be as follows:	
a) Foundations	Grade 30Mpa
b) Columns	Grade 30Mpa
c) Surface Beds	Grade 30Mpa
d) Walls	Grade 30Mpa
e) Beams	Grade 30Mpa
f) Slabs	Grade 30Mpa
5. Grade 15Mpa blinding concrete to be cast under all foundations, strip footings and ground bearing slabs.	
6. LEGEND.	
COLUMNS AND WALL SHOWN THUS:	
ARE UNDER	
ARE OVER	
ARE UNDER AND OVER	
7. This Drawing Should Be Read In Conjunction With Drawing No.	
8. Cover to bars: Foundation- Bases, Strip Footing -50	
Column -30	
Top Mesh -35	
Beams [to links Bottom .top] -30	
Beams [to links Slides] -30	
Slab [top and Bottom] -25	

PROJECT
Triolet Rooftop PV Farm

CLIENT
BDM Energy Ltd

DRAWING TITLE
Roof Plinth Conceptual Detail

V . Dabee Engineers Consulting Engineer CRPE No.: 688 27 Marcel Ducasse Street, Beau Bassin Mob: 59419005 VAT: 17252628 BRN: 113007370	
Drawing Number 21/1020/R005	Revision T0