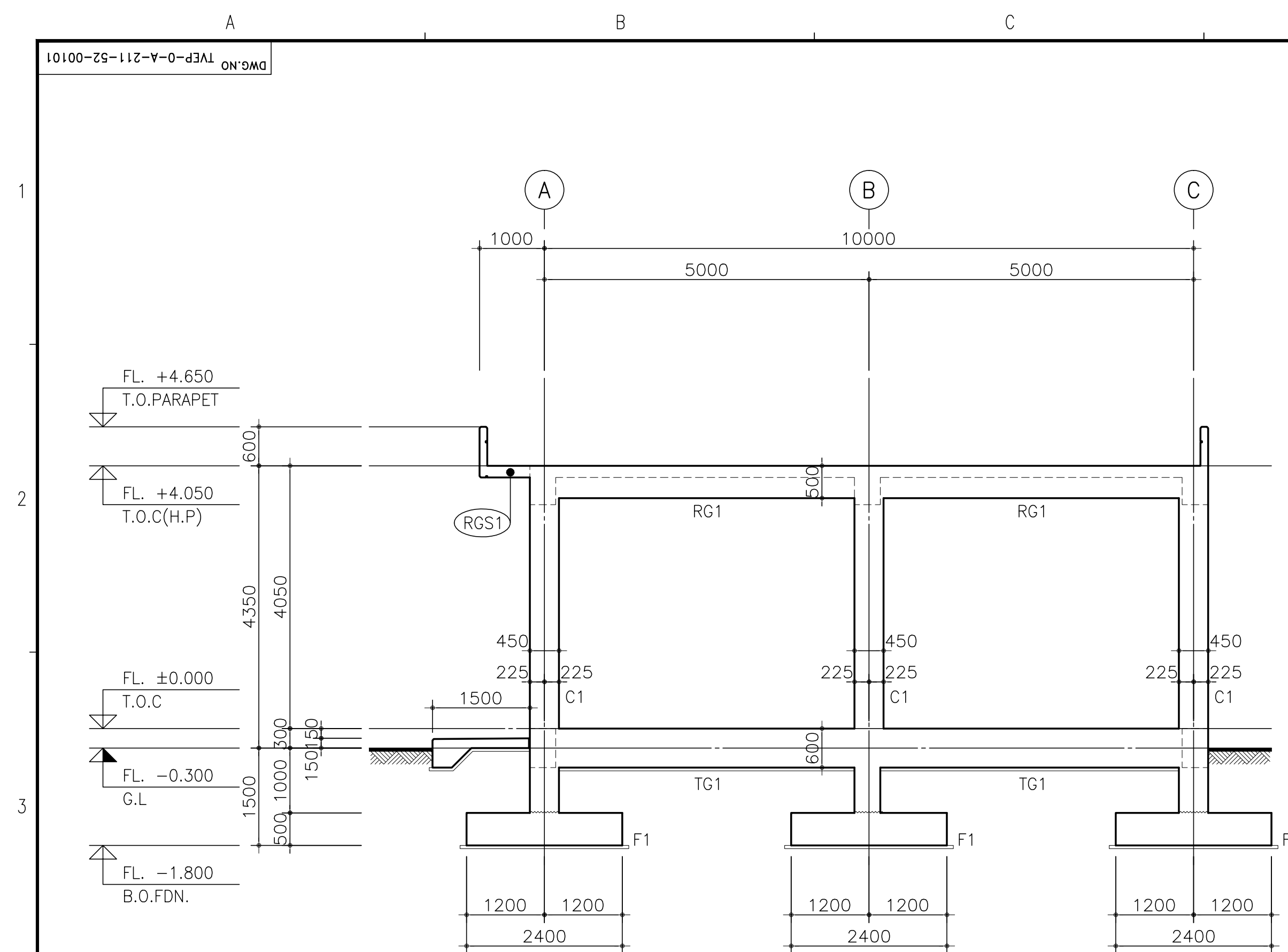
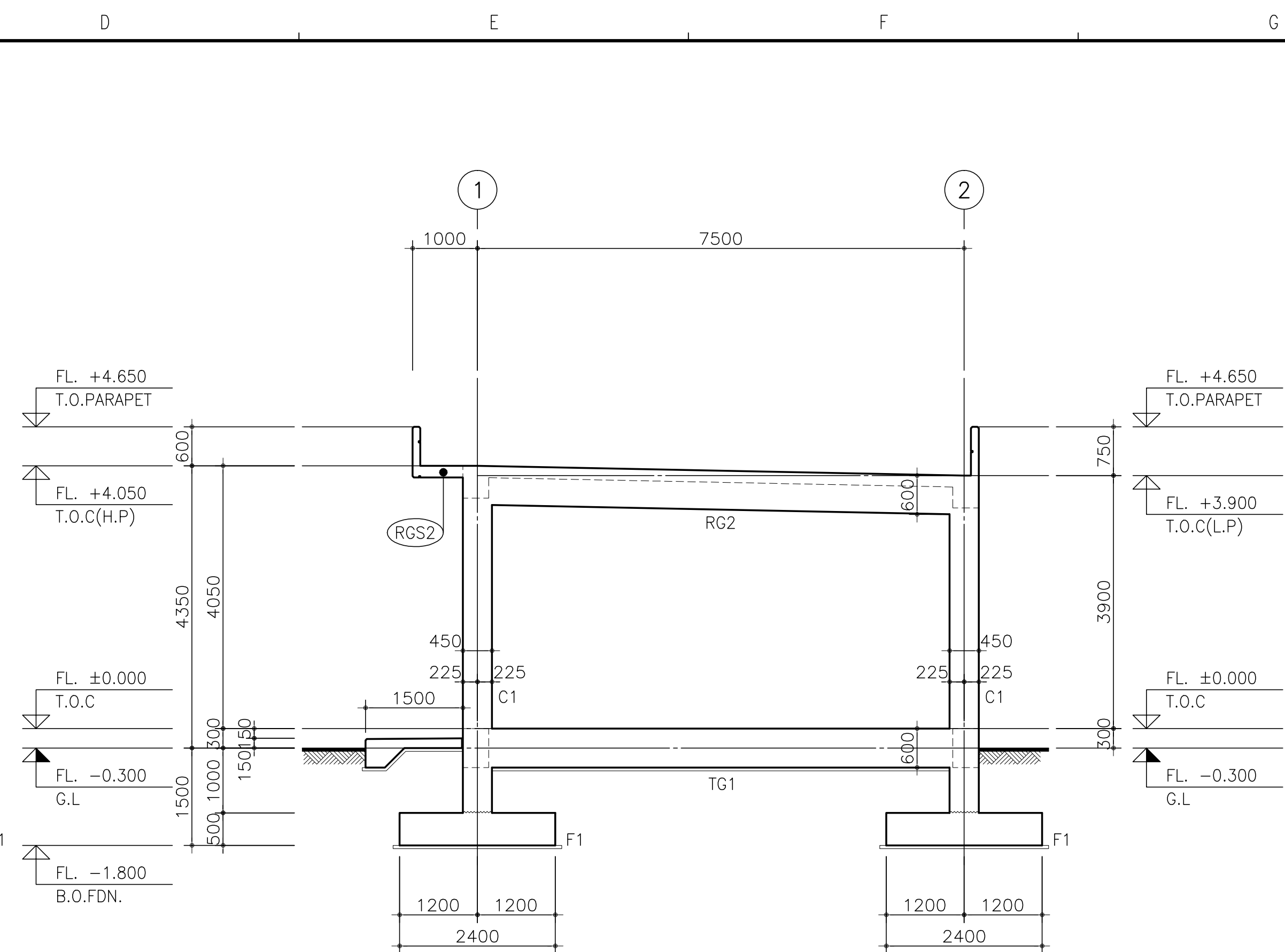
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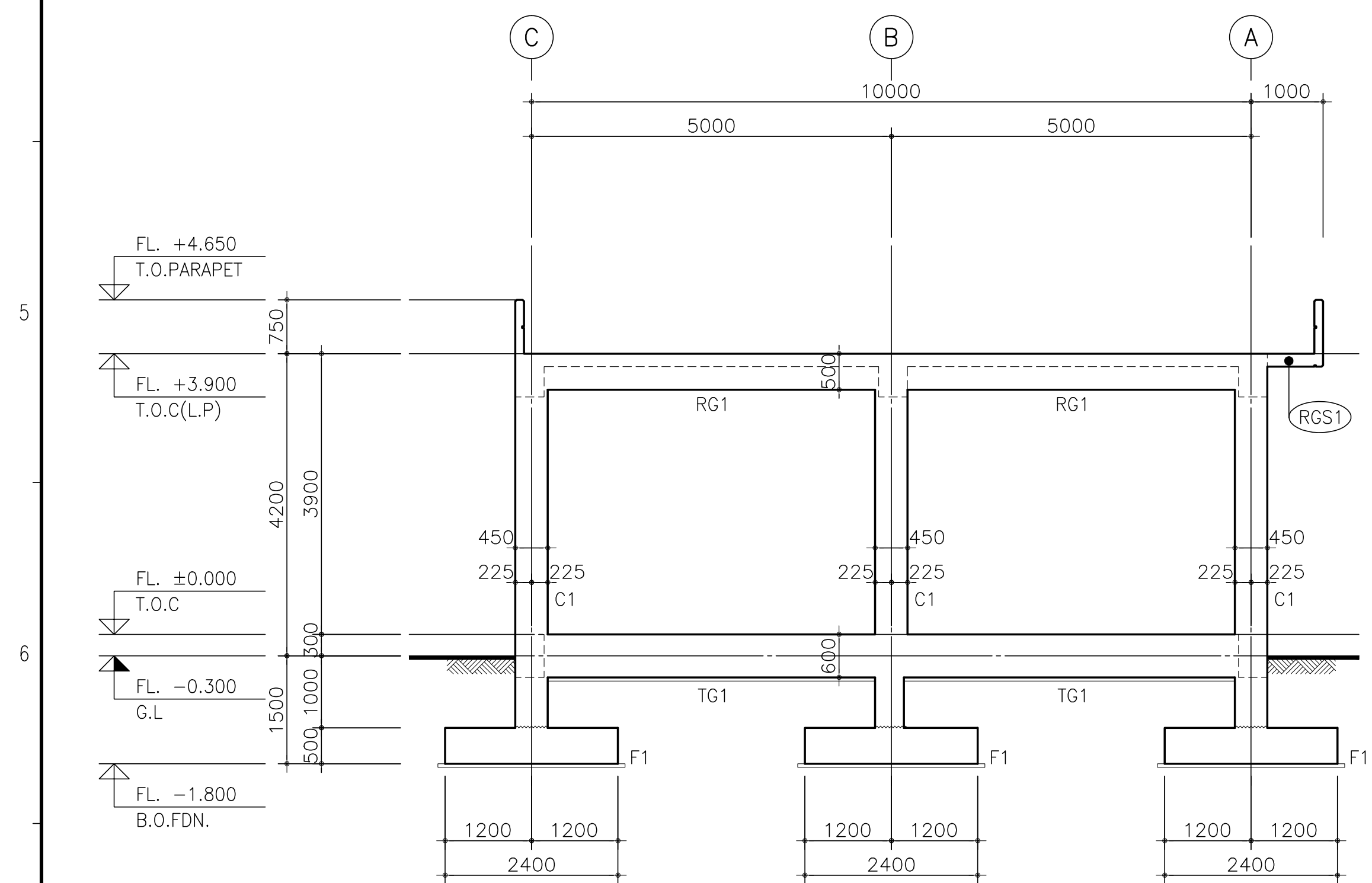
SCALE	PROJECT NO.	DRAWING NUMBER	REV.
1/60	-	TVEP-0-A-211-52-00001	AB



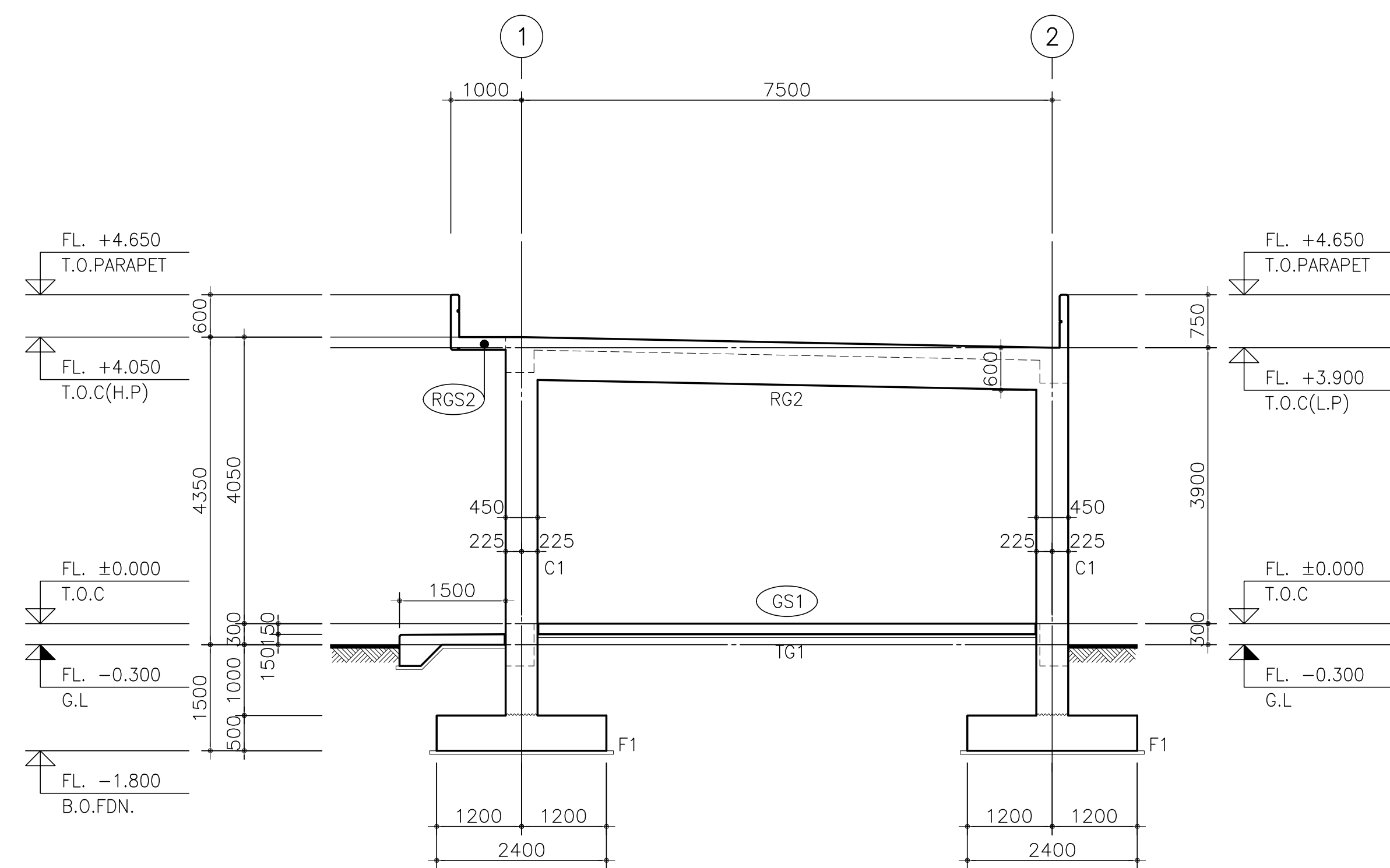
1 "1" ROW FRAMING SECTION  
SCALE : 1/60



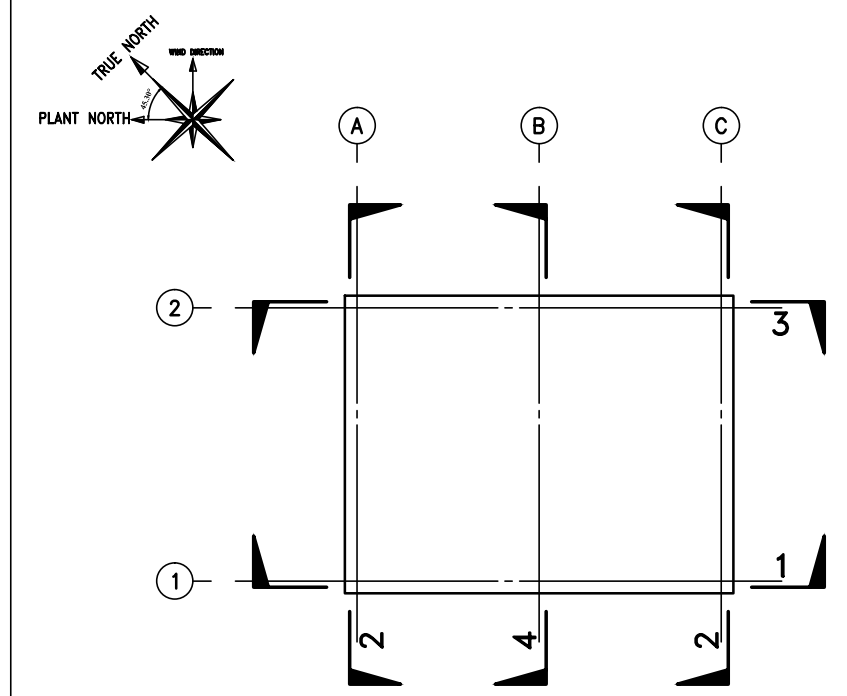
2 "A", "C" LINE FRAMING SECTION  
- SCALE : 1/60



3 "2" ROW FRAMING SECTION  
- SCALE : 1/60



4 "B" LINE FRAMING SECTION  
- SCALE : 1/60



## KEY PLAN

NOTE.

1. ALL DIMENSIONS ARE IN MM & LEVELS ARE IN M.
2.  $GL \pm 0.00 = EL \pm 0.00$   
 $FL \pm 0.00 = GL \pm 0.30 = EL \pm 0.30$
3. FOR STRUCTURE GENERAL NOTES, STRUCTURAL DETAILS  
SEE DWG. NO. TVEP-0-A-200-52-00001~00301  
UNLESS OTHERWISE NOTED.
4. FOR OTHER NOTES, SEE DWG.  
NO. TVEP-0-A-211-52-00001






REF. DWG'S/DOC'S

TVEP-0-A-211-55-00001  
: MAIN GATE SECURITY BUILDING/  
STRUCTURAL CALCULATION SHEETS

## MEMBER LIST

MARK	SIZE	B.O.FDN.	REMARK
F1	2400x2400x500	FL. -1.800	
C1	450 x 450		
TG1	400 x 600		
RG1	400 x 500		
RG2	400 x 600		
GS1	THK. 150		
RCS1,RCS2	THK. 180		

## AS-BUILT

				
	OCT.31.'17	AS-BUILT - INITIAL SUBMISSION	J.W.KIM	J.N.BAE G.B.PARK
	JAN.11.'17	REVISED AS MARKED	J.W.KIM	J.N.BAE G.B.PARK
	MAY.13.'16	ISSUED FOR CONSTRUCTION	J.W.KIM	J.N.BAE G.B.PARK
	FEB.02.'16	ISSUED FOR APPROVAL	J.W.KIM	J.N.BAE G.B.PARK
REV.	DATE	DESCRIPTION	DSGN	CHKD APPD

OWNER:



Therma Visayas, Inc.,

EPC CONTRACTOR:

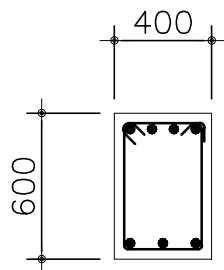
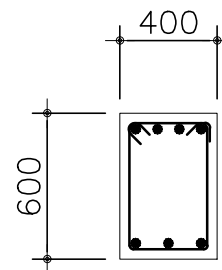
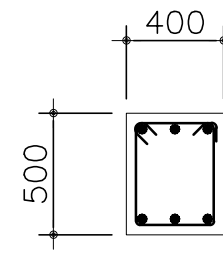
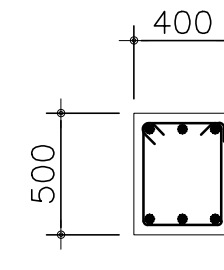
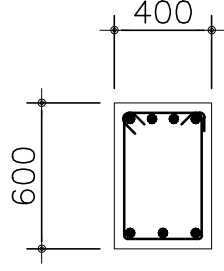
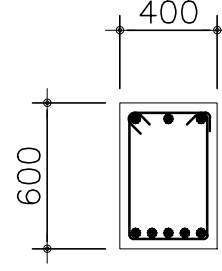


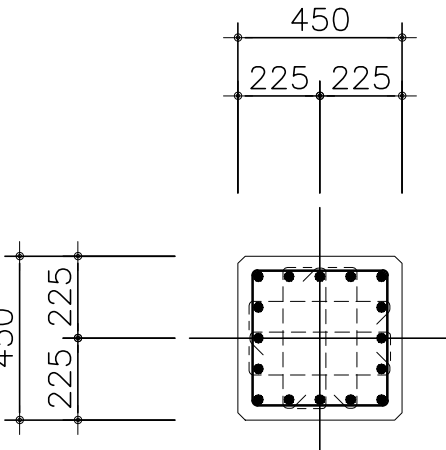
PROJECT:

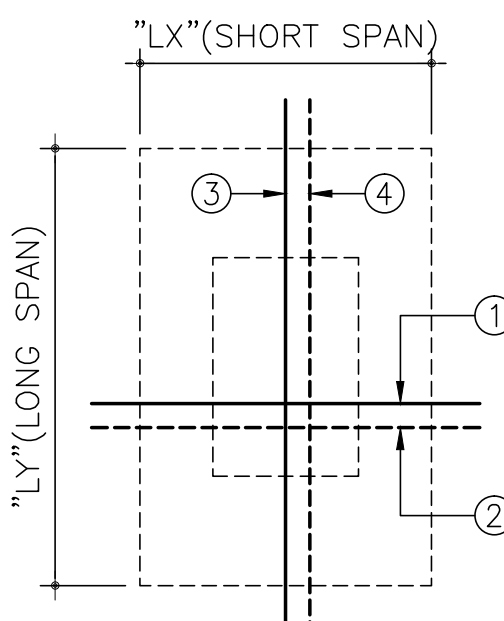
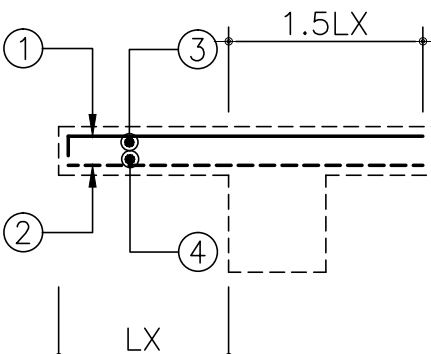
Therma Visayas Energy Project

DESIGNED BY	DATE	TITLE:		
J.W.KIM	JAN.11.'17	MAIN GATE SECURITY BUILDING		
CHECKED BY	DATE	FRAMING SECTION		
J.N.BAE	JAN.11.'17			
APPROVED BY	DATE			
G.B.PARK	JAN.11.'17			
SCALE	PROJECT NO.	DRAWING NUMBER	REV.	
1/60	-	TVEP-0-A-211-52-00101	AB	



A		B		
10000-00-A-11Z-V-0-d3A1		ON'SMG		
MARK	TG1		RG1	
	BOTH END	CENTER	BOTH END	CENTER
				
	TOP BAR	4 - D20	4 - D20	3 - D20
	BOTT. BAR	3 - D20	3 - D20	3 - D20
STIRRUP	2-D10 @120	2-D10 @150	2-D10 @100	2-D10 @200
MARK	RG2			
	BOTH END	CENTER		
				
	TOP BAR	4 - D20	3 - D20	
	BOTT. BAR	3 - D20	5 - D20	
STIRRUP	2-D10 @120	2-D10 @200		
1	GIRDER RE-BAR LIST			SCALE : 1/30

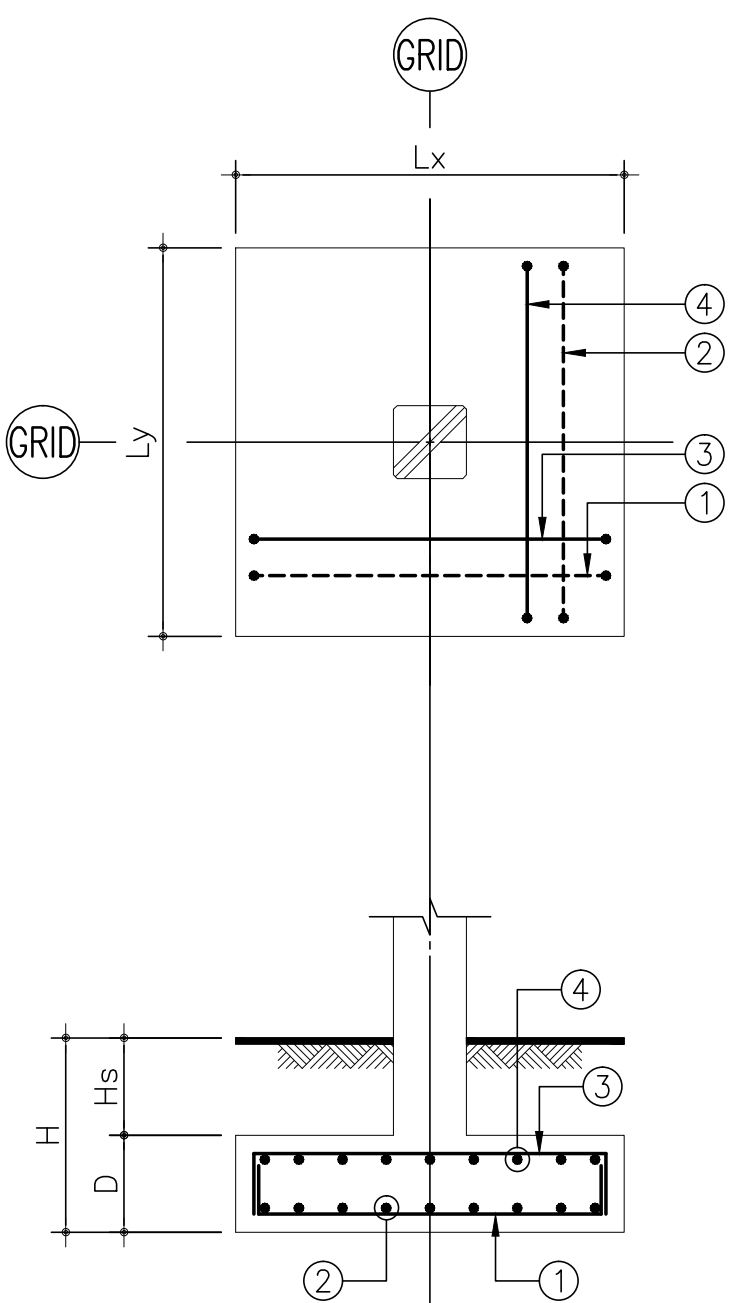
MARK	C1
SECTION	
MAIN BAR	16-D20
HOOP (MID)	D12 @100
HOOP (END)	D12 @100
DIA. HOOP	D12 @100
2	COLUMN RE-BAR LIST
SCALE : 1/20	

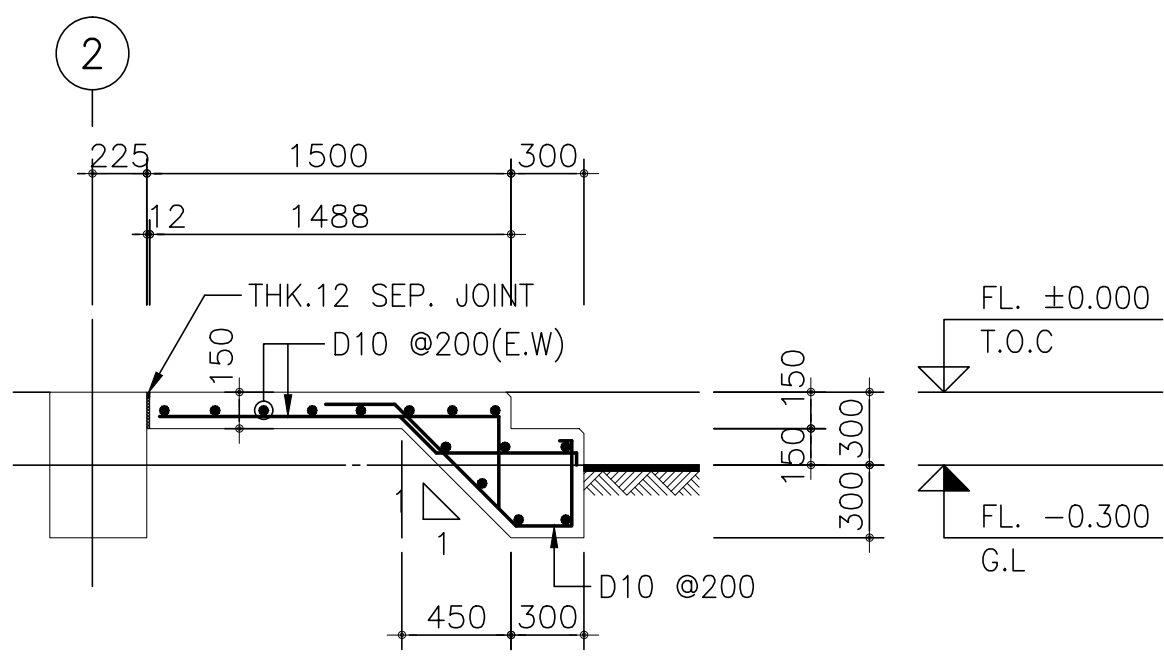
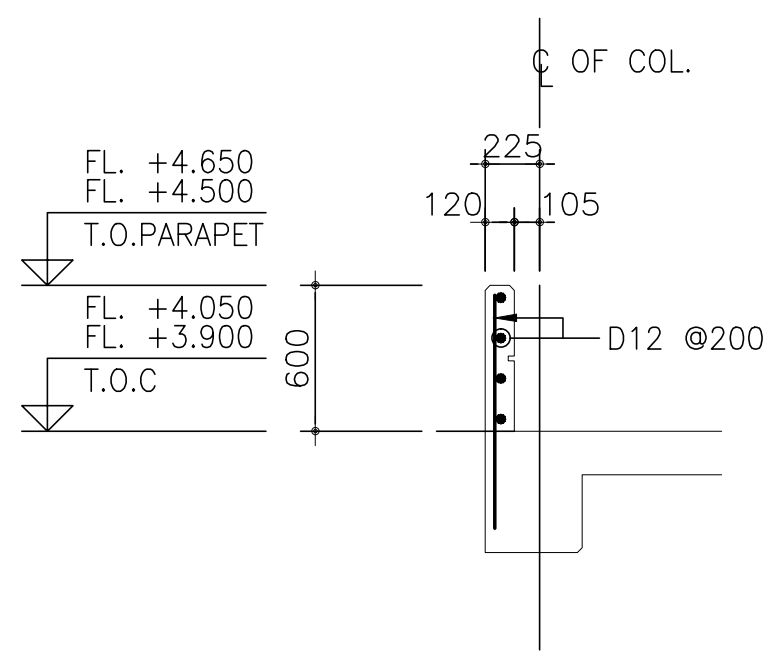
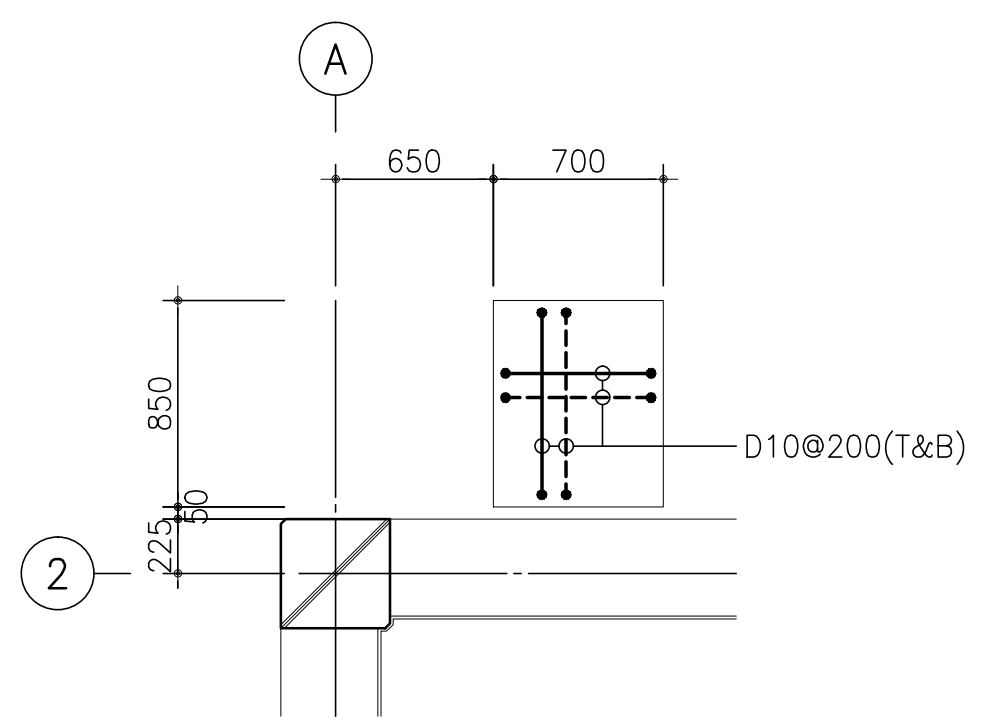
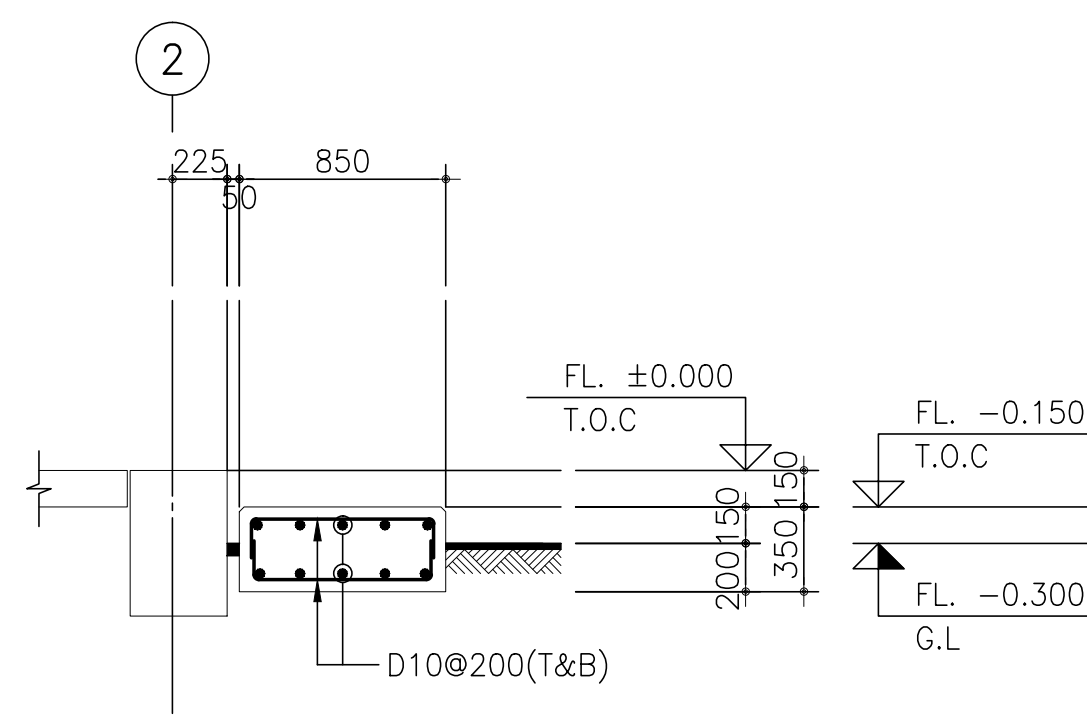
TYPE 1			TYPE 2														
																	
<table border="1"><tr><td>TOP</td><td>①</td><td>③</td></tr><tr><td>BOTTOM</td><td>②</td><td>④</td></tr></table>			TOP	①	③	BOTTOM	②	④	<table border="1"><tr><td>TOP</td><td>①</td><td>③</td></tr><tr><td>BOTTOM</td><td>②</td><td>④</td></tr></table>			TOP	①	③	BOTTOM	②	④
TOP	①	③															
BOTTOM	②	④															
TOP	①	③															
BOTTOM	②	④															
MARKS	THK.	TYPE	REINF. BAR ARRANGEMENT				REMARKS										
			SHORT SPAN		LONG SPAN												
			1	2	3	4											
GS1	150	1	D10 @300	D10 @300	D10 @300	D10 @300											
RS1	180	1	D12 @150	D12 @150	D10 @200	D10 @200											
RCS1	180	2	D12 @150	D12 @150	D10 @200	D10 @200											
RCS2	180	2	D10 @200	D10 @200	D10 @200	D10 @200											

3

SLAB RE-BAR LIST

SCALE : NONE

TYPE-A							
<div></div>							
MARK	TYPE	Lx X Ly	D	H	RE-BAR		REMARK
					1 , 2	3 , 4	
F1	A	2400x2400	500	1500	D22 @250	D12 @250	
4	FOUNDATION RE-BAR LIST						SCALE : 1/30

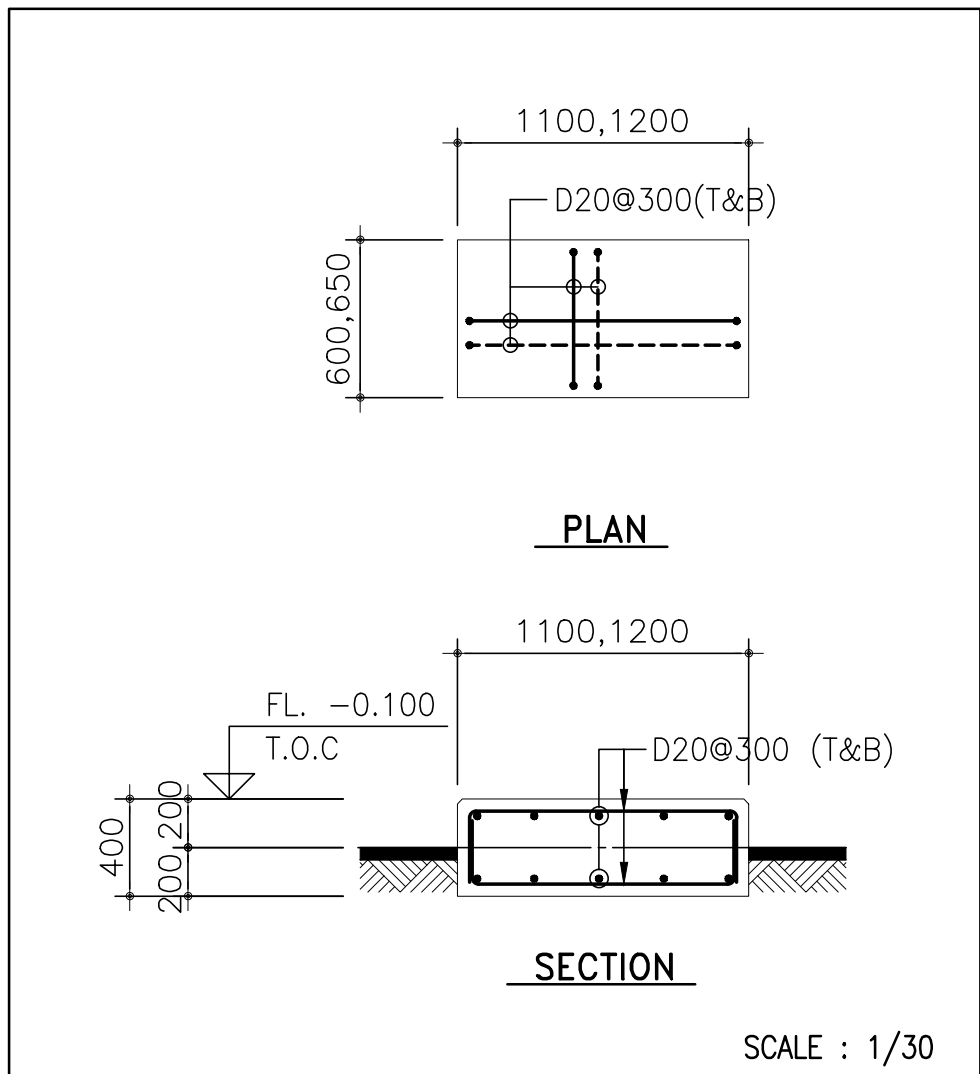
					
5	STOOP RE-BAR DETAIL	SCALE : 1/30	6	PARAPET RE-BAR DETAIL	SCALE : 1/30
					
PLAN		SECTION			
7	LADDER PAD RE-BAR DETAIL	SCALE : 1/30			

**NOTE.**

- ALL DIMENSIONS ARE IN MM & LEVELS ARE IN M.
- GL±0.00 = EL±0.00  
FL±0.00 = GL+0.30 = EL+0.30
- FOR STRUCTURE GENERAL NOTES, STRUCTURAL DETAILS SEE DWG. NO. TVEP-0-A-200-52-00001~00301 UNLESS OTHERWISE NOTED.

**REF. DWG'S/DOC'S**

TVEP-0-A-211-55-00001  
: MAIN GATE SECURITY BUILDING/  
STRUCTURAL CALCULATION SHEETS



8	ACCU. FDN. RE-BAR DETAIL
---	--------------------------

## AS-BUILT

REV.	DATE	DESCRIPTION	DSGN	CHKD	APPD
△	OCT.31.'17	AS-BUILT - INITIAL SUBMISSION	J.W.KIM	J.N.BAE	G.B.PARK
△	SEP.28.'16	REVISED AS MARKED	J.W.KIM	J.N.BAE	G.B.PARK
△	MAY.13.'16	ISSUED FOR CONSTRUCTION	J.W.KIM	J.N.BAE	G.B.PARK
△	FEB.02.'16	ISSUED FOR APPROVAL	J.W.KIM	J.N.BAE	G.B.PARK

OWNER:

 **Therma Visayas, Inc.,**

EPC CONTRACTOR:

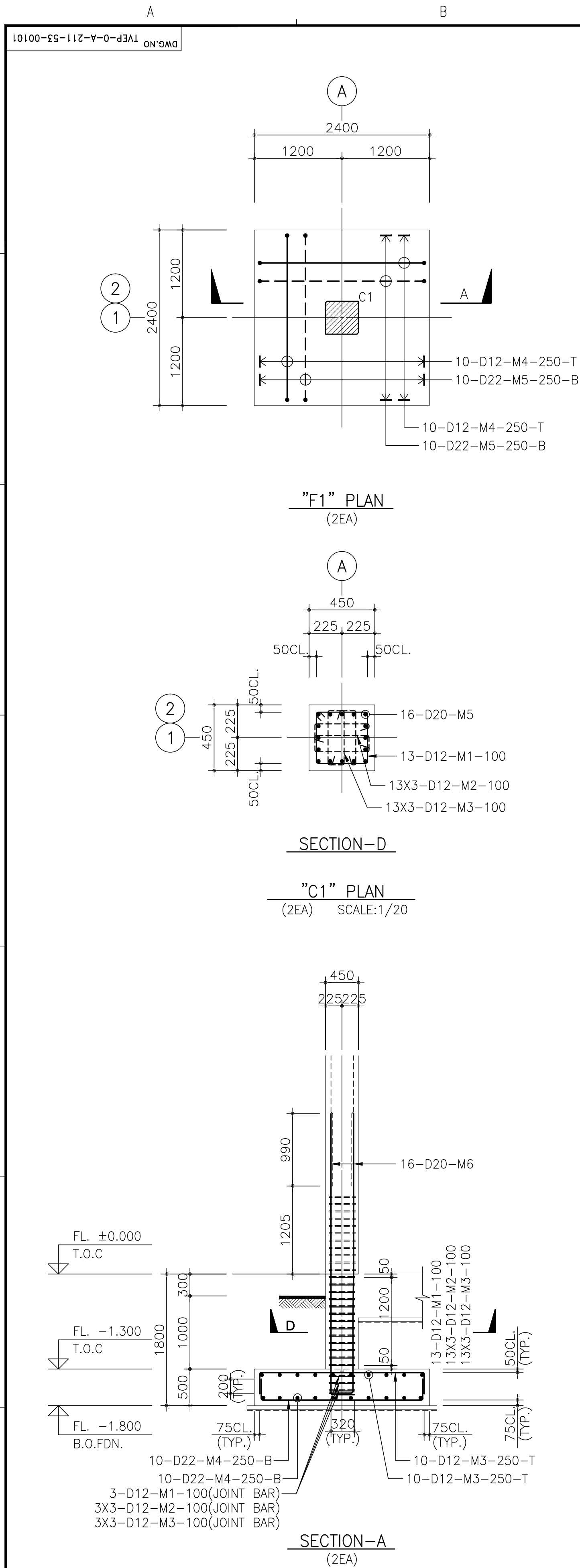
 **HYUNDAI ENGINEERING CO., LTD.**

PROJECT:

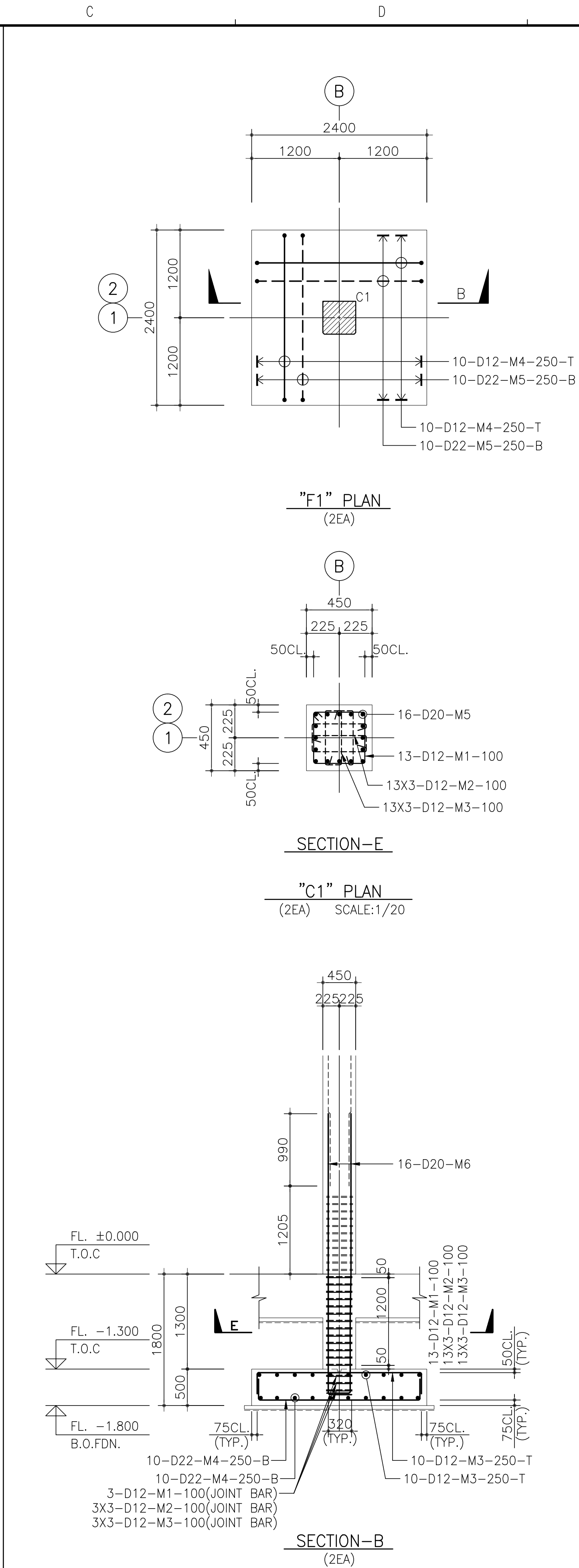
**Therma Visayas Energy Project**

DESIGNED BY	DATE	TITLE:
J.W.KIM	SEP.28.'16	MAIN GATE SECURITY BUILDING
CHECKED BY	DATE	
J.N.BAE	SEP.28.'16	MEMBER RE-BAR LIST
APPROVED BY	DATE	
G.B.PARK	SEP.28.'16	

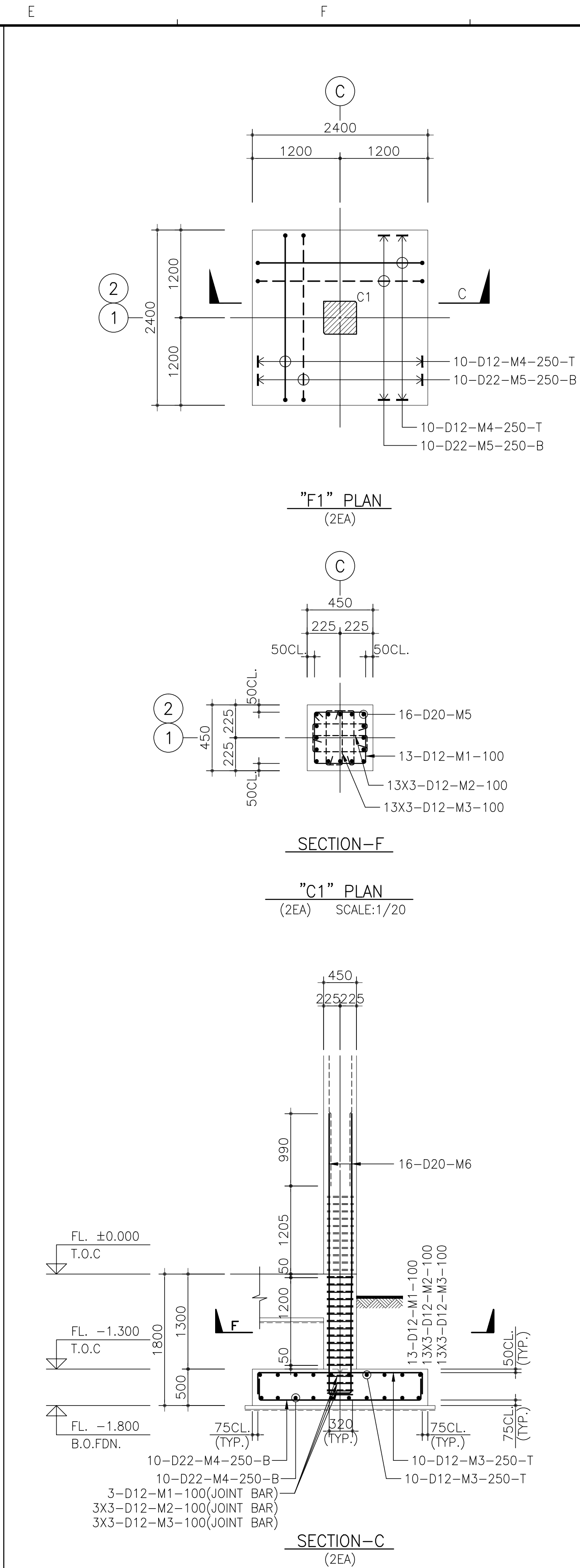
SCALE	PROJECT NO.	DRAWING NUMBER	REV.
AS SHOWN	-	TVEP-0-A-211-53-00001	AB



1 F1(2EA)/C1 REINF. DETAIL SCALE : 1/40



2 F1(2EA)/C1 REINF. DETAIL SCALE : 1/40



3 F1(2EA)/C1 REINF. DETAIL SCALE : 1/40

KEY PLAN

NOTE.

- ALL DIMENSIONS ARE IN MM & LEVELS ARE IN M.
- GL±0.00 = EL±0.00  
FL±0.00 = GL+0.30 = EL+0.30
- FOR STRUCTURE GENERAL NOTES, STRUCTURAL DETAILS SEE DWG. NO. TVEP-0-A-200-52-00001~00301 UNLESS OTHERWISE NOTED.  
ALL REBAR DETAILS ARE COMPLIED WITH SPECIAL REINFORCE CONCRETE FRAME REQUIREMENT.
- MATERIALS
  - LEAN CONCRETE :  $f'c=10MPa$   
(CYLINDER,COMPRESSIVE STRENGTH)
  - CONCRETE :  $f'c=28MPa$   
(CYLINDER,COMPRESSIVE STRENGTH)
  - REINFORCING DEFORMED BAR :  $f_y=420MPa$ (Typ.)  
 $f_y=276MPa$ (only for GS1)  
(MIN. YIELD STRENGTH)
- 5 - D14 - M23 - 200 - T/B  
BAR POSITION (TOP/BOTTOM)  
OR OTHER COMMENT  
BAR SPACING IN MM  
BAR MARK ON  
RE-BAR SCHEDULE  
BAR SIZE  
QUANTITY OF BARS
- SOIL BEARING CAPACITY
  - $f_e \geq 100 \text{ kN/m}^2$  (FOR S.O.G SLAB)
  - $f_e \geq 100 \text{ kN/m}^2$  (FOR BUILDING FOUNDATION)

REF. DWG'S/DOC'S

TVEP-0-A-211-55-00001  
: MAIN GATE SECURITY BUILDING/  
STRUCTURAL CALCULATION SHEETS

AS-BUILT

△					
△					
△					
AB	OCT.31.'17	AS BUILT-INITIAL SUBMISSION	J.W.KIM	J.N.BAE	G.B.PARK
△	MAY.13.'16	ISSUED FOR INFORMATION	J.W.KIM	J.N.BAE	G.B.PARK
REV.	DATE	DESCRIPTION	DSGN	CHKD	APPD

OWNER:

Therma Visayas, Inc.,

EPC CONTRACTOR:

HYUNDAI ENGINEERING CO., LTD.

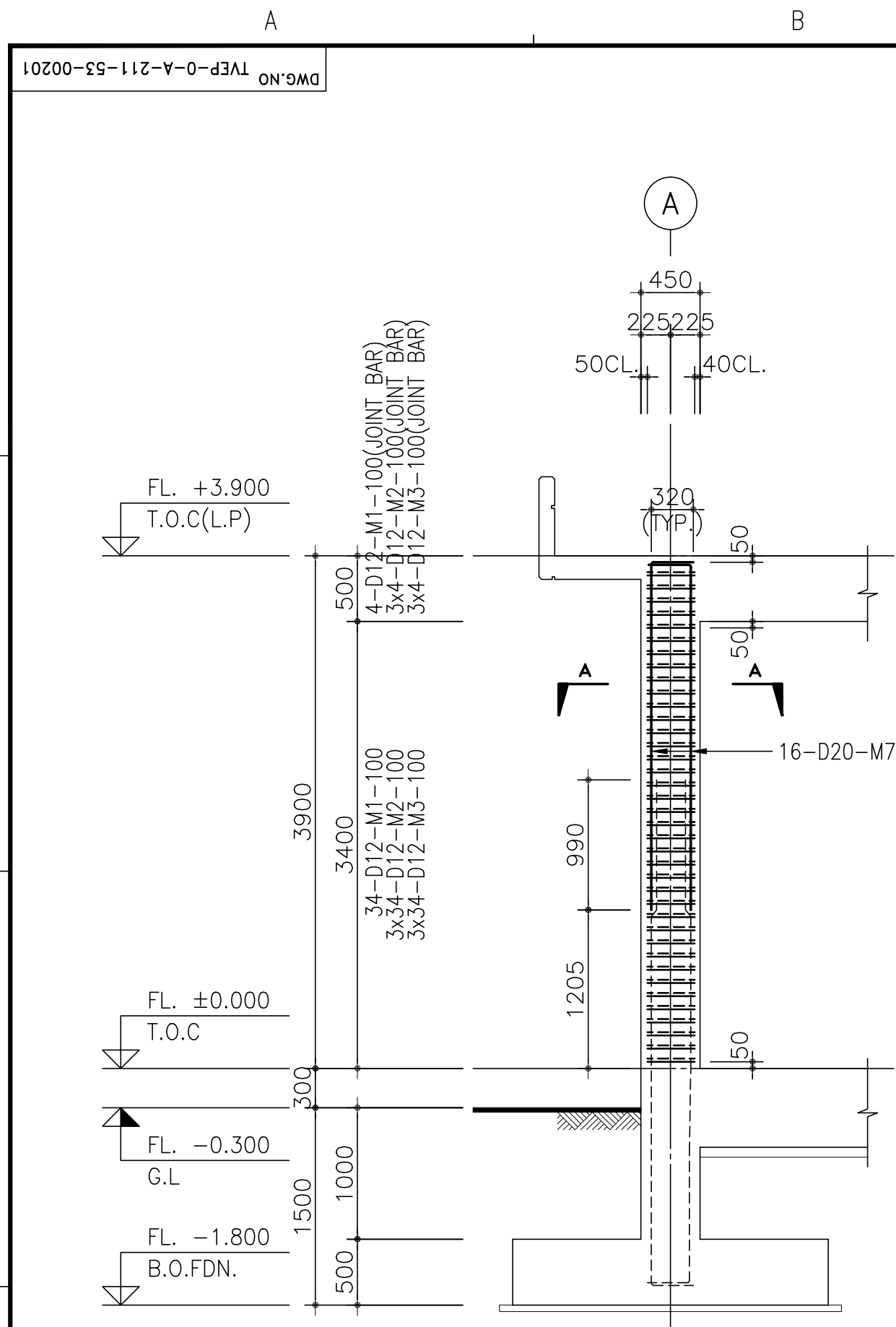
PROJECT:

Therma Visayas Energy Project

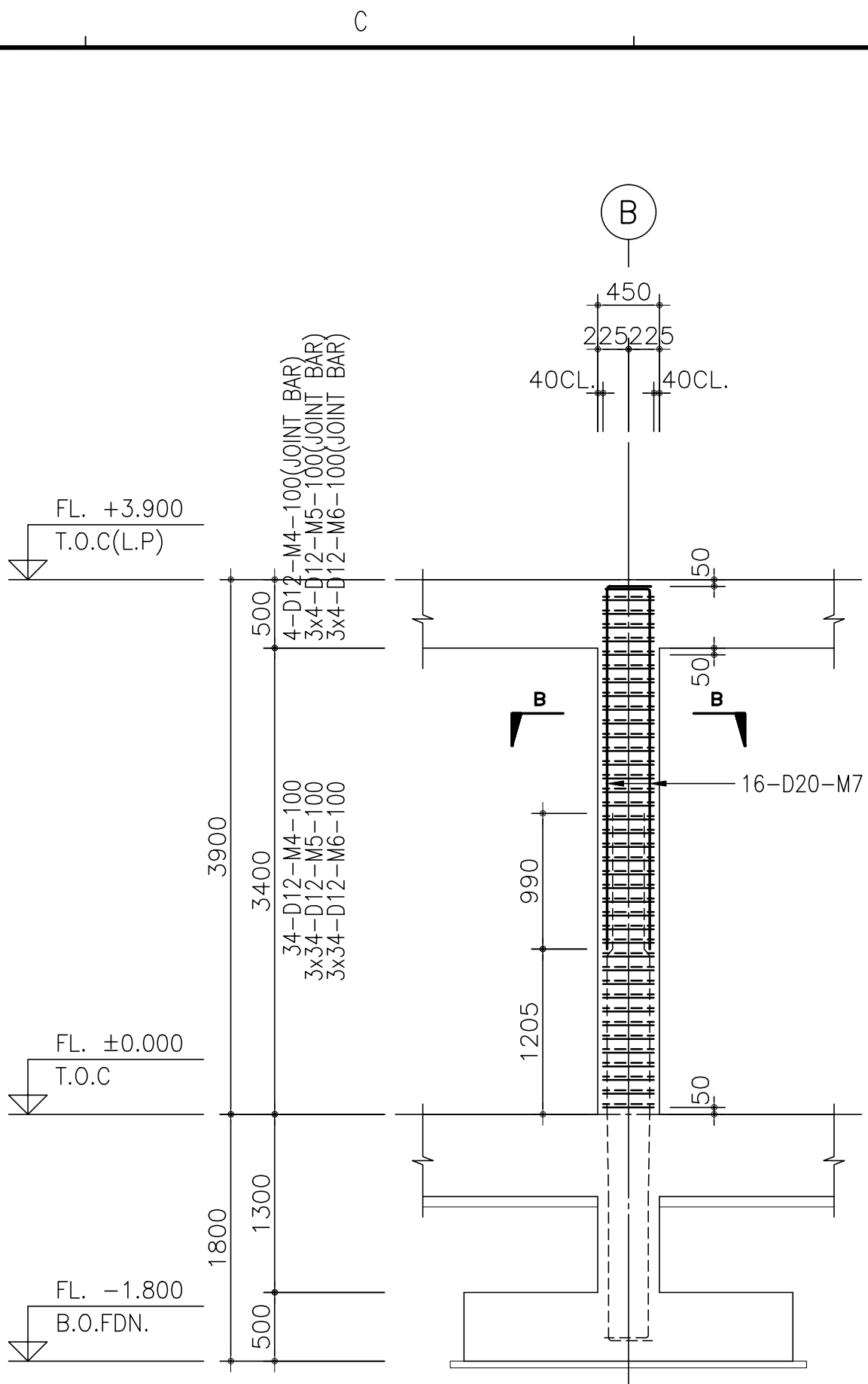
DESIGNED BY	DATE	TITLE:
J.W.KIM	MAY.13.'16	MAIN GATE SECURITY BUILDING FOUNDATION RE-BAR DETAILS
CHECKED BY	DATE	
J.N.BAE	MAY.13.'16	
APPROVED BY	DATE	
G.B.PARK	MAY.13.'16	

SCALE	PROJECT NO.	DRAWING NUMBER	REV.
1/40	-	TVEP-0-A-211-53-00101	AB

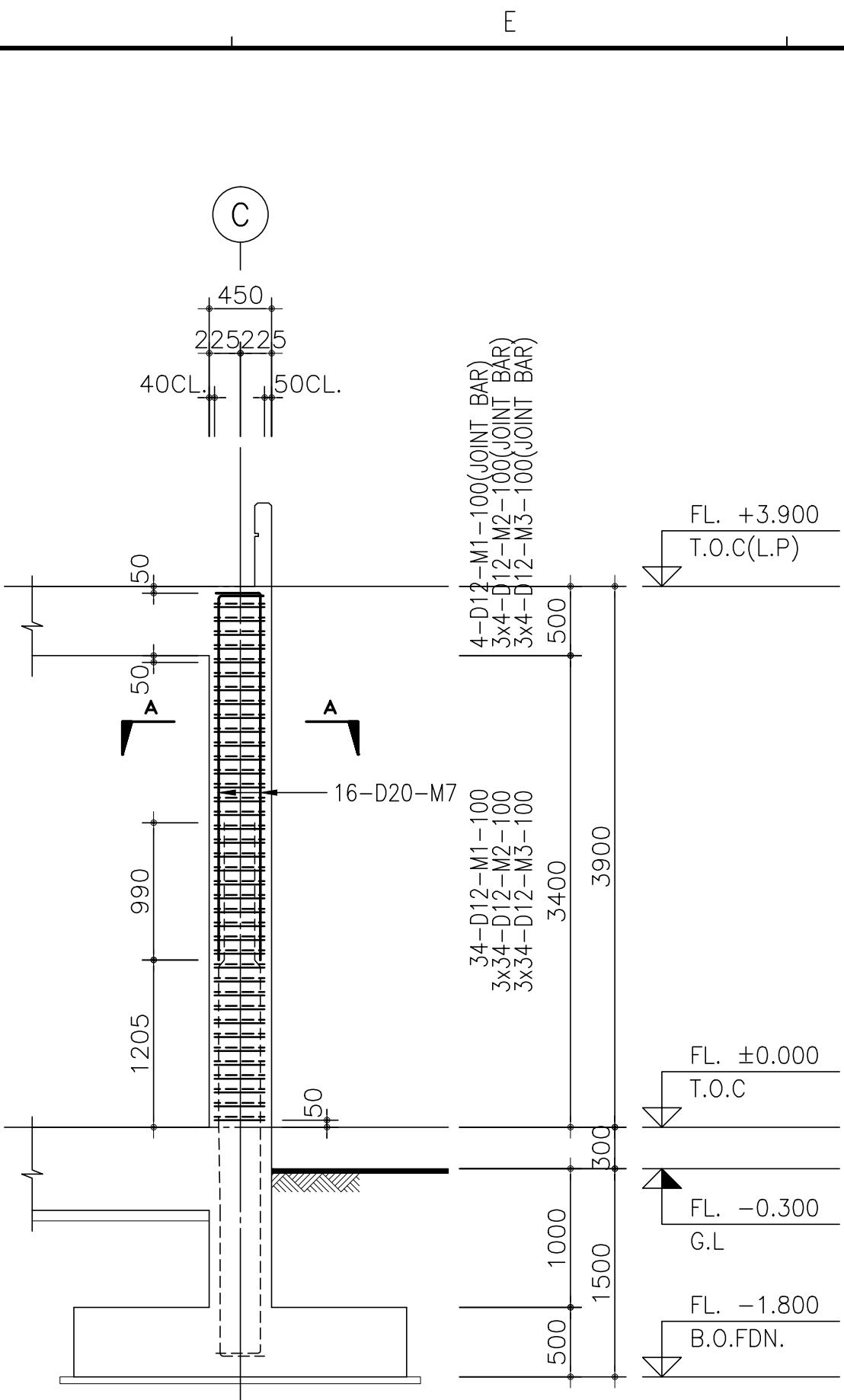




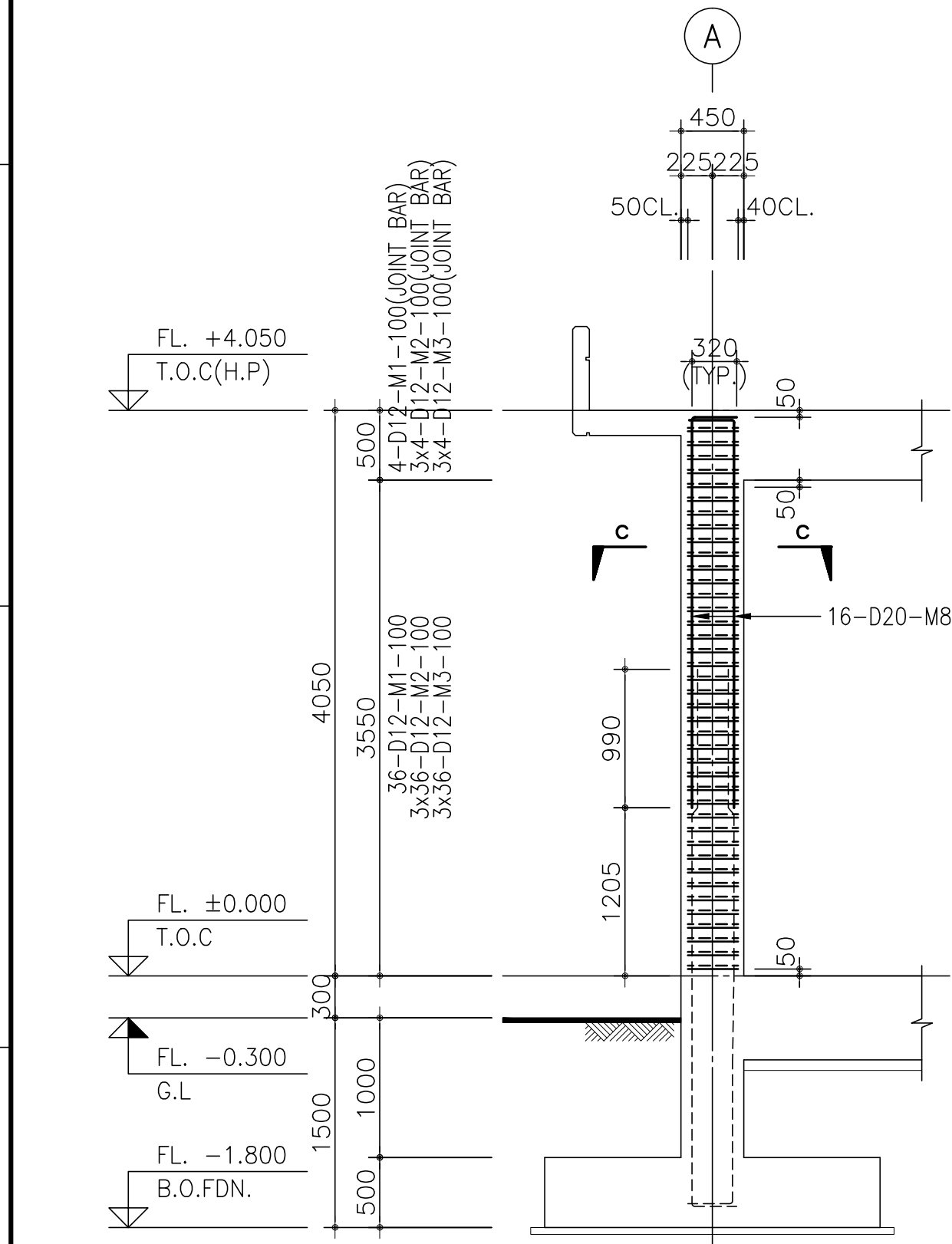
1 "C1" COLUMN REINF. DETAIL  
(1EA) SCALE : 1/40



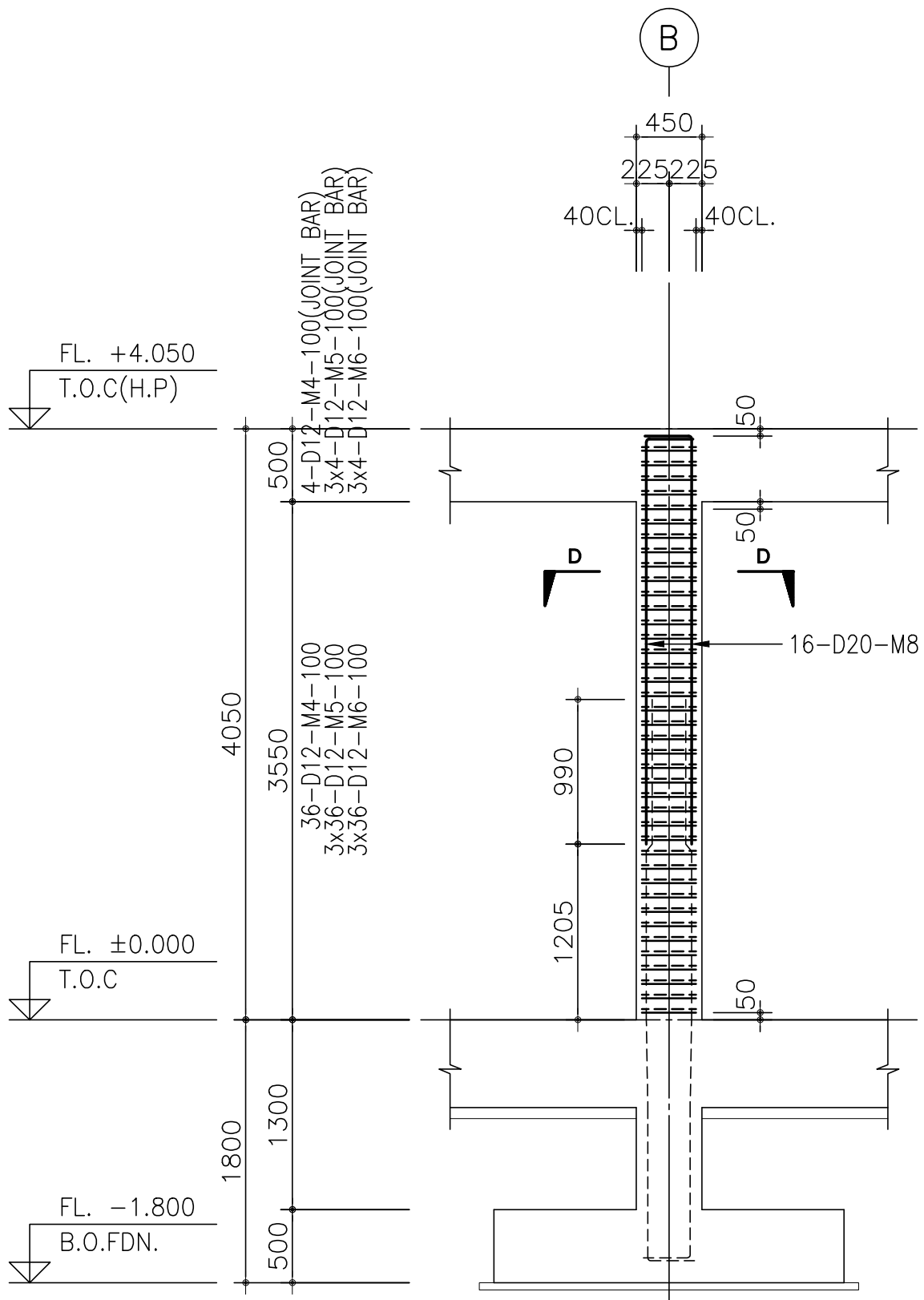
2 "C1" COLUMN REINF. DETAIL  
(1EA) SCALE : 1/40



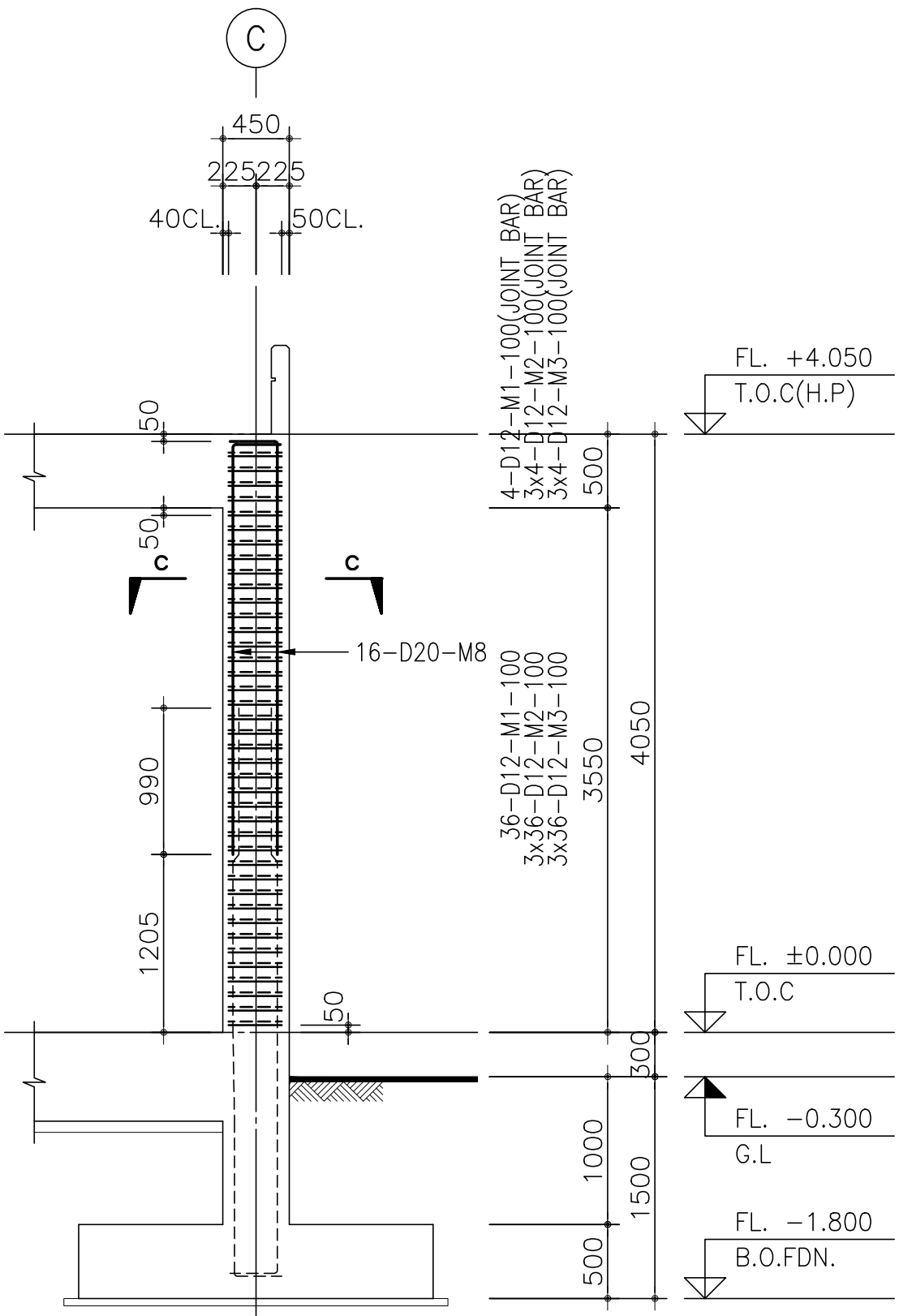
3 "C1" COLUMN REINF. DETAIL  
(1EA) SCALE : 1/40



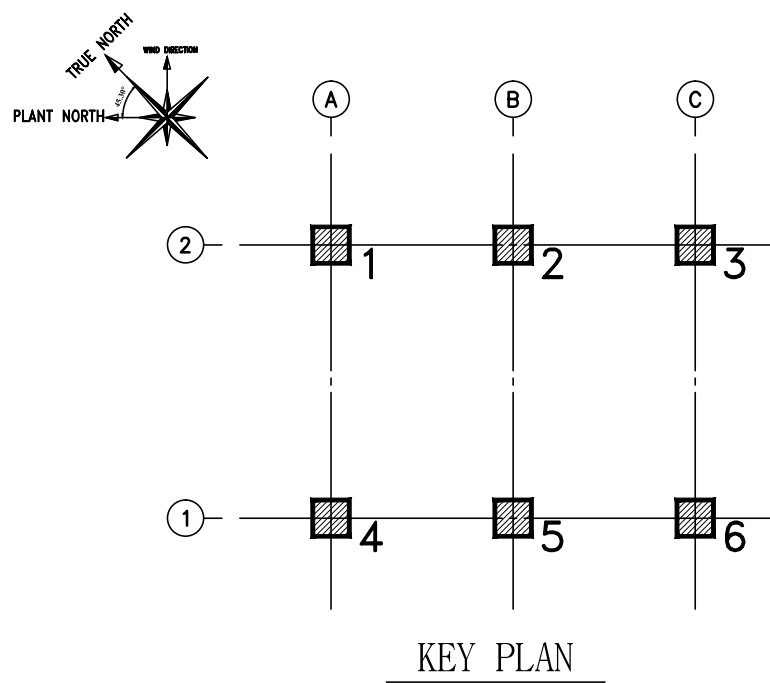
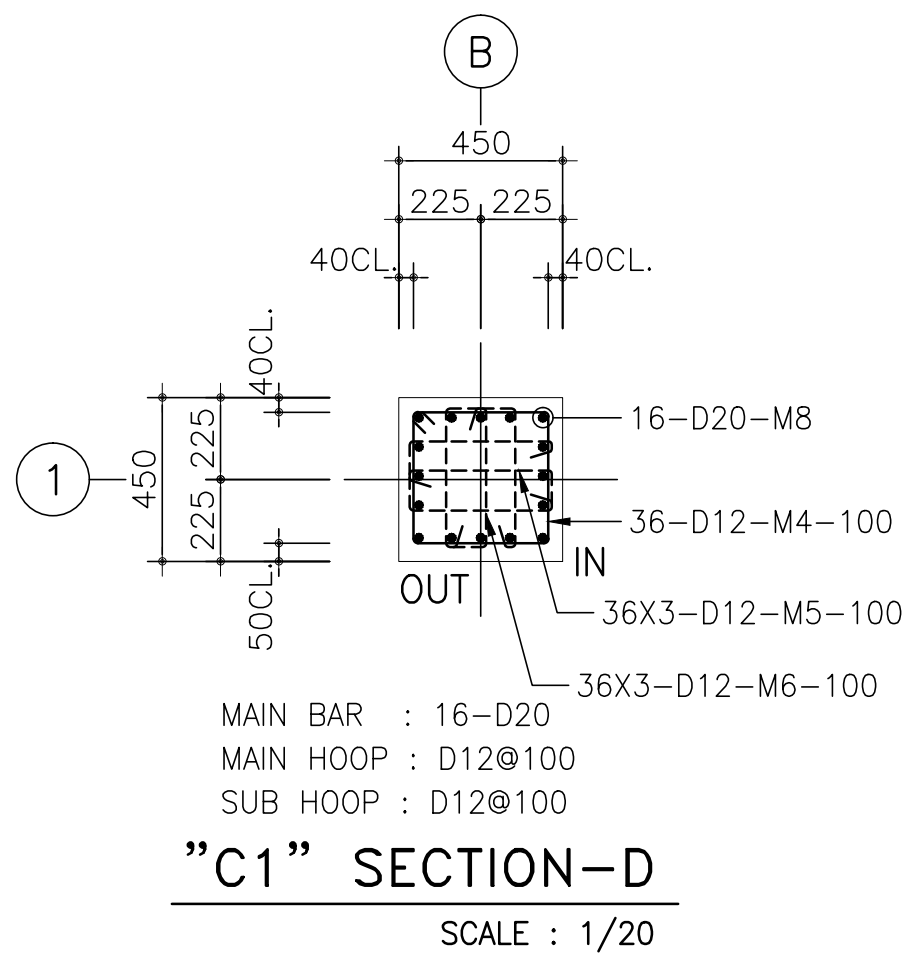
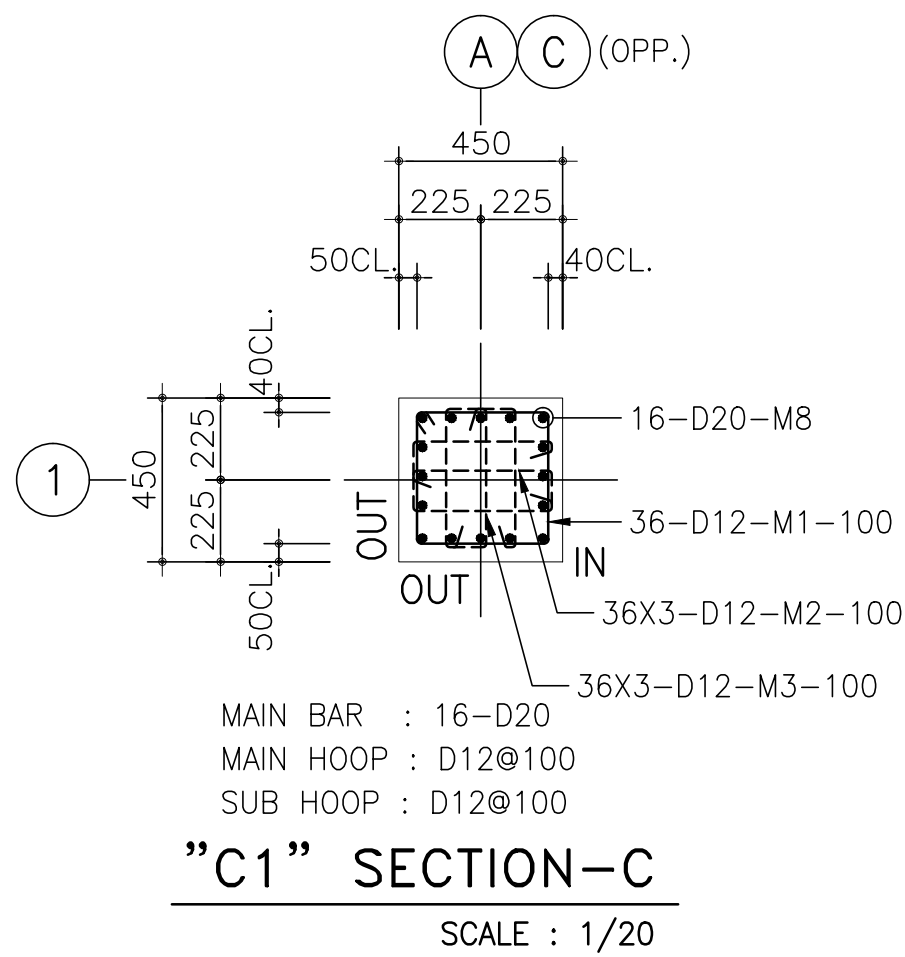
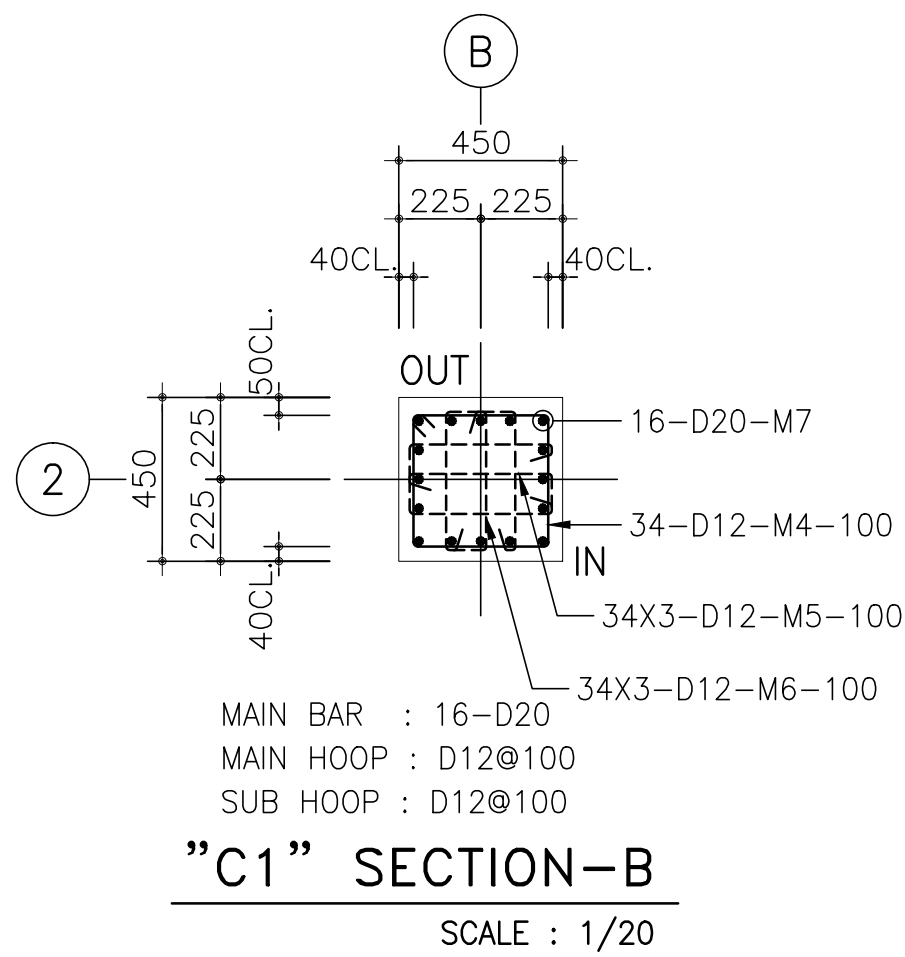
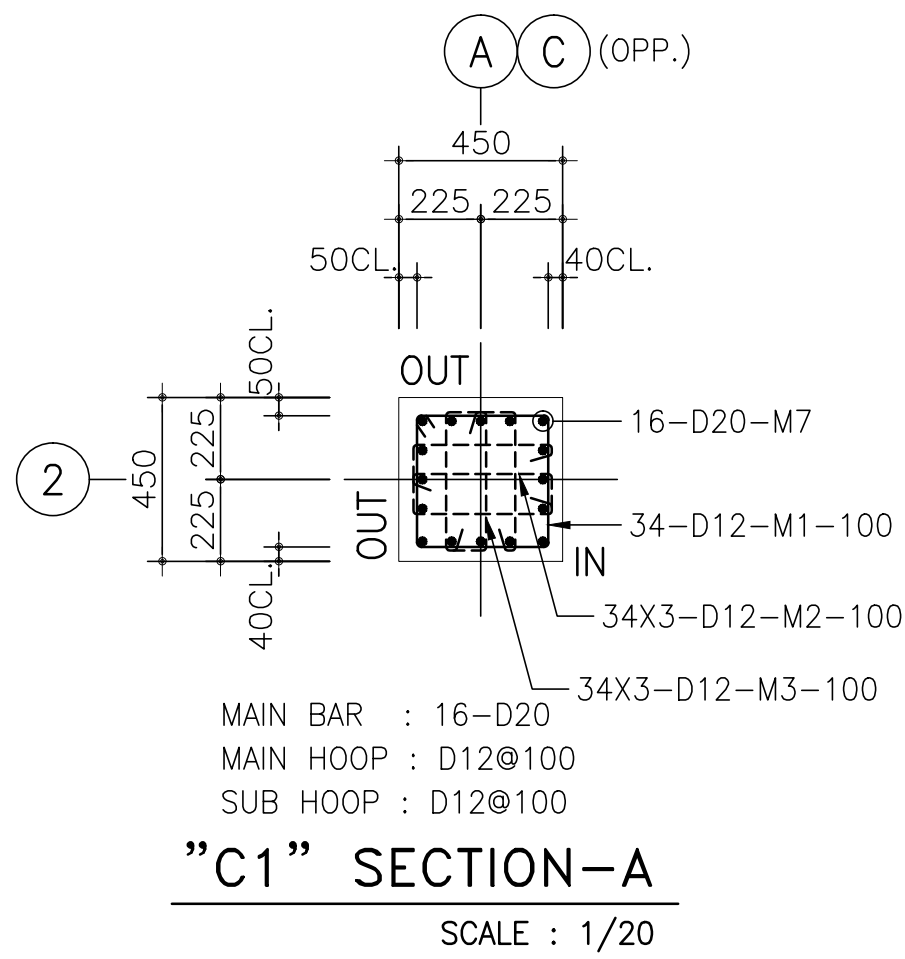
4 "C1" COLUMN REINF. DETAIL  
(1EA) SCALE : 1/40



5 "C1" COLUMN REINF. DETAIL  
(1EA) SCALE : 1/40



6 "C1" COLUMN REINF. DETAIL  
(1EA) SCALE : 1/40



- NOTE.
1. ALL DIMENSIONS ARE IN MM & LEVELS ARE IN M.
  2. GL±0.00 = EL±0.00  
FL±0.00 = GL+0.30 = EL+0.30
  3. FOR NOTES, SEE DWG. NO. TVEP-0-A-211-53-00101

AS-BUILT

△					
△					
△					
AB	OCT.31.'17	AS-BUILT - INITIAL SUBMISSION	J.W.KIM	J.N.BAE	G.B.PARK
△	MAY.13.'16	ISSUED FOR INFORMATION	J.W.KIM	J.N.BAE	G.B.PARK
REV.	DATE	DESCRIPTION	DSGN	CHKD	APPD

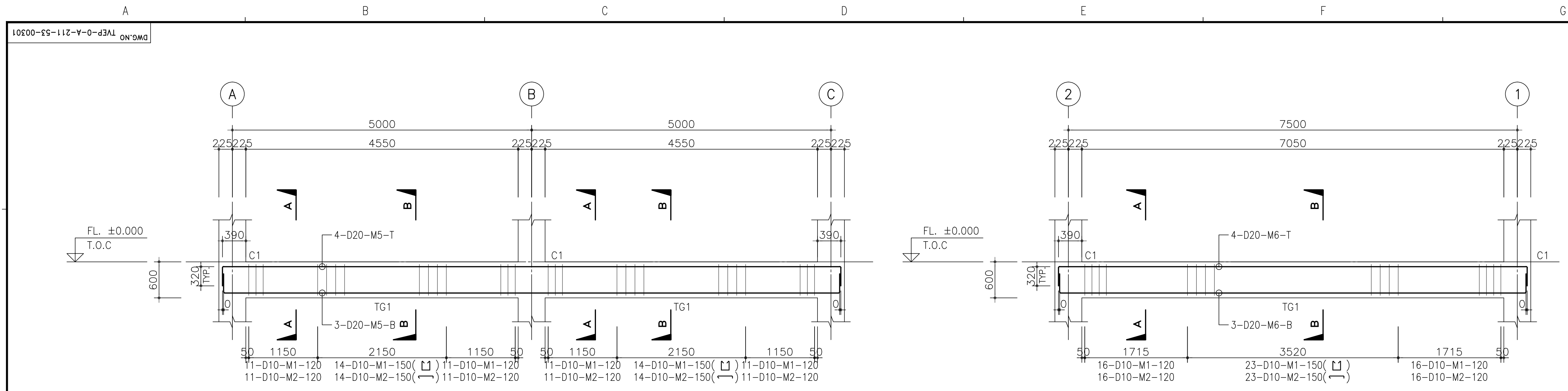
OWNER:  
Therma Visayas, Inc.,

EPC CONTRACTOR:  
HYUNDAI ENGINEERING CO., LTD.

PROJECT:  
Therma Visayas Energy Project

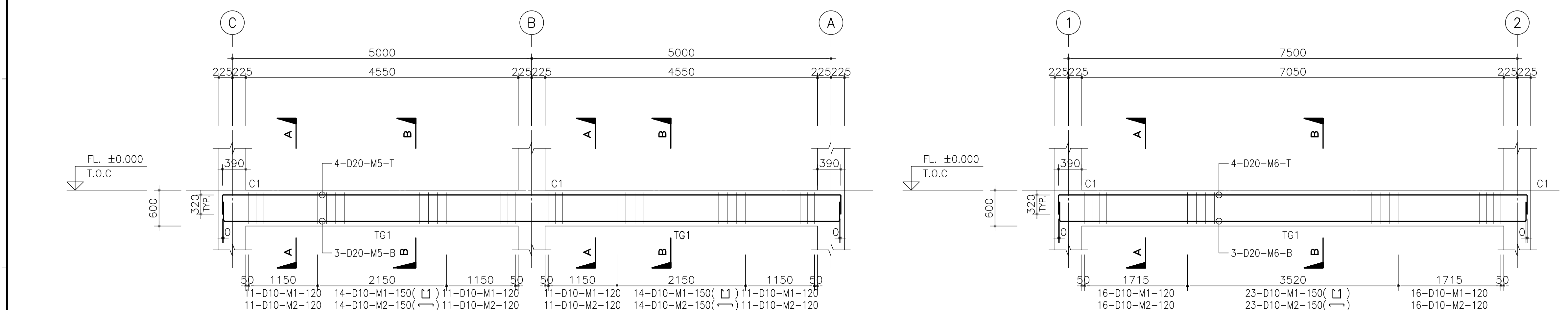
DESIGNED BY	DATE	TITLE:
J.W.KIM	MAY.13.'16	MAIN GATE SECURITY BUILDING
CHECKED BY	DATE	COLUMN RE-BAR DETAILS
J.N.BAE	MAY.13.'16	
APPROVED BY	DATE	
G.B.PARK	MAY.13.'16	

SCALE	PROJECT NO.	DRAWING NUMBER	REV.
1/40	-	TVEP-0-A-211-53-00201	AB



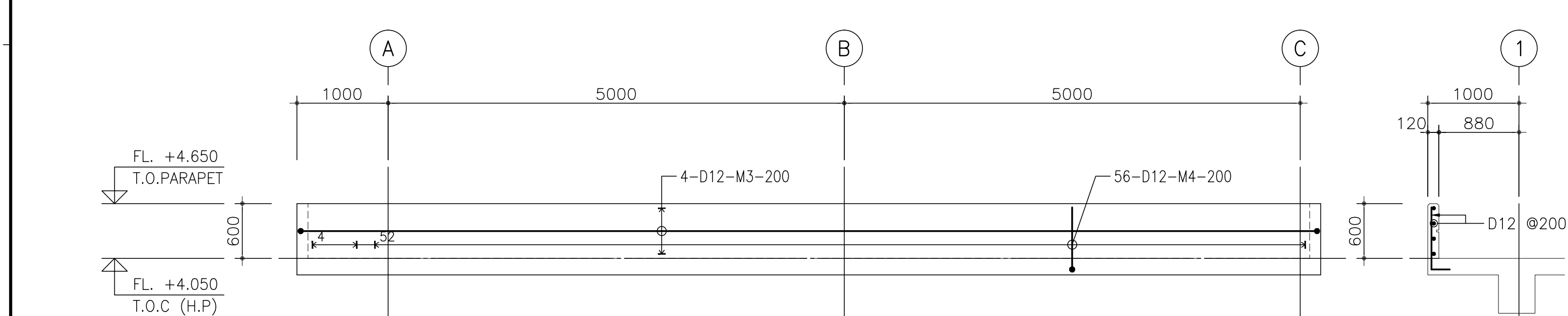
**1** LINE GIRDER RE-BAR DETAIL  
SCALE : 1/40

**2** A-ROW GIRDER RE-BAR DETAIL  
SCALE : 1/40

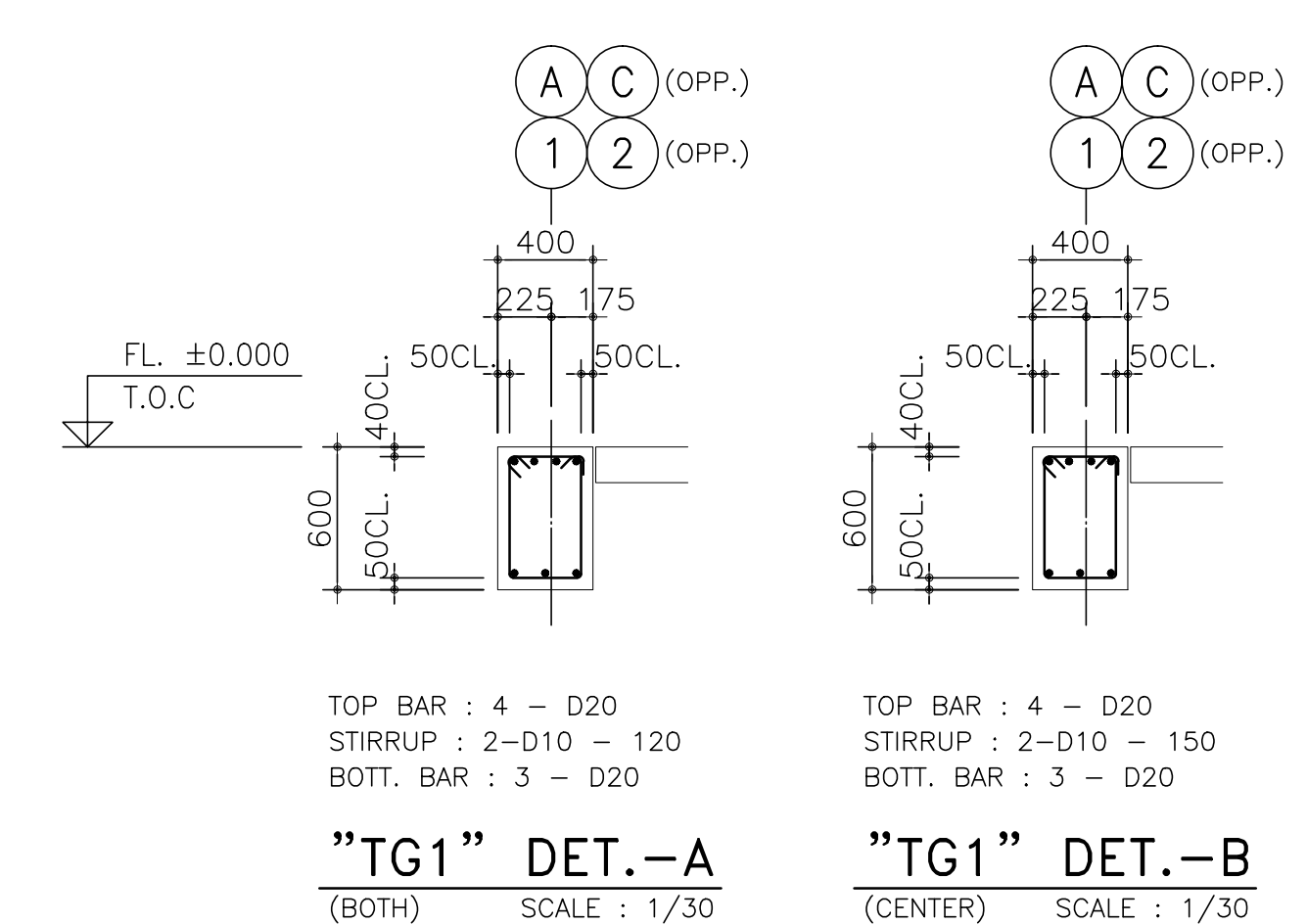


**3** 2-LINE GIRDER RE-BAR DETAIL  
SCALE : 1/40

**4** C-ROW GIRDER RE-BAR DETAIL  
SCALE : 1/40

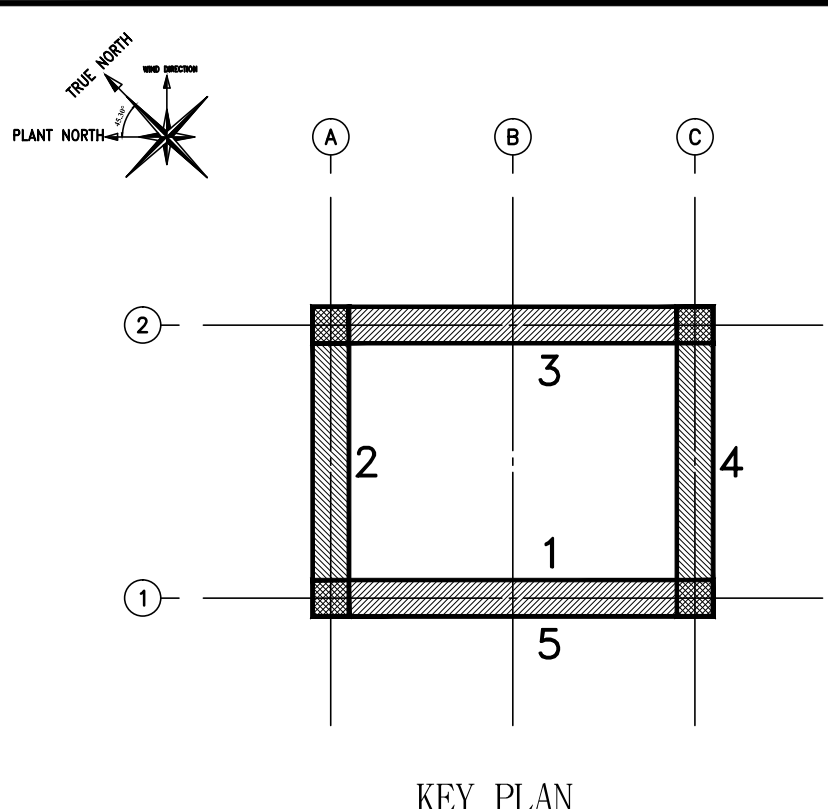


**5** PARAPET RE-BAR DETAIL  
SCALE : 1/40



**"TG1" DET.-A**  
(BOTH) SCALE : 1/30



**"TG1" DET.-B**  
(CENTER) SCALE : 1/30



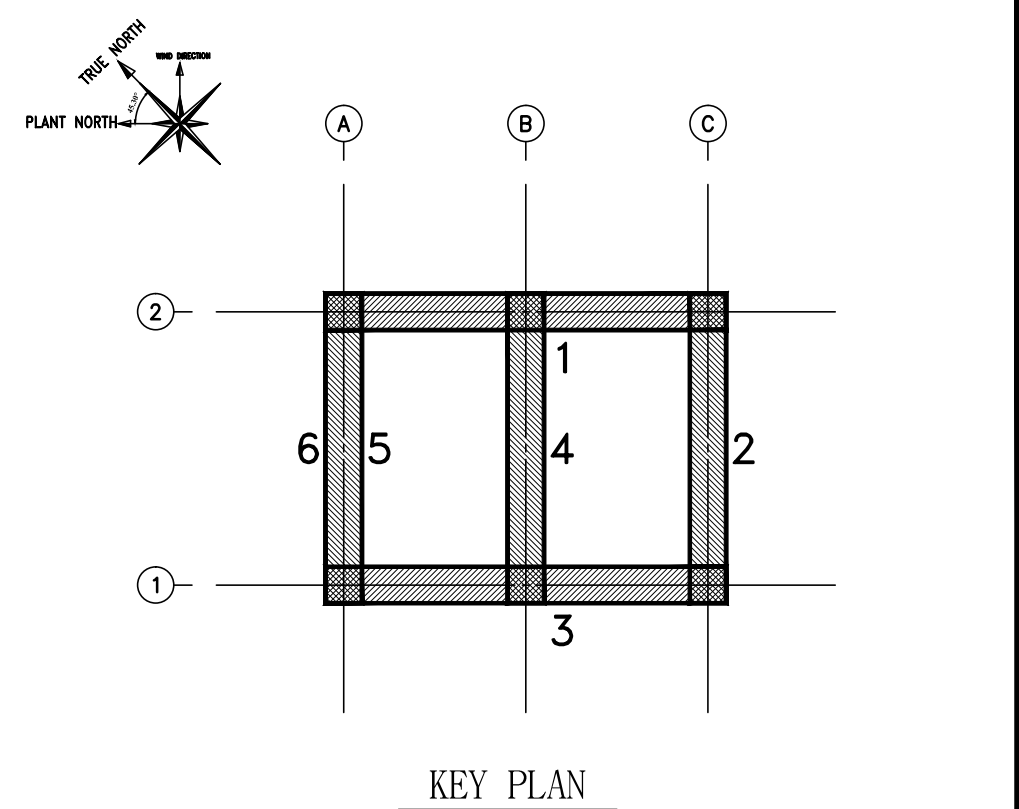
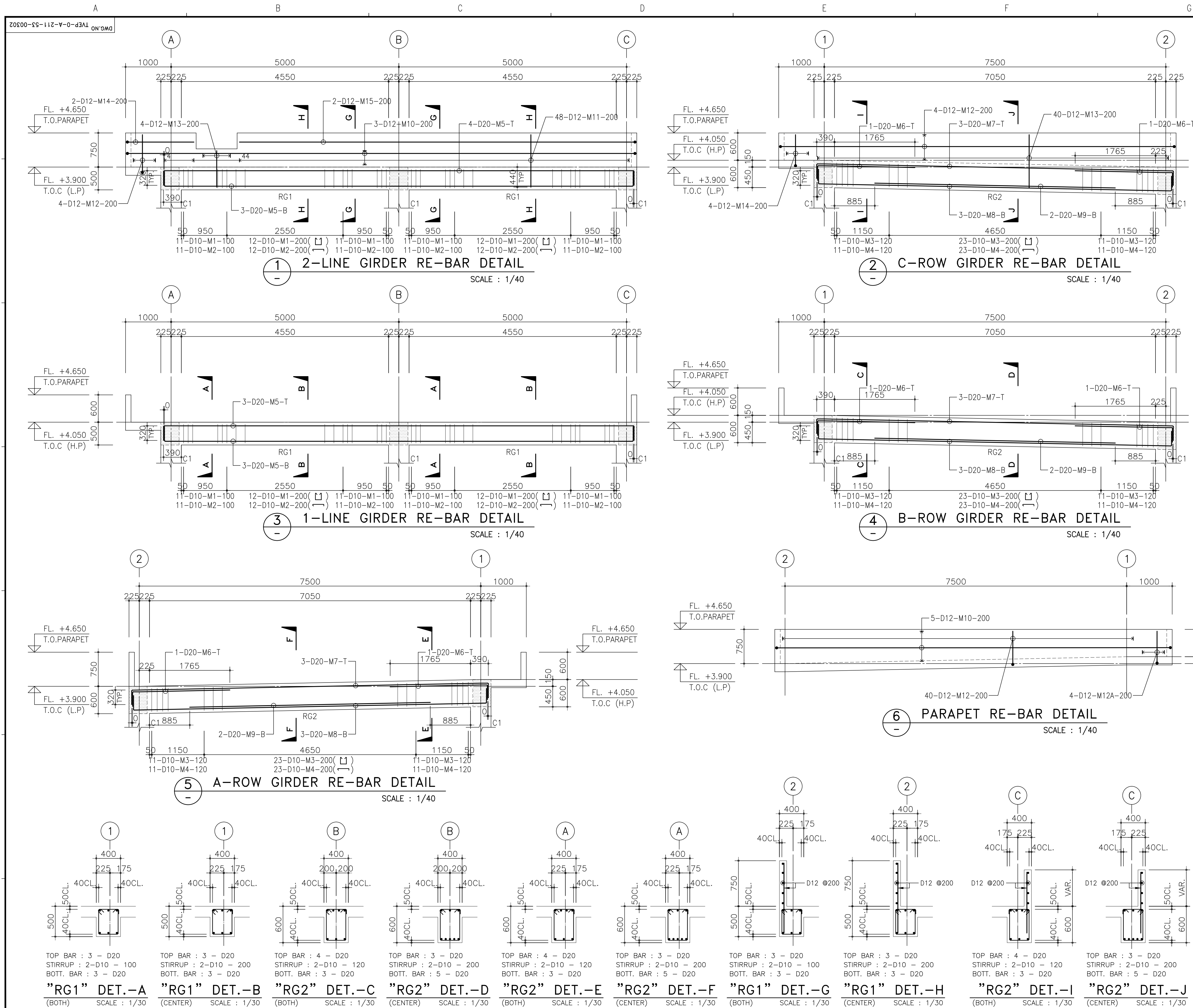
**NOTE.**

1. ALL DIMENSIONS ARE IN MM & LEVELS ARE IN M.
2. GL±0.00 = EL±0.00  
FL±0.00 = GL+0.30 = EL+0.30
3. FOR NOTES, SEE DWG. NO. TVEP-0-A-211-53-00101

AS-BUILT

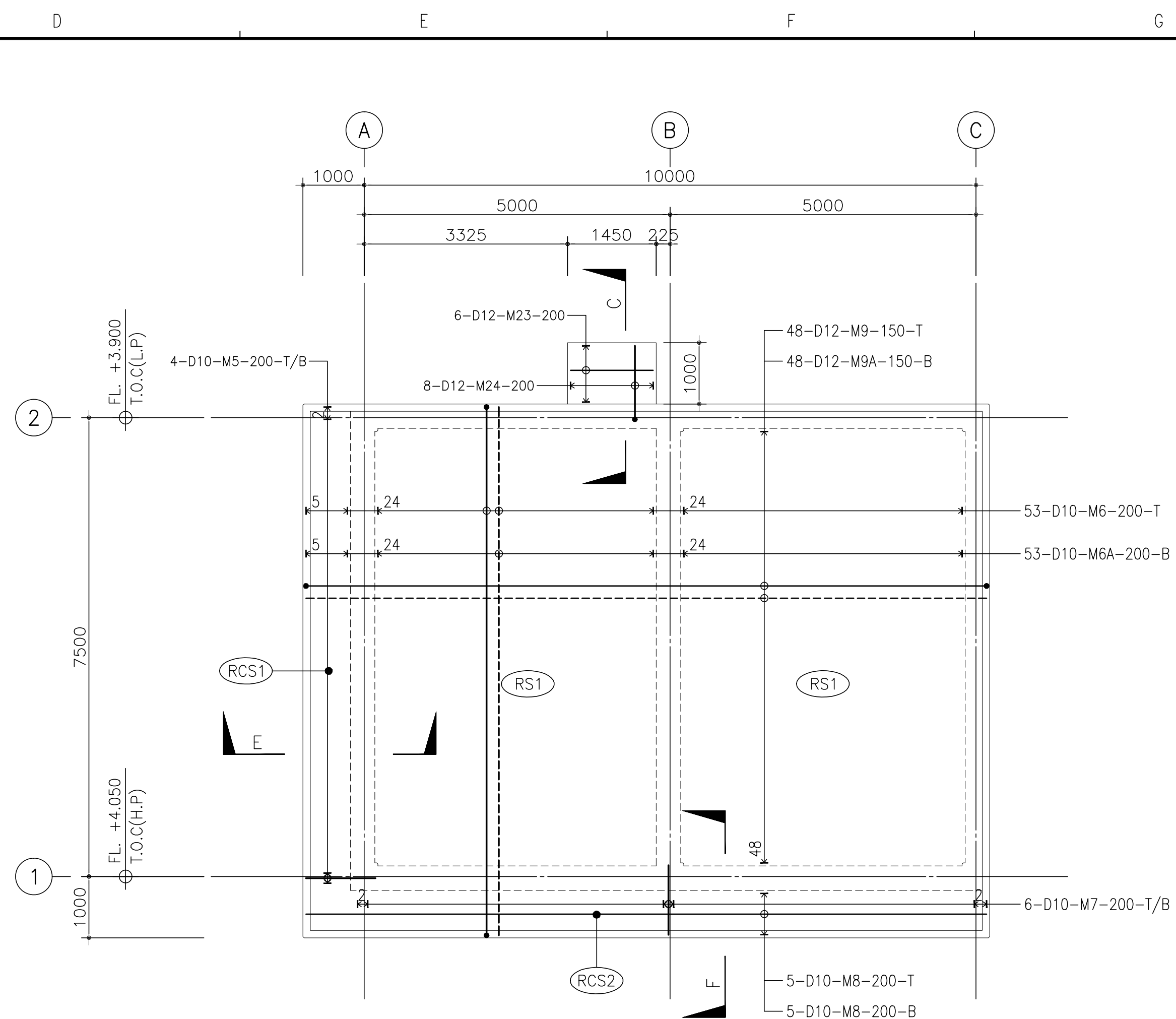
△					
△					
AB	OCT.31.'17	AS-BUILT – INITIAL SUBMISSION	J.W.KIM	J.N.BAE	G.B.PARK
△	JUN.02.'16	REVISED AS MARKED	J.W.KIM	J.N.BAE	G.B.PARK
△	MAY.13.'16	ISSUED FOR INFORMATION	J.W.KIM	J.N.BAE	G.B.PARK
REV.	DATE	DESCRIPTION	DSGN	CHKD	APPD
OWNER:					
<div>Therma Visayas, Inc.,</div>					
EPC CONTRACTOR:					
<div></div>					
PROJECT:					
Therma Visayas Energy Project					
DESIGNED BY		TITLE:			
J.W.KIM		JUN.02.'16			
CHECKED BY		DATE			
J.N.BAE		JUN.02.'16			
APPROVED BY		DATE			
G.B.PARK		JUN.02.'16			
SCALE		PROJECT NO.		DRAWING NUMBER	
1/40		-		TVEP-0-A-211-53-00301	
				REV.	
				AB	



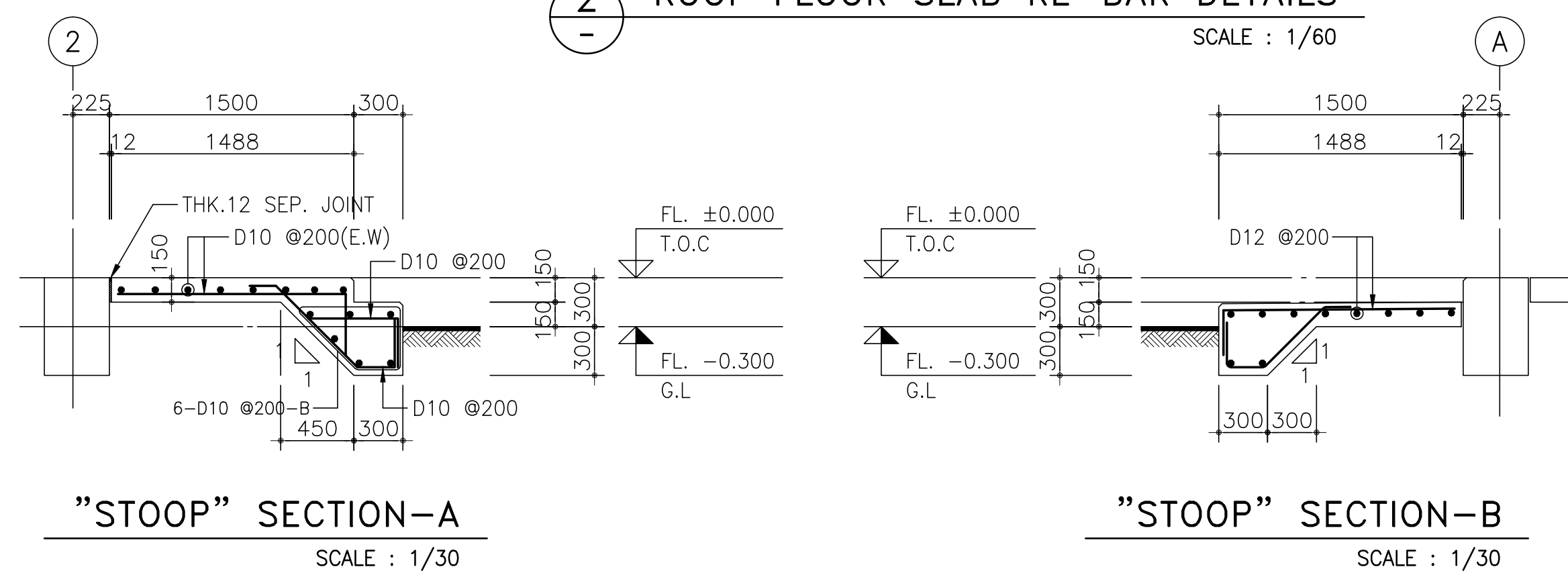


- NOTE.**
1. ALL DIMENSIONS ARE IN MM & LEVELS ARE IN M.
  2. GL±0.00 = EL±0.00  
FL±0.00 = GL+0.30 = EL+0.30
  3. FOR NOTES, SEE DWG. NO. TVEP-0-A-211-53-00101

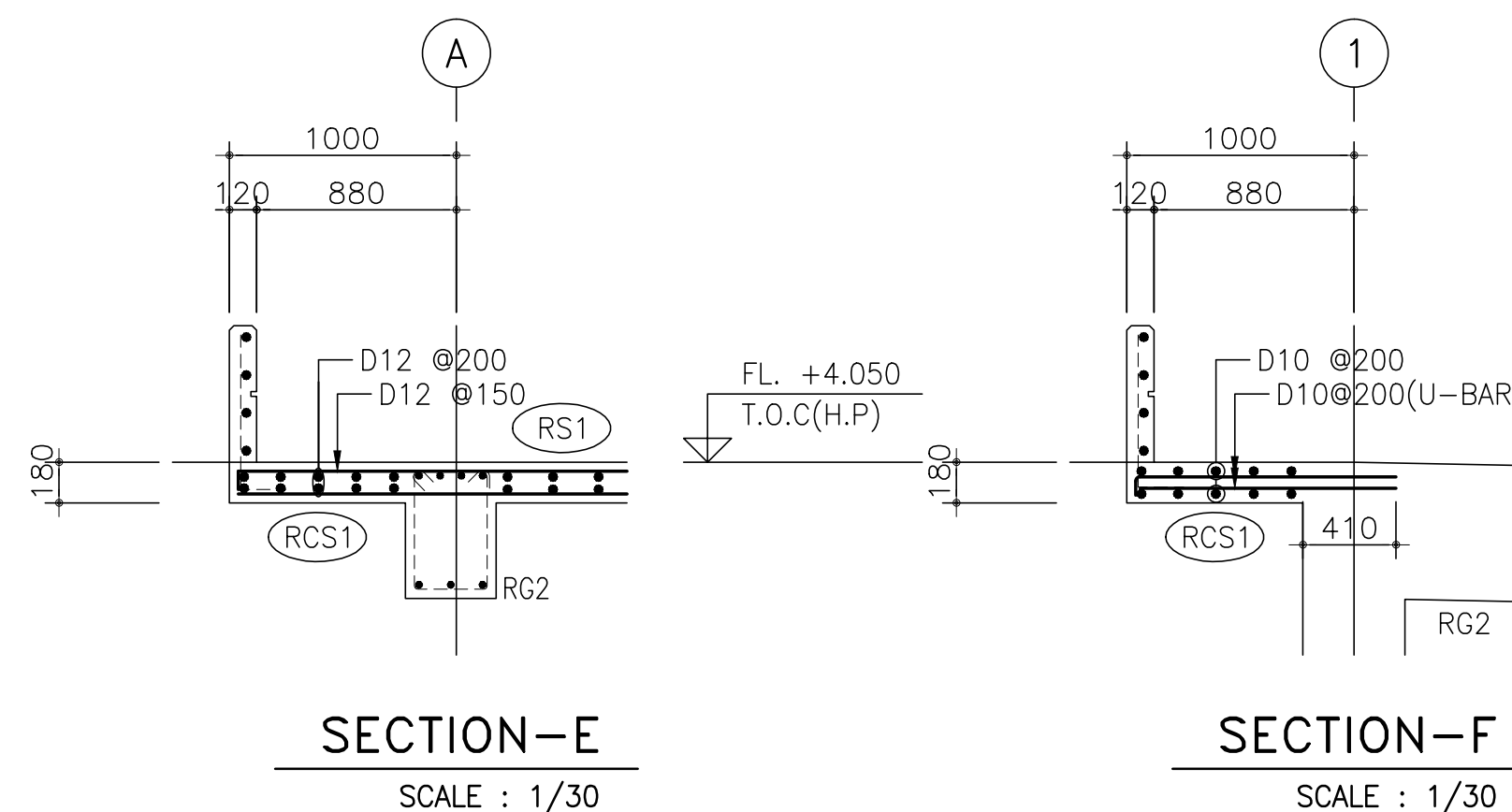
AS-BUILT					
△					
AB	OCT.31.'17	AS-BUILT - INITIAL SUBMISSION	J.W.KIM	J.N.BAE	G.B.PARK
Seq.1	JAN.09.'17	REVISED AS MARKED	J.W.KIM	J.N.BAE	G.B.PARK
△	JAN.05.'17	REVISED AS MARKED	J.W.KIM	J.N.BAE	G.B.PARK
△	MAY.13.'16	ISSUED FOR INFORMATION	J.W.KIM	J.N.BAE	G.B.PARK
REV.	DATE	DESCRIPTION	DSGN	CHKD	APPD
OWNER:					
Therma Visayas, Inc.,					
EPC CONTRACTOR:					
HYUNDAI ENGINEERING CO., LTD.					
PROJECT:					
Therma Visayas Energy Project					
DESIGNED BY	DATE	TITLE:			
J.W.KIM	JAN.05.'17	MAIN GATE SECURITY BUILDING			
CHECKED BY	DATE	BUILDING			
J.N.BAE	JAN.05.'17	ROOF FLOOR GIRDER RE-BAR DETAIL			
APPROVED BY	DATE				
G.B.PARK	JAN.05.'17				
SCALE	PROJECT NO.	DRAWING NUMBER		REV.	
1/40	-	TVEP-0-A-211-53-00302		AB	



2 ROOF FLOOR SLAB RE-BAR DETAILS  
- SCALE : 1/60





4 LADDER PAD RE-BAR DETAIL  
- SCALE : 1/30



NOTE.

1. ALL DIMENSIONS ARE IN MM & LEVELS ARE IN M.
2.  $GL \pm 0.00 = EL \pm 0.00$   
 $FL \pm 0.00 = GL + 0.30 = EL + 0.30$
3. FOR NOTES, SEE DWG. NO. TVEP-0-A-211-53-00101

AS-BUILT					
△					
△					
AB	OCT.31.'17	AS-BUILT - INITIAL SUBMISSION	J.W.KIM	J.N.BAE	G.B.PARK
1	JAN.05.'17	REVISED AS MARKED	J.W.KIM	J.N.BAE	G.B.PARK
0	MAY.13.'16	ISSUED FOR INFORMATION	J.W.KIM	J.N.BAE	G.B.PARK
REV.	DATE	DESCRIPTION	DSGN	CHKD	APPD
OWNER:					
		Therma Visayas, Inc.,			
EPC CONTRACTOR:					
		HYUNDAI ENGINEERING CO., LTD.			
PROJECT:					
Therma Visayas Energy Project					
DESIGNED BY	DATE	TITLE:			
J.W.KIM	JAN.05.'17	MAIN GATE SECURITY BUILDING  GROUND FLOOR & ROOF FLOOR SLAB RE-BAR DETAIL			
CHECKED BY	DATE				
J.N.BAE	JAN.05.'17				
APPROVED BY	DATE				
G.B.PARK	JAN.05.'17				
SCALE	PROJECT NO.	DRAWING NUMBER	REV.		
1/60	-	TVEP-0-A-211-53-00401	AB		