


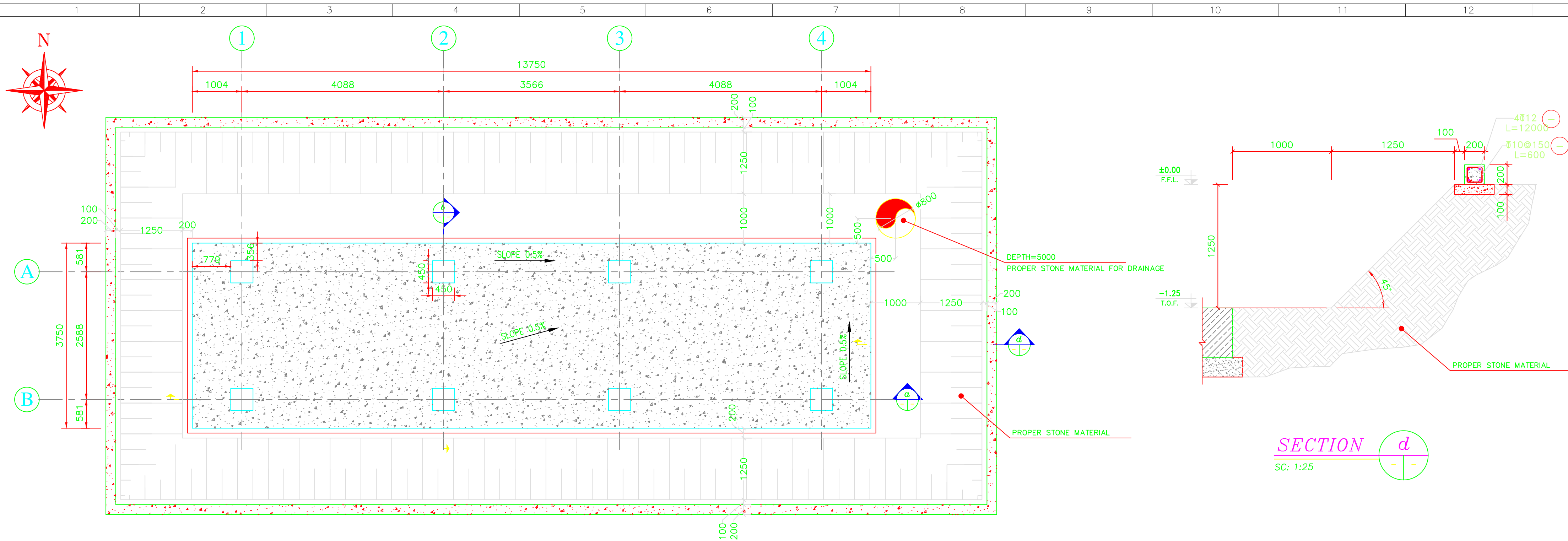


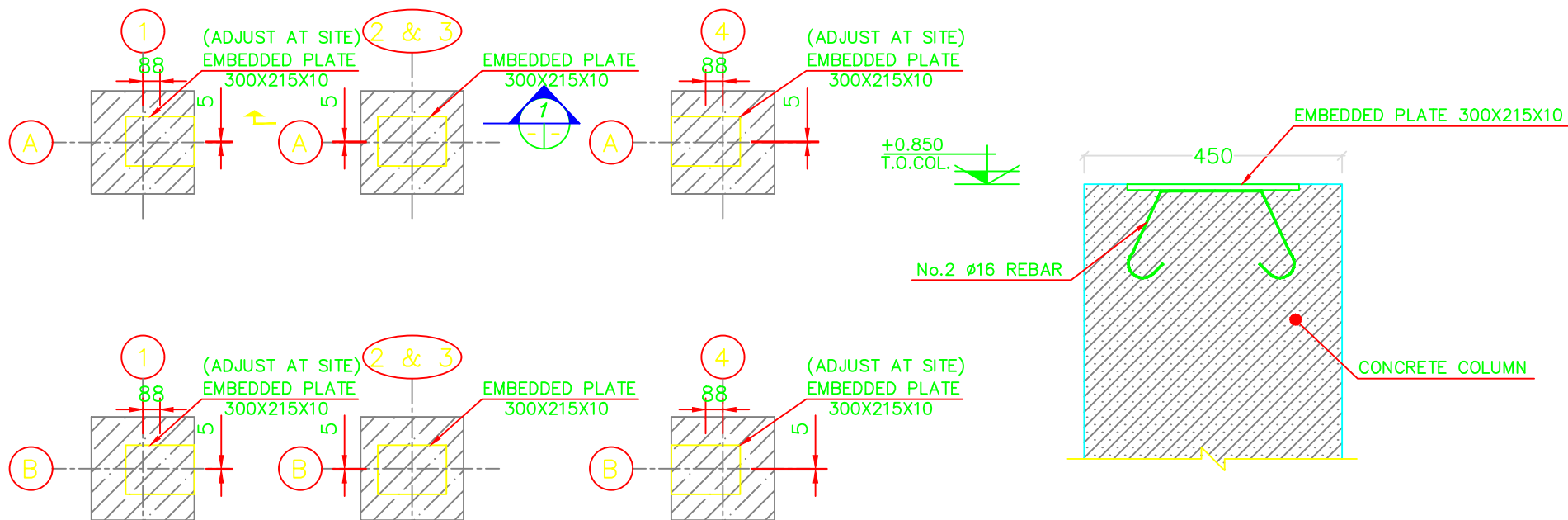
MV TRUNKEY STATION-STRUCTURAL DESIGN DRAWING

REFERENCE						
REFERENCE. TITLE			REFERENCE. No.			
6.25MW FOUNDATION DRAWING			EP-6250-HB-UD-33			
PLOT PLAN			28P2-B-3MG-PLN-SOL-000000-CV-001			
CABLE ROUTE LAYOUT			28P2-B-3MG-E33-SOL-460001-EL-197			
NOTES						
LEGEND						
REV. DATE DESCRIPTION DESIGN DRAWN CHECKED APPROVED						
05	2026/04	ACC TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU
04	2026/03	ACC TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU
03	2026/01	ACC TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU
02	2026/01	ACC TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU
01	2025/12	ACC TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU
00	2025/11	FIRST ISSUE	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU
Client:   						
Project: 100MW Solar Power Plant (SARCHESHME )						
Title: MV TURNKEY STATION STRUCTURAL DESIGN						
COVER SHEET						
DOC NO.:		28P2-B-3MG-DCR-SOL-020000-ST-163		REV. 05		
SCALE		SIZE		FORMAT		
		01 OF 10		DWG		



MV TRUNKY FORMWORK PLAN

SC. 1:50 STATIONS: 1-1, 1-2, 1-3, 1-4, 3-1, 3-2, 3-3 & 3-4

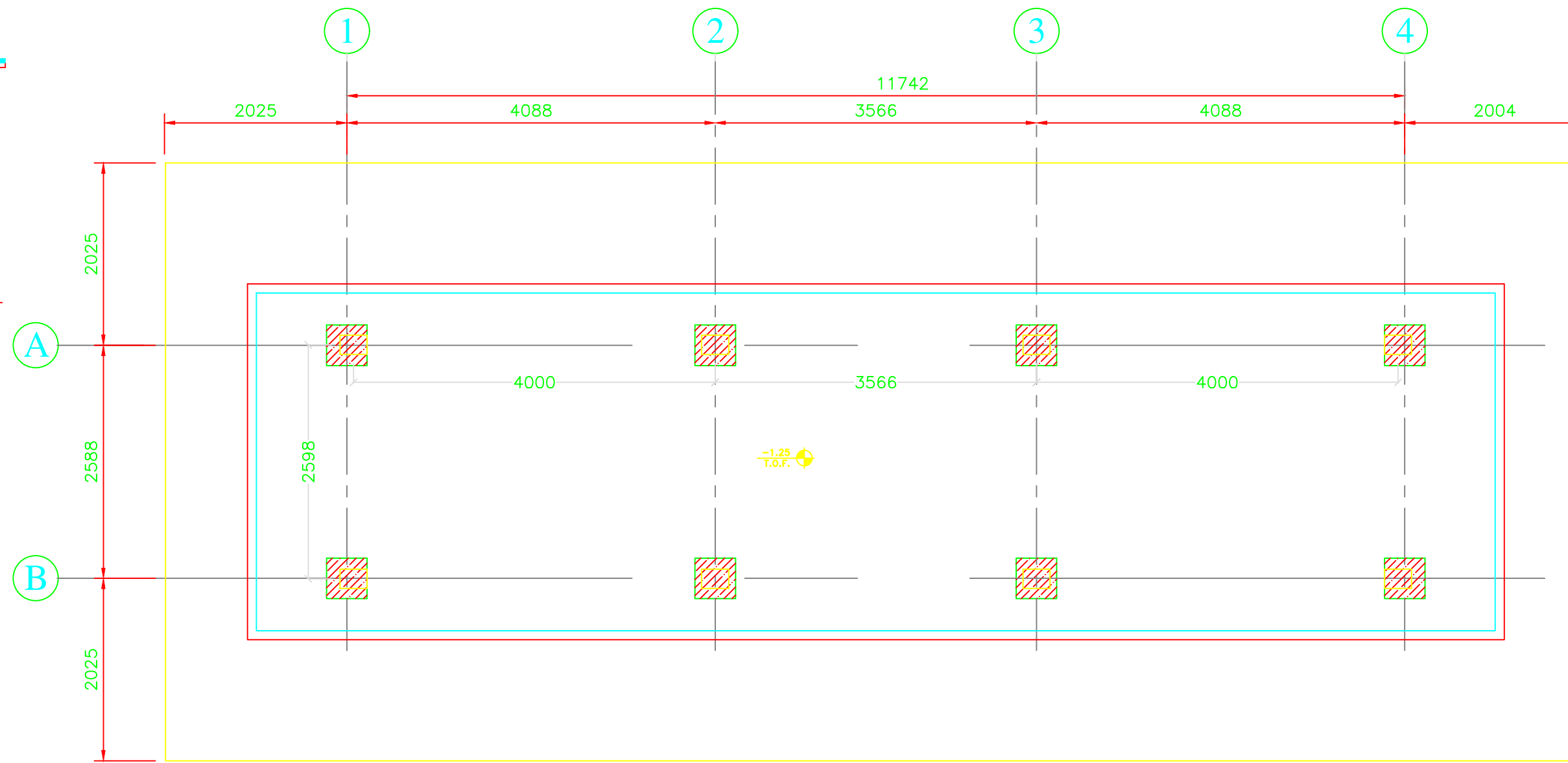


EMBEDDED PLATE ARRANGEMENT

SC. 1:25

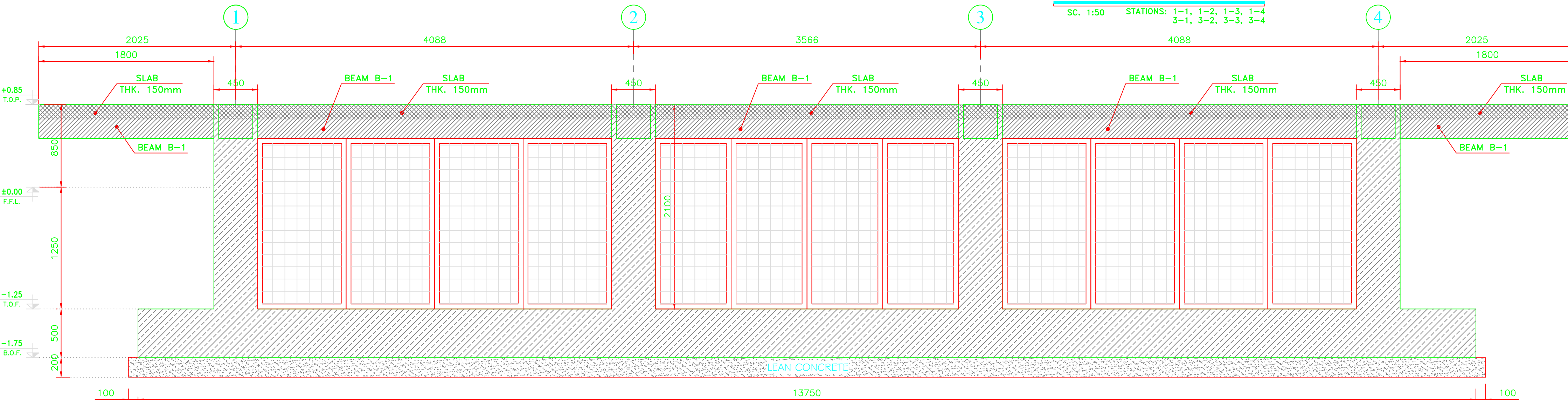


SC. 1:25



FOUNDATION PLAN

SC. 1:50 STATIONS: 1-1, 1-2, 1-3, 1-4, 3-1, 3-2, 3-3, 3-4



SECTION a

SC. 1:25

REFERENCE

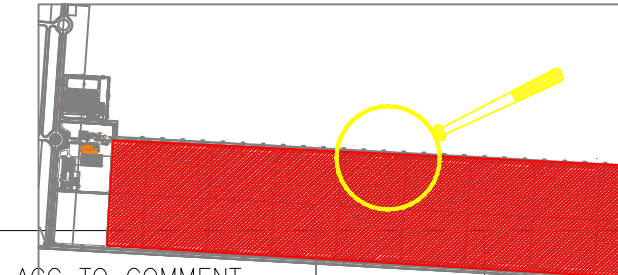
REFERENCE. TITLE	REFERENCE. No.
6.25MW FOUNDATION DRAWING	EP-6250-HB-UD-33
PLOT PLAN	28P2-B-3MG-PLN-SOL-000000-CV-001
CABLE ROUTE LAYOUT	28P2-B-3MG-E33-SOL-460001-EL-197

NOTES

- ALL DIMENSIONS ARE IN mm & ELEVATION ARE IN METER.
- PORTLAND CEMENT TYPE ( II ) IS USED.
- CONCRETE WITH SPECIFIED COMPRESSIVE STRENGTH  $f'c = 300 \text{ kg/cm}^2$  AT 28 DAYS AGE ON STANDARD CYLINDRICAL SAMPLE SHOULD BE USED.
- REINFORCEMENT SHOULD BE DEFORMED BARS OF WITH MINIMUM YIELDSTRENGTH  $f_y = 4000 \text{ kg/cm}^2$ .
- THE COVER FOR REINFORCEMENT MUST BE TAKEN AS Min. 75 mm FOR FOUNDATION AND Min.75mm FOR OTHER PARTS.
- BOTTOM REINFORCEMENT TO BE SUPPORTED IN FORMS WITH CEMENT-SAND BLOCKS OR PLASTIC SUPPORTS.
- DETAIL OF REINFORCEMENTS SHALL BE IN ACCORDANCE WITH ACI-315 , ACI-318.
- ALL RE-BARS SHOULD HAVE MINIMUM 60xD SPICE LENGTH FOR BOT. LAYER & 80xD FOR TOP LAYER WHEREVER SPLICED ACCORDING TO TO ACI318 (D=DIAMETER OF RE-BARS).
- FOR 0.00 LEVEL PLEASE SEE BELOW REFERENCE:  
PLOT PLAN: 28P2-B-3MG-PLN-SOL-000000-CV-001
- WELL GRADED COMPACTED BACKFILL ACC.TO PROJECT SPEC.
- LEAN CONCRETE SHALL BE CONTAINED Min. 150 Kg. OF CEMENT PER CUBIC METER .
- ALL COMMON FILL , AND GRANULAR FILL SHALL BE COMPACTED TO A MINIMUM DEGREE OF COMPACTION OF 95% MAXIMUM DENSITY AS DETERMINED BY "ASTM D1557".
- EXPOSED EXTERNAL CORNERS OF CONCRETE MUST BE CHAMFERED 20mm. x 45'. OF CEMENT PER CUBIC METER .
- ALL CONCRETE SURFACE WHICH IS IN CONTACT WITH SOIL SHOULD BE COATED BY BITUMEN COATING.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THE CONSISTENCY OF ALL DRAWINGS WITH THE LATEST PLOT PLAN AND BASIC DOCUMENTS.
- STRUCTURAL WELDING SHALL BE: E70XX ELECTRODE .
- ALL STEEL PARTS SHALL BE HOT DIP GALVANIZED.

LEGEND

T.O.F. = TOP OF FOUNDATION  
B.O.F. = BOTTOM OF FOUNDATION  
T.O.P. = TOP OF PLATE  
F.F.L. = FINAL FINISHED LEVEL



05	2026/04	ACC TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU
04	2026/03	ACC TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU
03	2026/01	ACC TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU
02	2026/01	ACC TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU
01	2025/12	ACC TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU
00	2025/11	FIRST ISSUE	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED
Client:						
Consultant:			Contractor:			
Sub Contractor:						

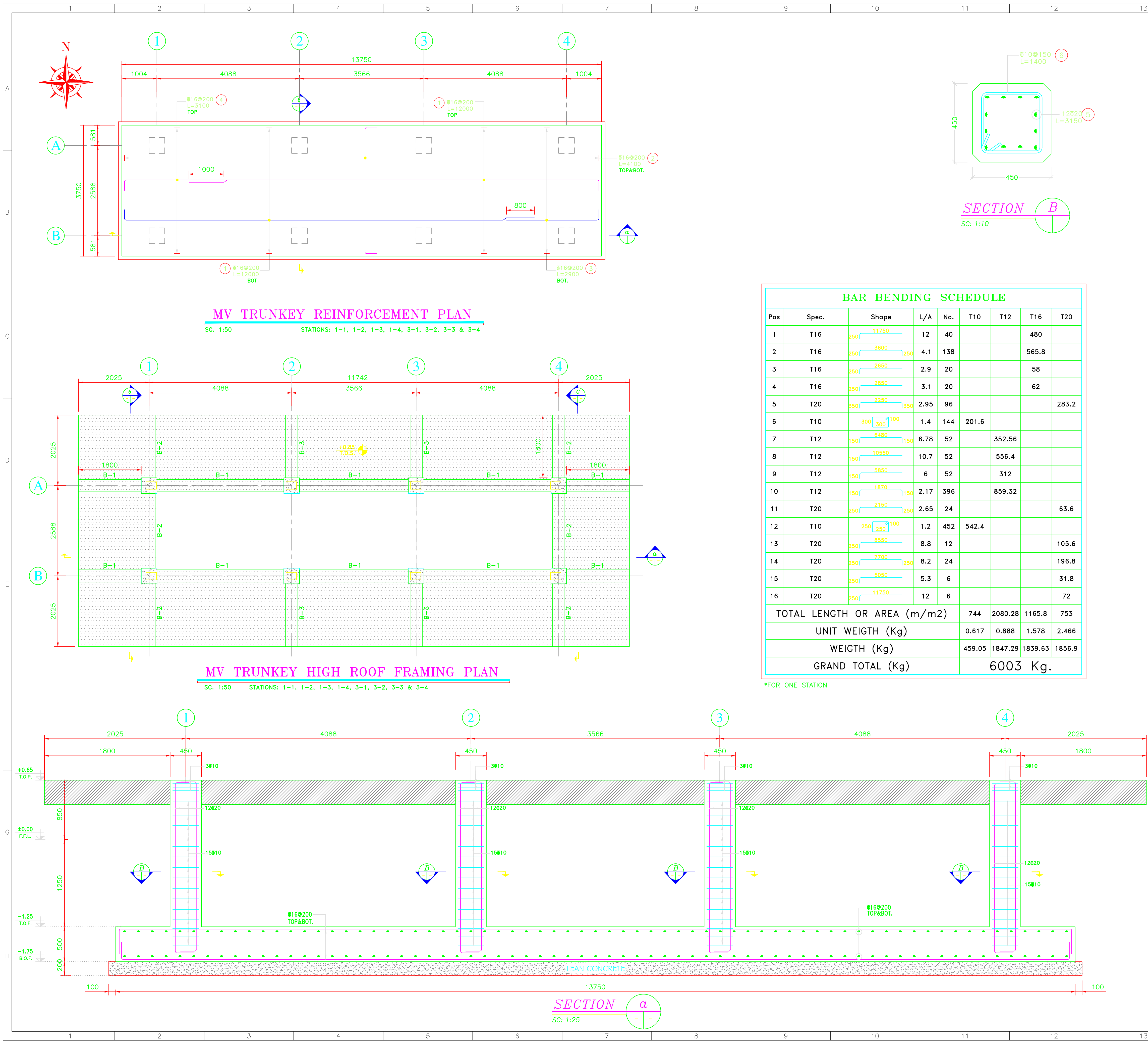
Project:	100MW Solar Power Plant (SARCHESHME )
Title:	MV TURNKEY STATION STRUCTURAL DESIGN
	MV TRUNKY STATION-STRUCTURAL DESIGN (CALCULATION REPORT & DRAWINGS)

DOC NO.:	28P2-B-3MG-DCR-SOL-020000-ST-163	REV.	05
SCALE	SIZE	SHEET	FORMAT
		03 OF 10	DWG





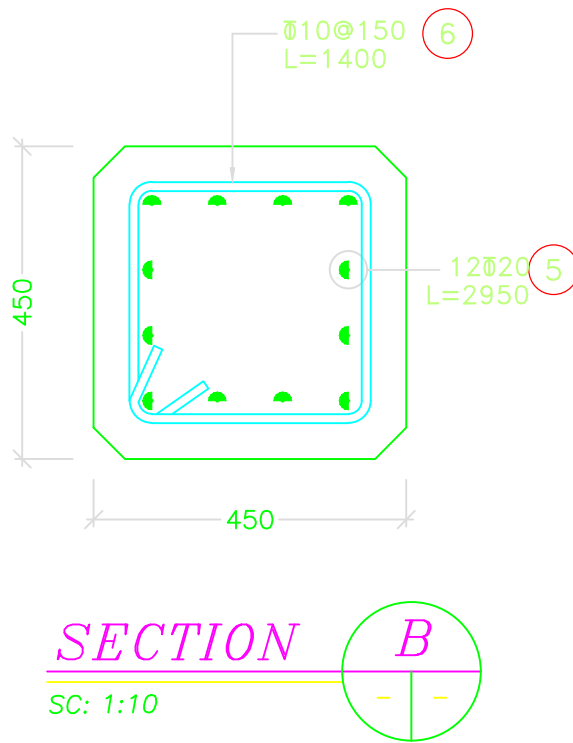
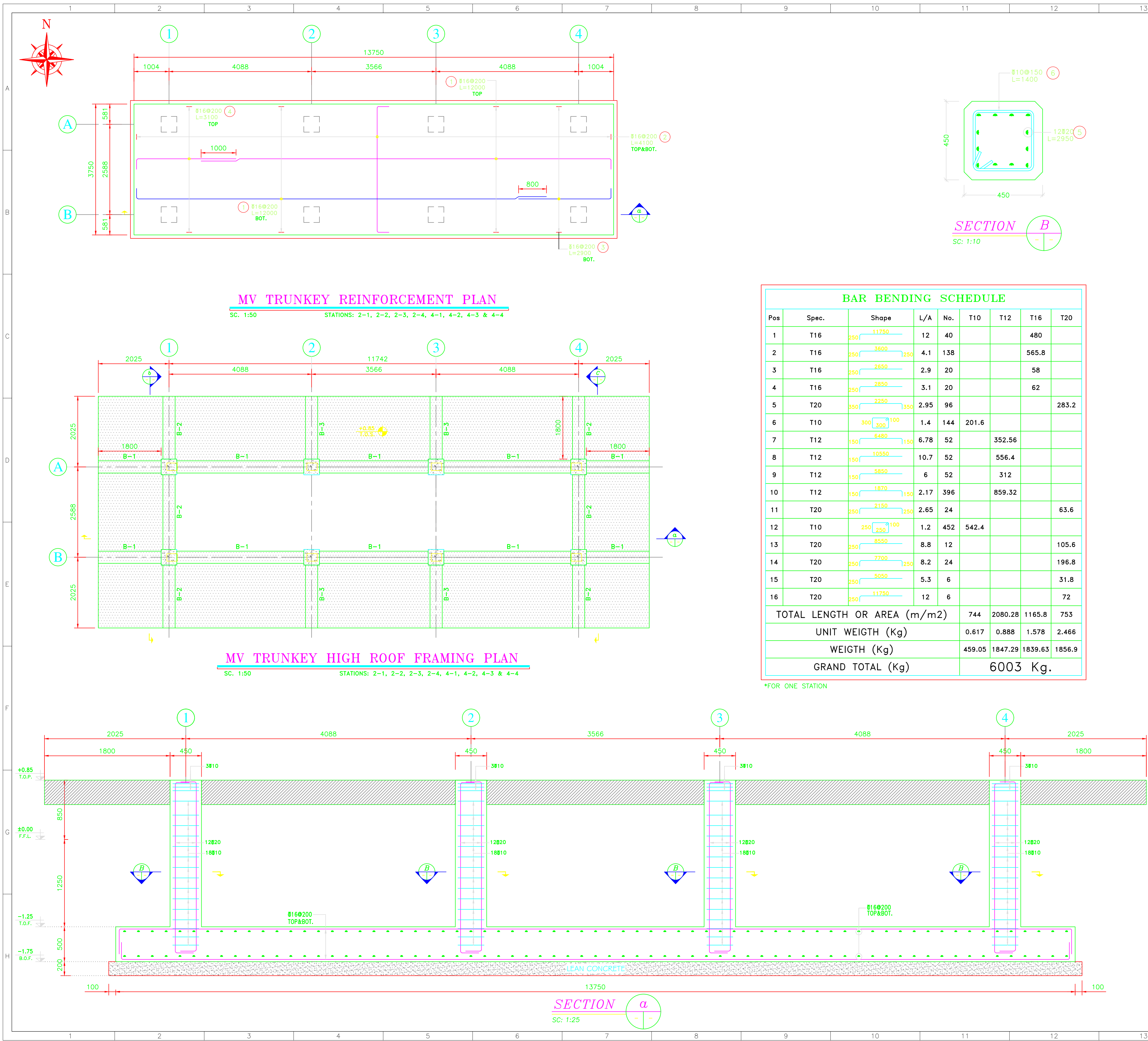




BAR BENDING SCHEDULE									
Pos	Spec.	Shape	L/A	No.	T10	T12	T16	T20	
1	T16		12	40			480		
2	T16		4.1	138			565.8		
3	T16		2.9	20			58		
4	T16		3.1	20			62		
5	T20		2.95	96				283.2	
6	T10		1.4	144	201.6				
7	T12		6.78	52	352.56				
8	T12		10.7	52	556.4				
9	T12		6	52	312				
10	T12		2.17	396	859.32				
11	T20		2.65	24				63.6	
12	T10		1.2	452	542.4				
13	T20		8.8	12				105.6	
14	T20		8.2	24				196.8	
15	T20		5.3	6				31.8	
16	T20		12	6				72	
TOTAL LENGTH OR AREA (m/m2)					744	2080.28	1165.8	753	
UNIT WEIGHT (Kg)					0.617	0.888	1.578	2.466	
WEIGHT (Kg)					459.05	1847.29	1839.63	1856.9	
GRAND TOTAL (Kg)					6003 Kg.				

\*FOR ONE STATION

REFERENCE					
REFERENCE. TITLE			REFERENCE. No.		
6.25MW FOUNDATION DRAWING			EP-6250-HB-UD-33		
PLOT PLAN			28P2-B-3MG-PLN-SOL-000000-CV-001		
CABLE ROUTE LAYOUT			28P2-B-3MG-E33-SOL-460001-EL-197		
---			---		
NOTES					
1- ALL DIMENSIONS ARE IN mm & ELEVATION ARE IN METER.					



BAR BENDING SCHEDULE									
Pos	Spec.	Shape	L/A	No.	T10	T12	T16	T20	
1	T16		12	40			480		
2	T16		4.1	138			565.8		
3	T16		2.9	20			58		
4	T16		3.1	20			62		
5	T20		2.95	96				283.2	
6	T10		1.4	144	201.6				
7	T12		6.78	52		352.56			
8	T12		10.7	52		556.4			
9	T12		6	52		312			
10	T12		2.17	396		859.32			
11	T20		2.65	24				63.6	
12	T10		1.2	452	542.4				
13	T20		8.8	12				105.6	
14	T20		8.2	24				196.8	
15	T20		5.3	6				31.8	
16	T20		12	6				72	
TOTAL LENGTH OR AREA (m/m2)					744	2080.28	1165.8	753	
UNIT WEIGH (Kg)					0.617	0.888	1.578	2.466	
WEIGHT (Kg)					459.05	1847.29	1839.63	1856.9	
GRAND TOTAL (Kg)					6003 Kg.				

\*FOR ONE STATION

REFERENCE

REFERENCE. TITLE	REFERENCE. No.
6.25MW FOUNDATION DRAWING	EP-6250-HB-UD-33
PLOT PLAN	28P2-B-3MG-PLN-SOL-000000-CV-001
CABLE ROUTE LAYOUT	28P2-B-3MG-E33-SOL-460001-EL-197
----	----

NOTES

1- ALL DIMENSIONS ARE IN mm & ELEVATION ARE IN METER.

LEGEND

T.O.F. = TOP OF FOUNDATION  
B.O.F. = BOTTOM OF FOUNDATION  
T.O.P. = TOP OF PLATE  
F.F.L. = FINAL FINISHED LEVEL

05	2026/04	ACC TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU
04	2026/03	ACC TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU
03	2026/01	ACC TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU
02	2026/01	ACC TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU
01	2025/12	ACC TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU
00	2025/11	FIRST ISSUE	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU
REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED

Client:

Consultant:

موندکو ایران  
Monenco Iran

Contractor:

مهندسین مشاوران  
SHARGH CO.

Sub Contractor:

Project:

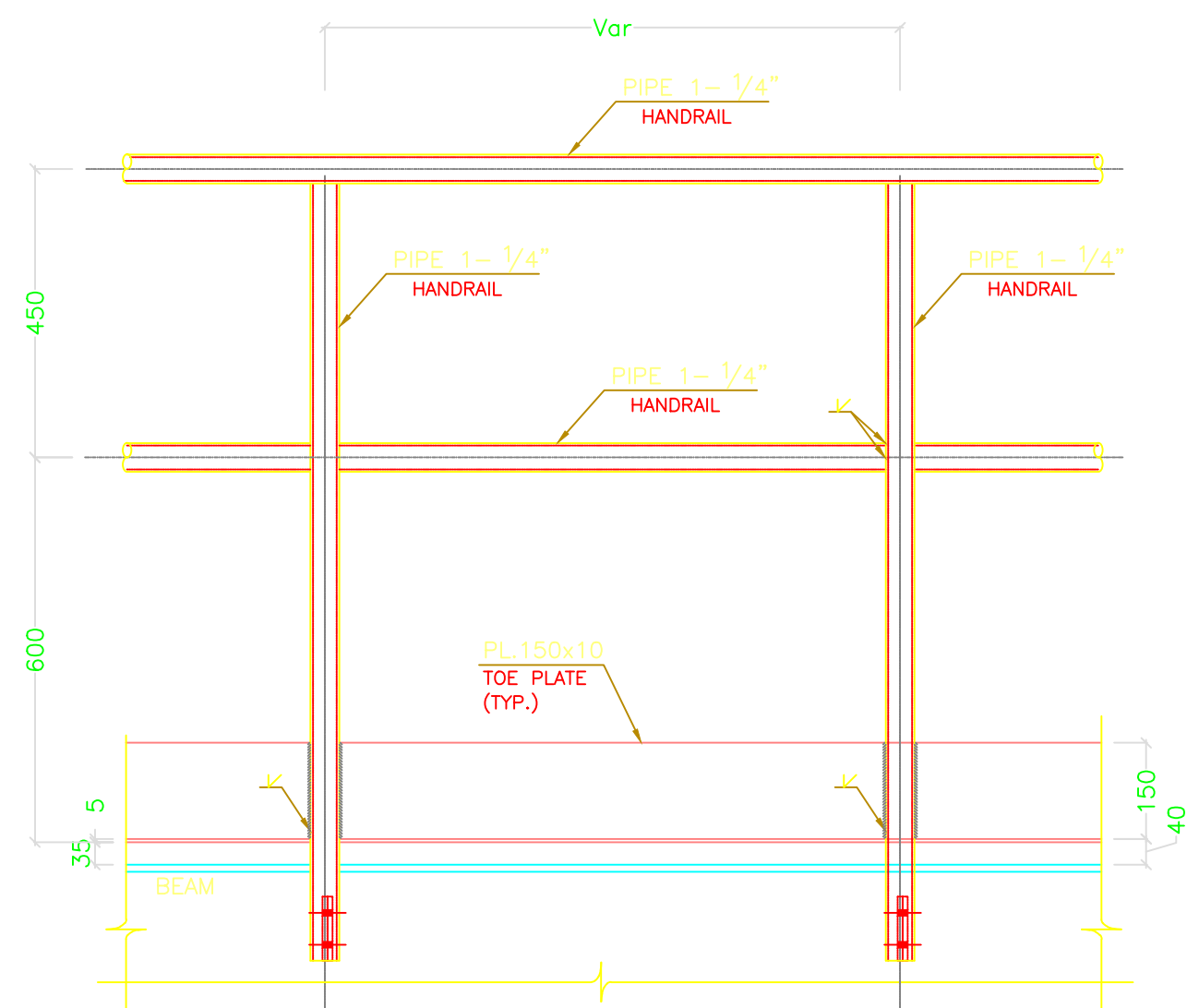
100MW Solar Power Plant  
(SARCHESHME )

Title:

MV TURNKEY STATION STRUCTURAL DESIGN  
MV TRUNKEY STATION-STRUCTURAL DESIGN  
(CALCULATION REPORT & DRAWINGS)

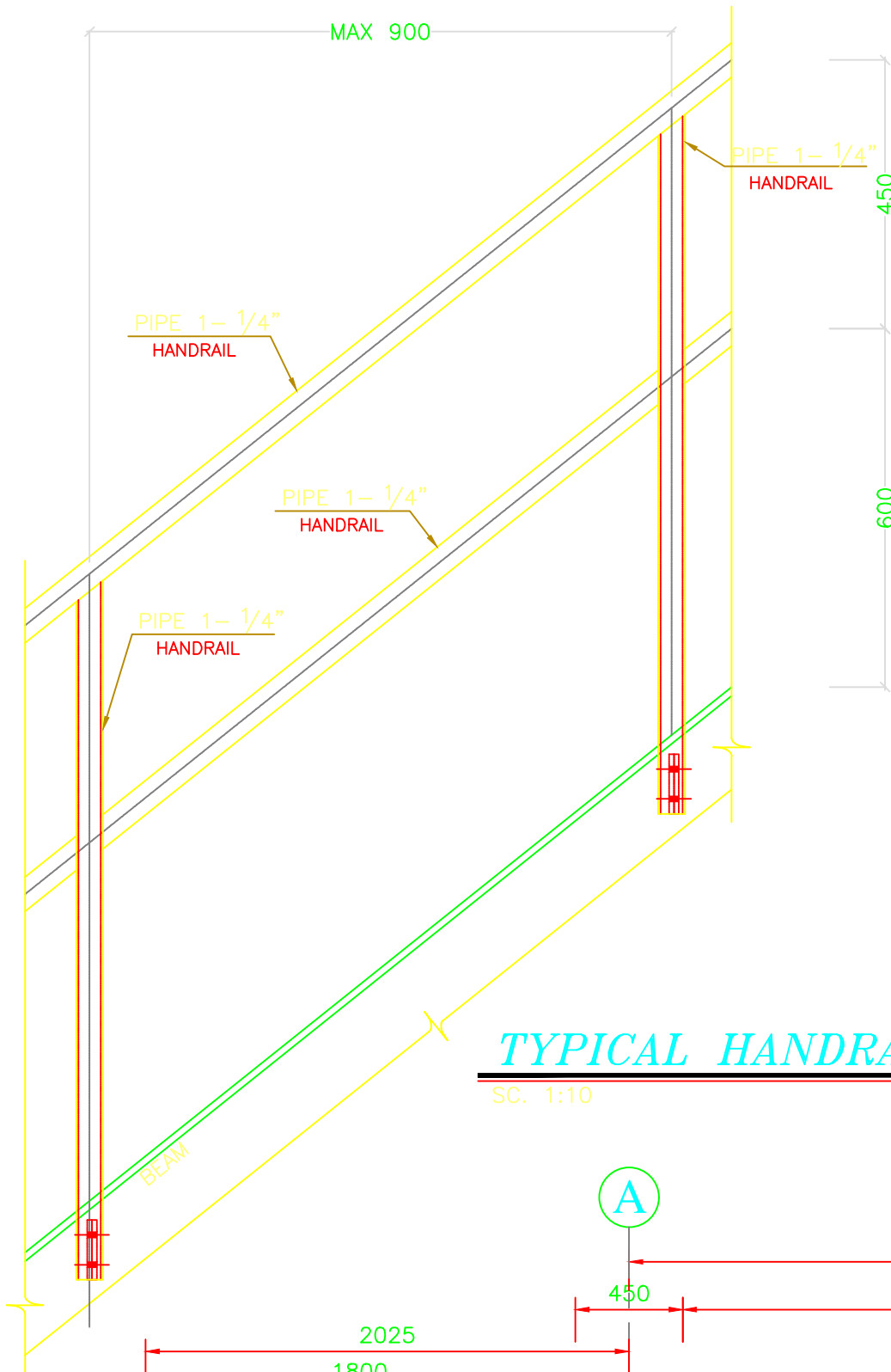
DOC NO.:	28P2-B-3MG-DCR-SOL-020000-ST-163	REV.	05
SCALE	SIZE	SHEET	FORMAT
		06 OF 10	DWG





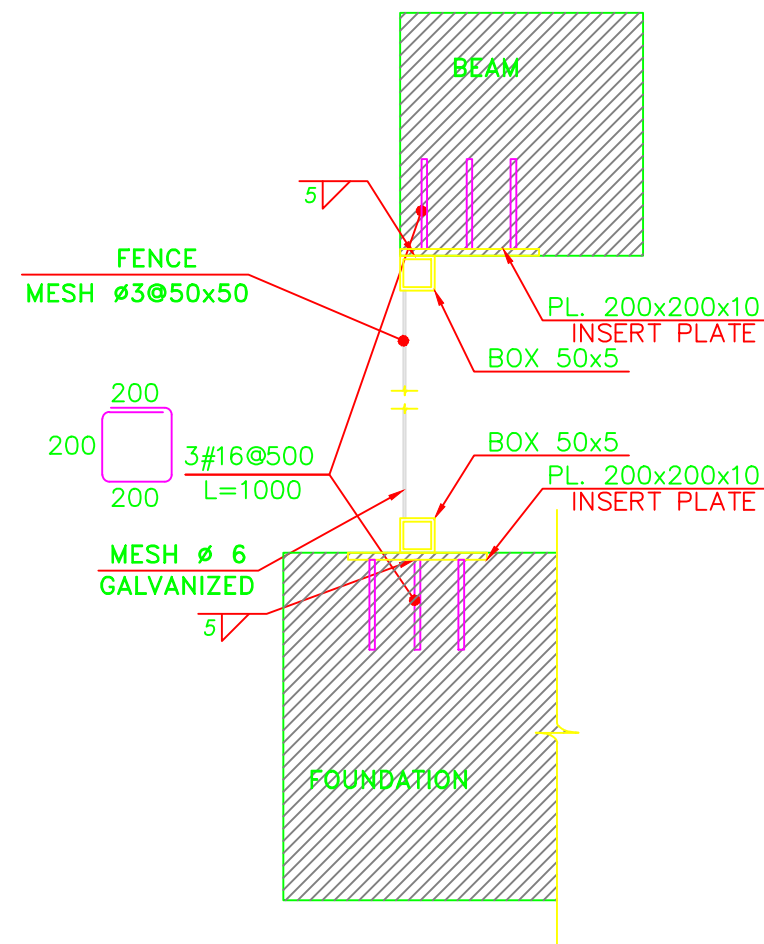
TYPICAL HANDRAIL DETAIL

SC: 1:10



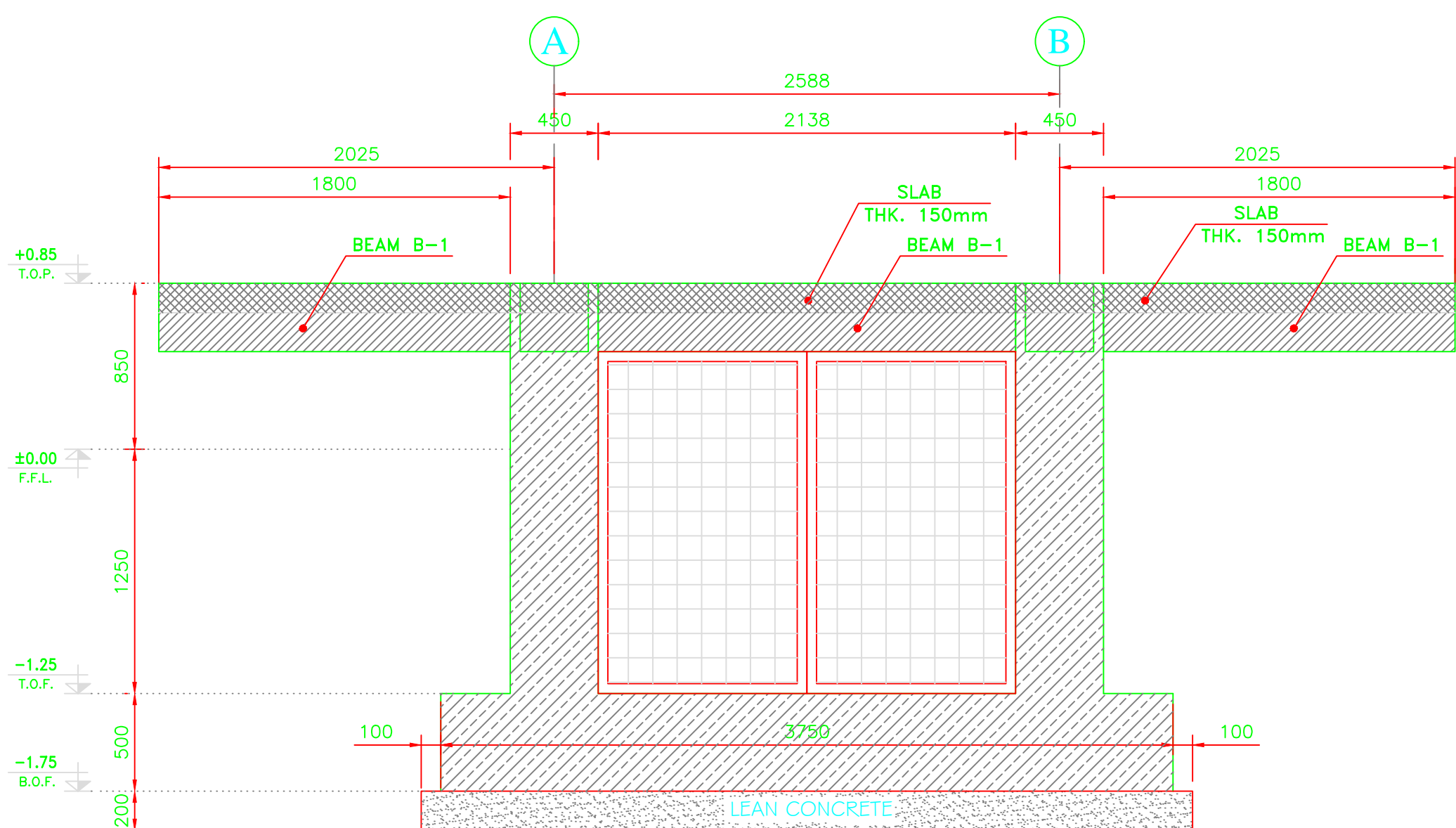
TYPICAL HANDRAIL DETAIL

SC: 1:10



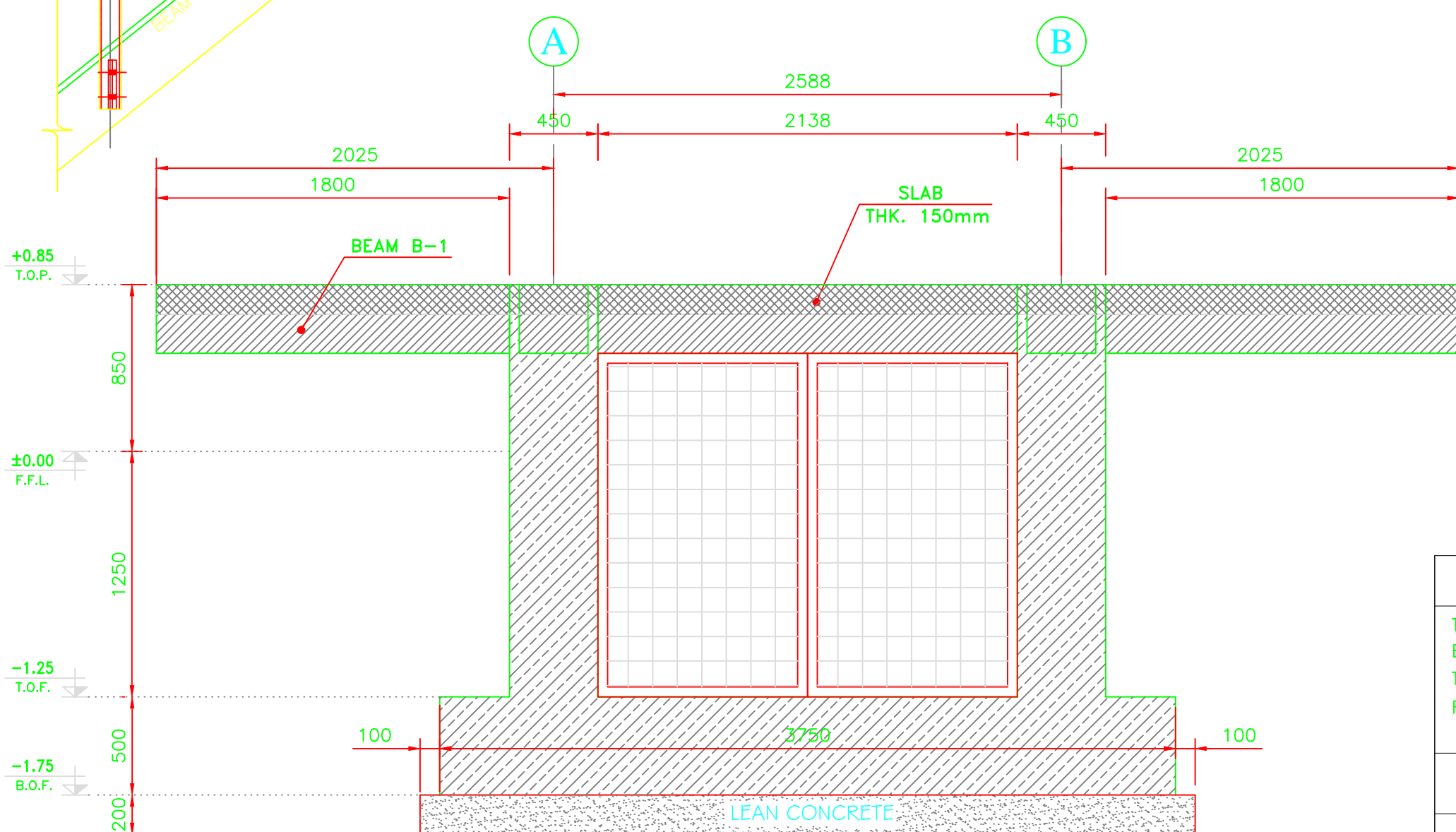
TYPICAL FENCE SECTION

SC: 1:10



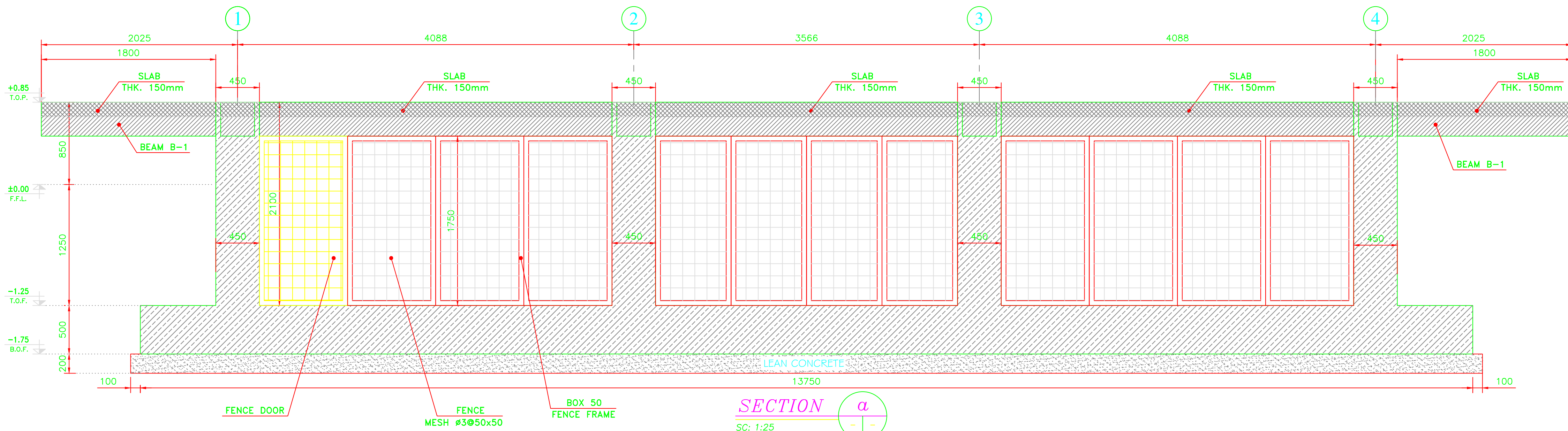
SECTION b

SC: 1:25



SECTION c

SC: 1:25



SECTION a

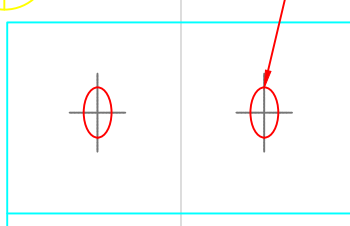
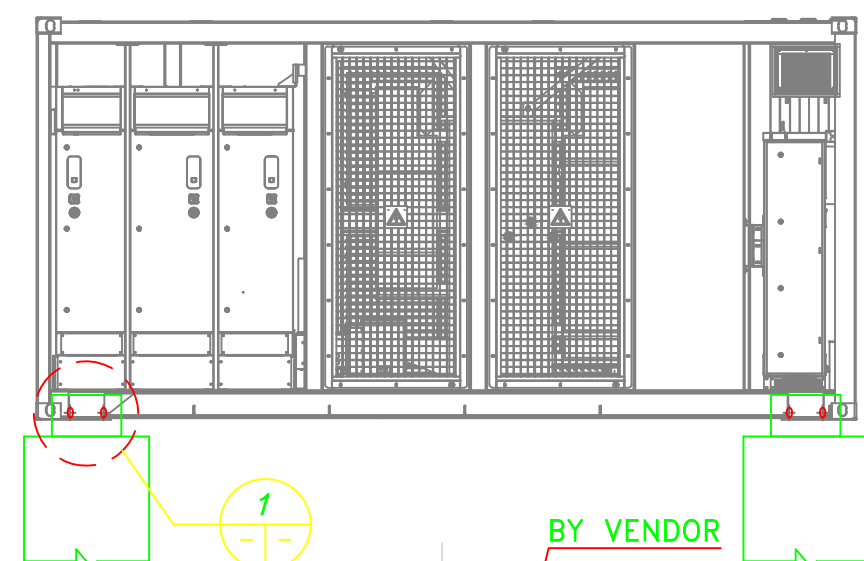
SC: 1:25

REFERENCE

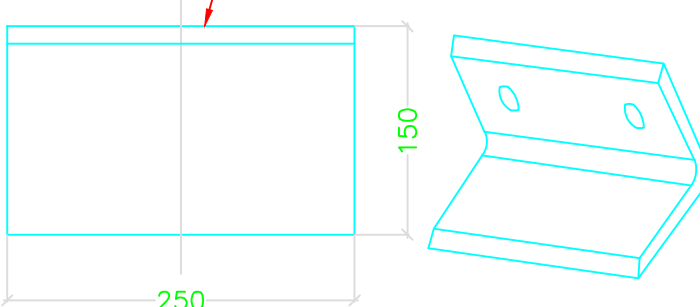
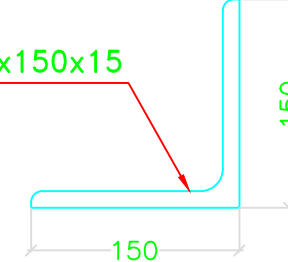
REFERENCE. TITLE	REFERENCE. No.
6.25MW FOUNDATION DRAWING	EP-6250-HB-UD-33
PLOT PLAN	28P2-B-3MG-PLN-SOL-000000-CV-001
CABLE ROUTE LAYOUT	28P2-B-3MG-E33-SOL-460001-EL-197

NOTES

1- ALL DIMENSIONS ARE IN mm & ELEVATION ARE IN METER.



BY VENDOR



DETAIL 1

SC: 1:5

LEGEND

T.O.F. = TOP OF FOUNDATION  
B.O.F. = BOTTOM OF FOUNDATION  
T.O.P. = TOP OF PLATE  
F.F.L. = FINAL FINISHED LEVEL

04	2026/03	ACC. TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU
03	2026/01	ACC. TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU
02	2026/01	ACC. TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU
01	2025/12	ACC. TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU
00	2025/11	FIRST ISSUE	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU

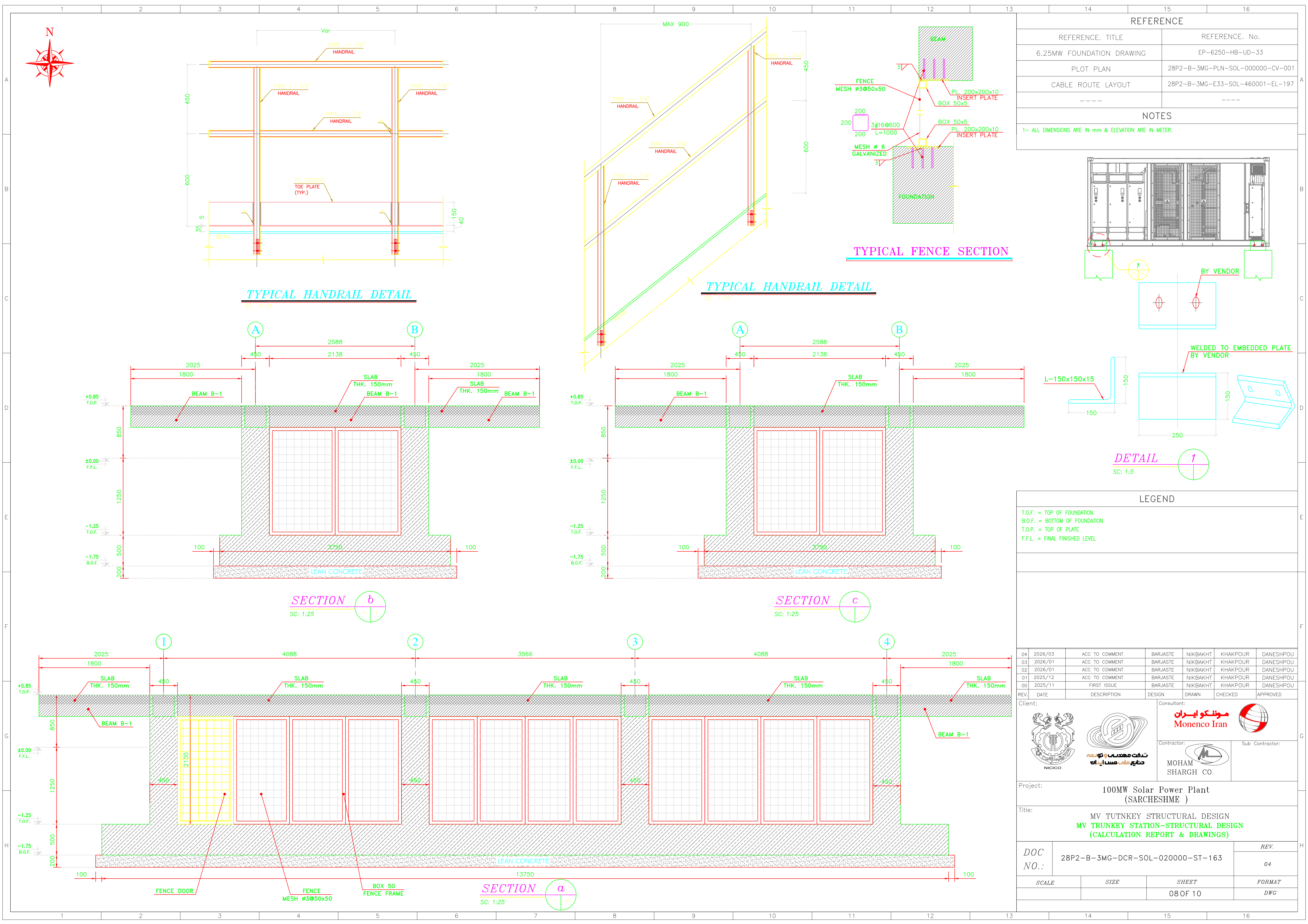
Client:	Consultant:
Contractor:	Sub Contractor:

Project: 100MW Solar Power Plant (SARCHESHME )

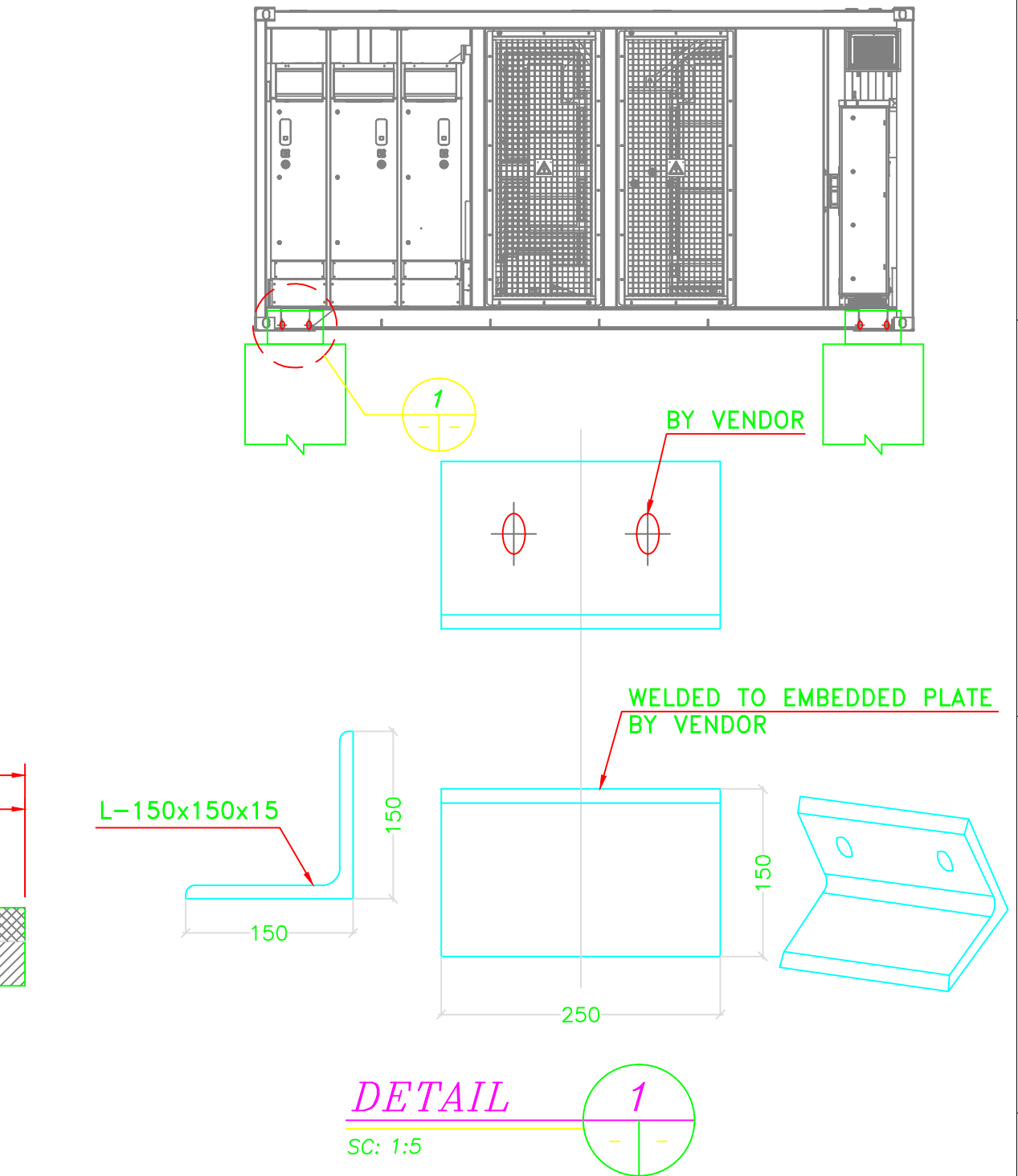
Title: MV TUTNKEY STRUCTURAL DESIGN  
MV TRUNKY STATION-STRUCTURAL DESIGN  
(CALCULATION REPORT & DRAWINGS)

DOC NO.:	28P2-B-3MG-DCR-SOL-020000-ST-163	REV.	04
SCALE	SIZE	SHEET	FORMAT
		07 OF 10	DWG






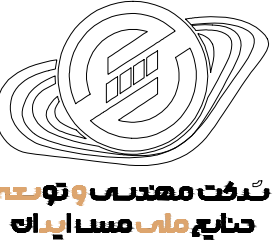

REFERENCE	
REFERENCE. TITLE	REFERENCE. No.
6.25MW FOUNDATION DRAWING	EP-6250-HB-UD-33
PLOT PLAN	28P2-B-3MG-PLN-SOL-000000-CV-001
CABLE ROUTE LAYOUT	28P2-B-3MG-E33-SOL-460001-EL-197
---	---
NOTES	
1- ALL DIMENSIONS ARE IN mm & ELEVATION ARE IN METER.	





LEGEND	
T.O.F. = TOP OF FOUNDATION	
B.O.F. = BOTTOM OF FOUNDATION	
T.O.P. = TOP OF PLATE	
F.F.L. = FINAL FINISHED LEVEL	

04	2026/03	ACC. TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU
03	2026/01	ACC. TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU
02	2026/01	ACC. TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU
01	2025/12	ACC. TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU
00	2025/11	FIRST ISSUE	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOU
REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED


Client:



Consultant:



Contractor:



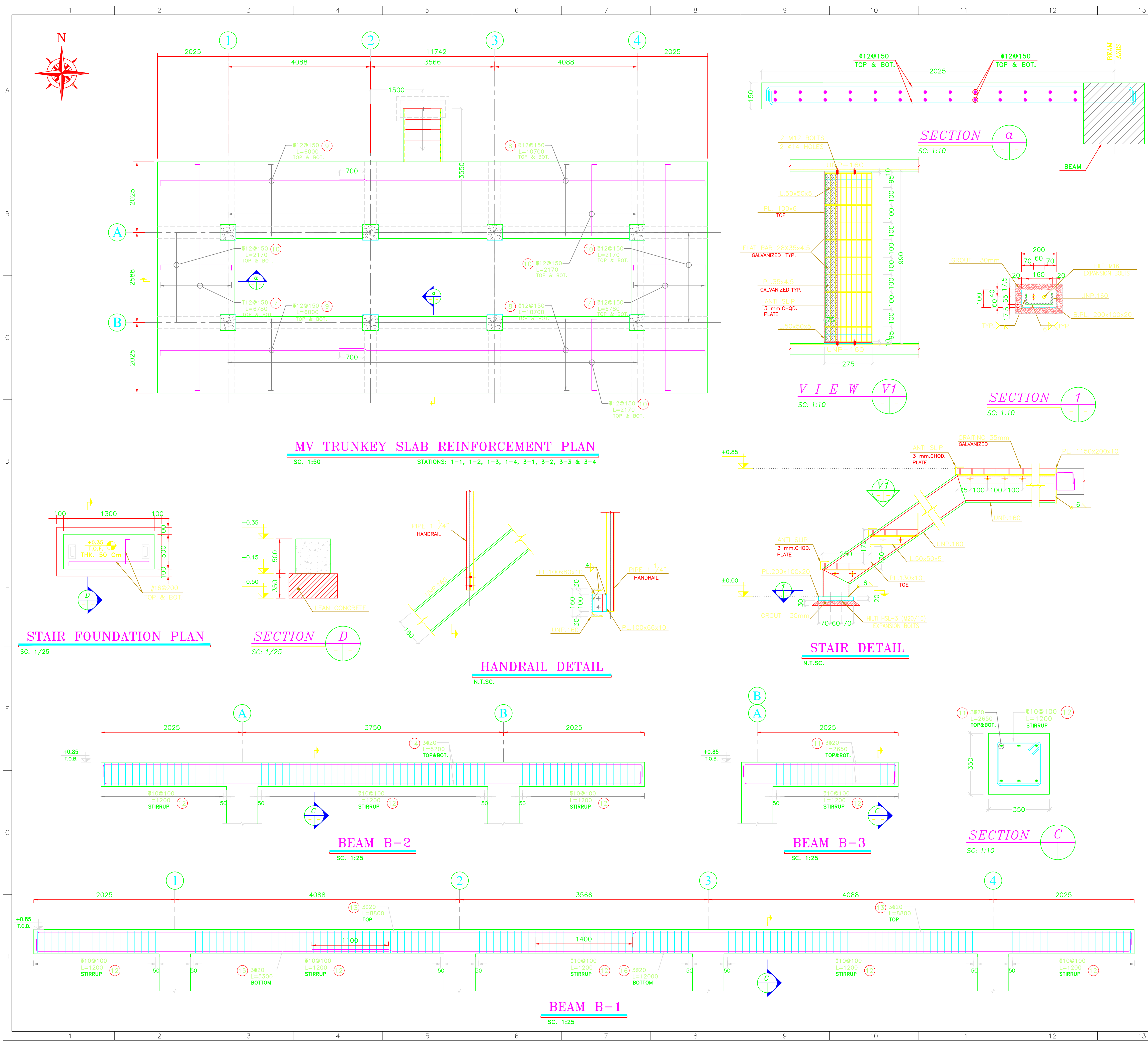
Sub Contractor:

Project: 100MW Solar Power Plant (SARCHESHME )

Title: MV TUTNKEY STRUCTURAL DESIGN  
MV TRUNKY STATION-STRUCTURAL DESIGN  
(CALCULATION REPORT & DRAWINGS)

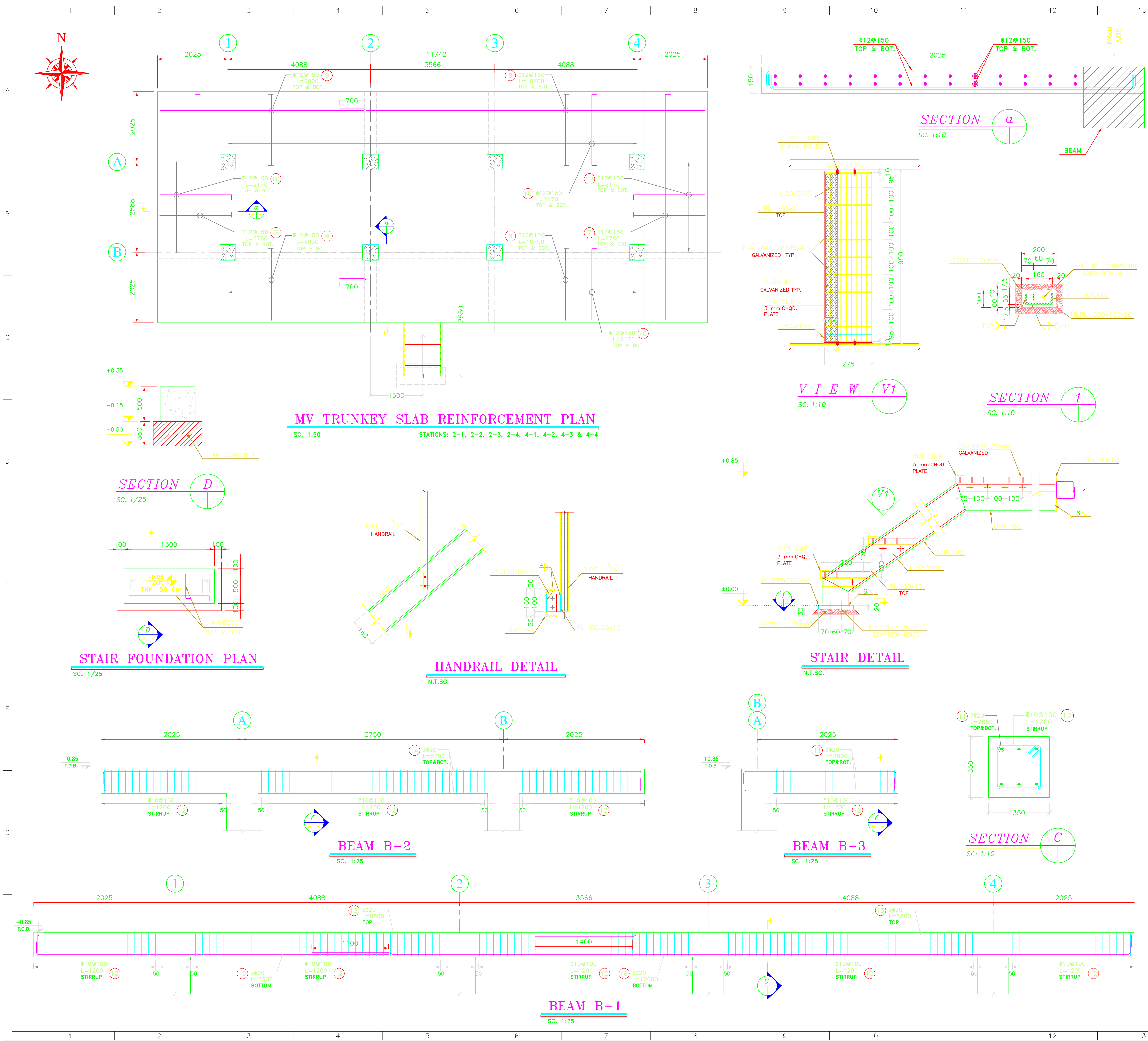
DOC NO.:	28P2-B-3MG-DCR-SOL-020000-ST-163	REV.	04
SCALE	SIZE	SHEET	FORMAT
		08 OF 10	DWG





REFERENCE						
REFERENCE. TITLE			REFERENCE. No.			
6.25MW FOUNDATION DRAWING			EP-6250-HB-UD-33			
PLOT PLAN			28P2-B-3MG-PLN-SOL-000000-CV-001			
CABLE ROUTE LAYOUT			28P2-B-3MG-E33-SOL-460001-EL-197			
- - - -			- - - -			
NOTES						
1- ALL DIMENSIONS ARE IN mm & ELEVATION ARE IN METER.						
LEGEND						
T.O.F. = TOP OF FOUNDATION B.O.F. = BOTTOM OF FOUNDATION T.O.P. = TOP OF PLATE F.F.L. = FINAL FINISHED LEVEL						
05	2026/04	ACC TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOUR
04	2026/03	ACC TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOUR
03	2026/01	ACC TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOUR
02	2026/01	ACC TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOUR
01	2025/12	ACC TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOUR
00	2025/11	FIRST ISSUE	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOUR
REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED
Client:			Consultant:			
						
			Contractor:		Sub Contractor:	
						
Project: 100MW Solar Power Plant (SARCHESHME )						
Title: MV TURNKEY STATION STRUCTURAL DESIGN MV TRUNKY STATION-STRUCTURAL DESIGN (CALCULATION REPORT & DRAWINGS)						
DOC NO.:	28P2-B-3MG-DCR-SOL-020000-ST-163				REV.	
					05	
SCALE		SIZE	SHEET		FORMAT	
			09 OF 10		DWG	





REFERENCE						
REFERENCE. TITLE			REFERENCE. No.			
6.25MW FOUNDATION DRAWING			EP-6250-HB-UD-33			
PLOT PLAN			28P2-B-3MG-PLN-SOL-000000-CV-001			
CABLE ROUTE LAYOUT			28P2-B-3MG-E33-SOL-460001-EL-197			
- - - -			- - - -			
NOTES						
1- ALL DIMENSIONS ARE IN mm & ELEVATION ARE IN METER.						
LEGEND						
T.O.F. = TOP OF FOUNDATION B.O.F. = BOTTOM OF FOUNDATION T.O.P. = TOP OF PLATE F.F.L. = FINAL FINISHED LEVEL						
05	2026/04	ACC TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOUR
04	2026/03	ACC TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOUR
03	2026/01	ACC TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOUR
02	2026/01	ACC TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOUR
01	2025/12	ACC TO COMMENT	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOUR
00	2025/11	FIRST ISSUE	BARJASTE	NIKBAKHT	KHAKPOUR	DANESHPOUR
REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED
Client:			Consultant:			
						
			Contractor:		Sub Contractor:	
						
Project: 100MW Solar Power Plant (SARCHESHME )						
Title: MV TURNKEY STATION STRUCTURAL DESIGN						
MV TRUNKY STATION-STRUCTURAL DESIGN (CALCULATION REPORT & DRAWINGS)						
DOC NO.:	28P2-B-3MG-DCR-SOL-020000-ST-163					REV.
						05
SCALE		SIZE	SHEET		FORMAT	
			10 OF 10		DWG	