

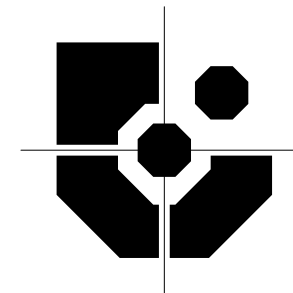
# HIKMA PHARMACEUTICAL

## JULY 2022

### Technocon Engineering Group

Tel: +249 183 586384/586387 - Fax: +249 183 586388

P.O.Box: 165 Khartoum - E-mail: TechnoconEG@yahoo.com



**TECHNOCON ENGINEERING GROUP**

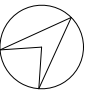
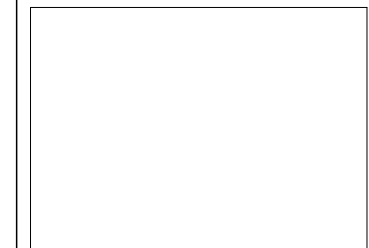
**ENGINEERING CONSULTANTS**

P.O. Box : 165 , Khartoum-Sudan, Street 60 Al Riyadh  
Block No. 17, Square 18, Tel.: +249 183 586384 /7/8,  
e-mail: info@teg-sdn.com , technoconeg@gmail.com

#### GENERAL NOTES:

- 1- ALL DIMENSIONS ARE IN MM
- 2- REINFORCEMENT STEEL  $f_y$  SHALL NOT BE LESS THAN 460 N/mm<sup>2</sup>.
- 3- ALL CONCRETE SHALL HAVE A MINIMUM CHARACTERISTIC STRENGTH OF 25 N/mm<sup>2</sup> AT 28 DAYS.
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- 9- CONSTRUCTION JOINTS IN SLABS SHALL BE LOCATED AT ONE-FIFTH OF SPAN (L/5).
- 10- ALL ANCHOR BOLTS ARE GRADE 8.8 .

#### KEYPLAN:



#### Client:

**hikma.** HIKMA PHARMACEUTICAL COMPANY

#### Project name:

RENOVATION OF FINISHED  
PRODUCT WAREHOUSE

Location: ALBAGEIR-SUDAN

Plot:

Block:

#### Sheet title:

FOUNDATION LAYOUT

#### Scale:

N.T.S.

#### Project No.:

TEG/0122-312

#### Date:

JULY 2022

#### Project status:

DETAILED DESIGN

#### Sheet number:

TEG-DD-STR- 00

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK
01	20-7-2022		I.E.E	I.E.E	A.A.K
02					
03					

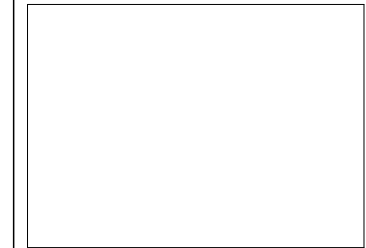


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**hikma.** HIKMA PHARMACEUTICAL  
COMPANY

**Project name:**

**RENOVATION OF FINISHED  
PRODUCT WAREHOUSE**

**Location:** ALBAGEIR-SUDAN

**Plot:**

**Block:**

**Sheet title:**

**FOUNDATION LAYOUT**

**Scale:**

**N.T.S.**

**Project No.:**

**TEG/0122-312**

**Date:**

**JULY 2022**

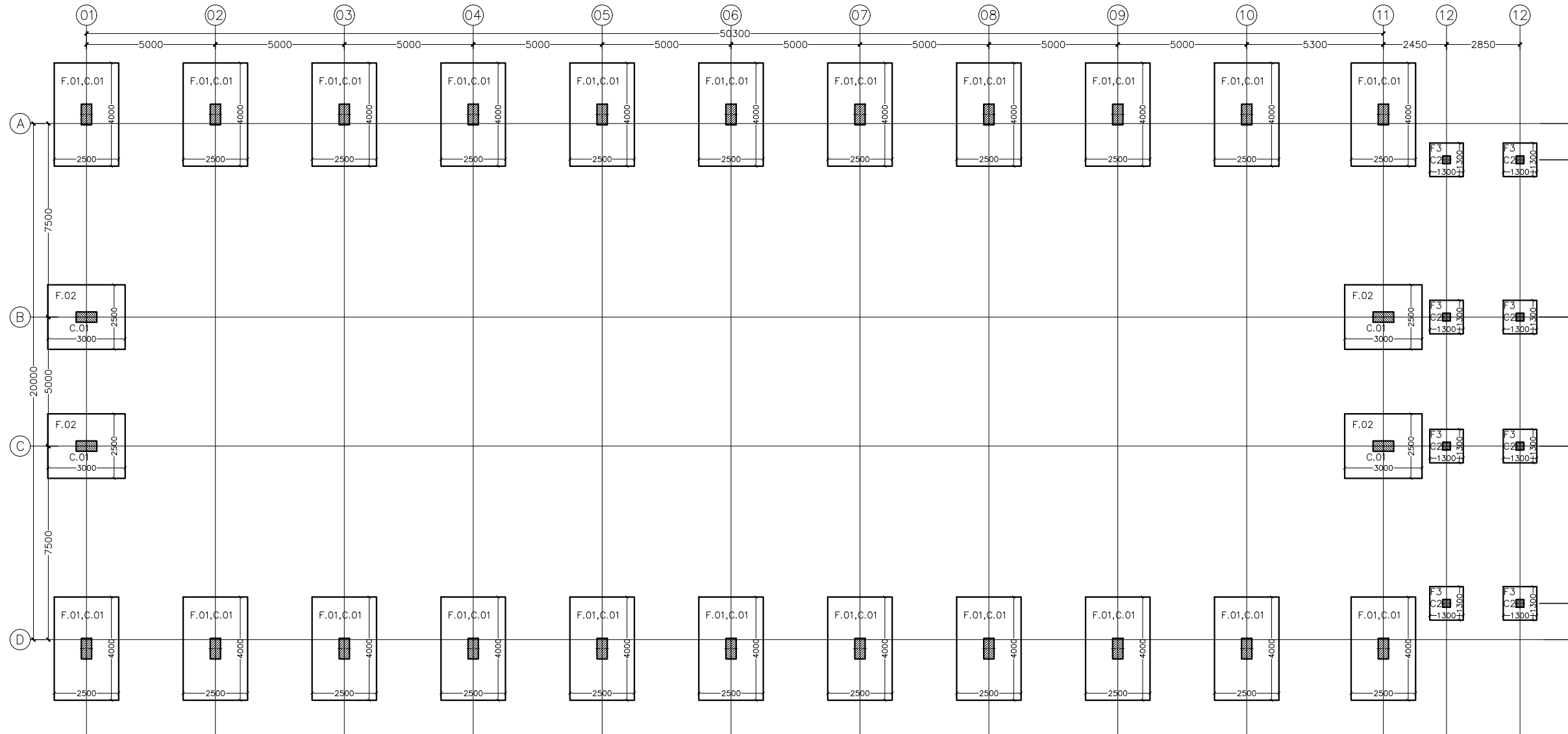
**Project status:**

**DETAILED DESIGN**

**Sheet number:**

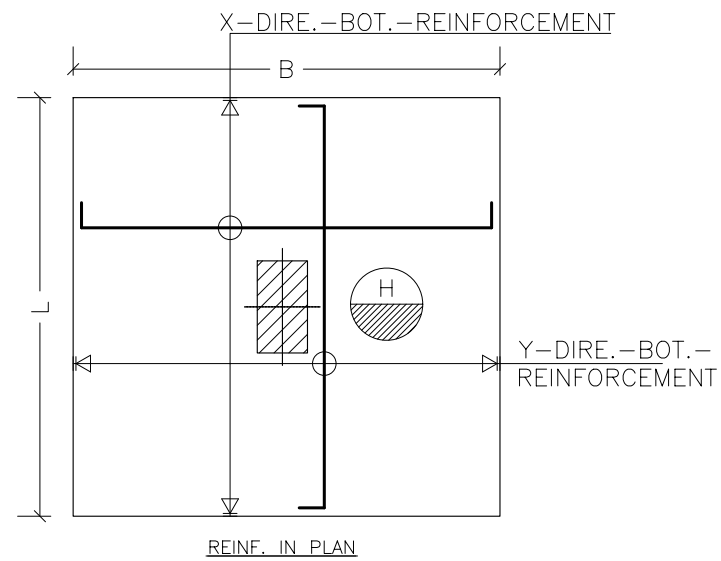
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REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK
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02					
03					

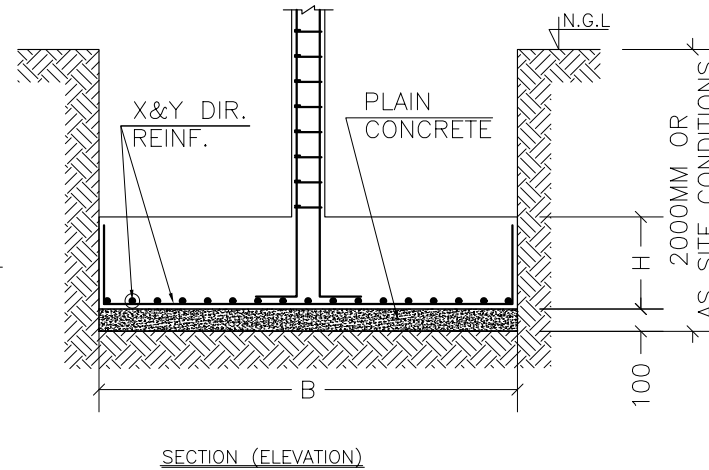


**GENERAL NOTES:**

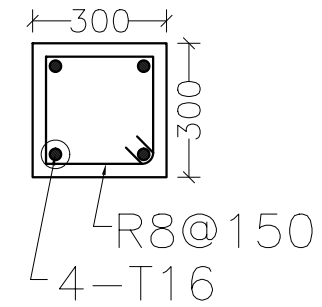
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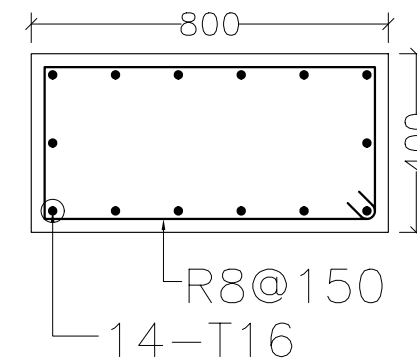
TYPICAL FOOTING



SECTION (ELEVATION)



COLUMNS C.02 DETAILS



COLUMNS C.01 DETAILS

**KEYPLAN:**



**Client:**  
**hikma.** HIKMA PHARMACEUTICAL COMPANY

**Project name:**  
**RENOVATION OF FINISHED PRODUCT WAREHOUSE**

**Location:** ALBAGEIR-SUDAN

**Plot:** **Block:**

**Sheet title:**  
**FOUNDATIONS DETAIL**

**Scale:** N.T.S. **Project No.:** TEG/0122-312

**Date:** JULY 2022 **Project status:** DETAILED DESIGN

**Sheet number:** TEG-DD-STR-F02

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02					
03					

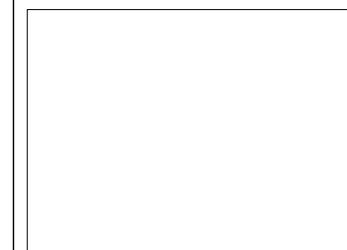
FOOTING NAME PROPERTIES	DIMENSIONS			BOT.REINFORCEMENT	
	L	B	H	PARALLEL TO COLUMN WIDTH	PARALLEL TO COLUMN LENGTH
F.01	4000	2500	700	T 16 @ 200	T 16 @ 200
F.02	3000	2500	600	T 16 @ 200	T 16 @ 200
F.03	1300	1300	400	T 16 @ 150	T 16 @ 150

FOUNDATION SIZES & REINFORCEMENT

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**KEYPLAN:**



Client:

**hikma.** HIKMA PHARMACEUTICAL COMPANY

Project name:

**RENOVATION OF FINISHED  
PRODUCT WAREHOUSE**

Location:

ALBAGEIR-SUDAN

Plot:

Block:

Sheet title:

**GRADE BEAMS LAYOUT**

Scale:

**N.T.S.**

Project No.:

**TEG/0122-312**

Date:

**JULY 2022**

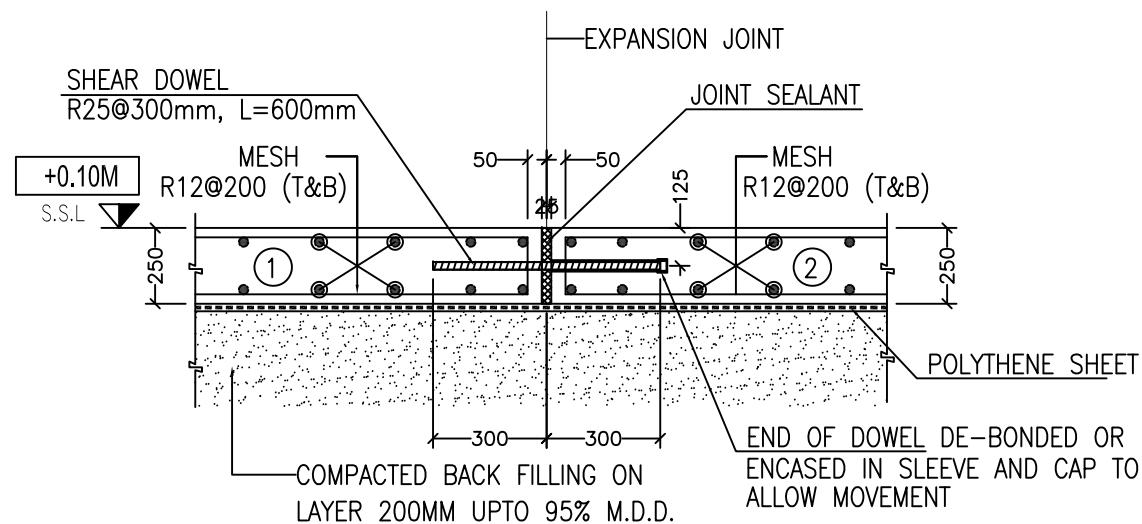
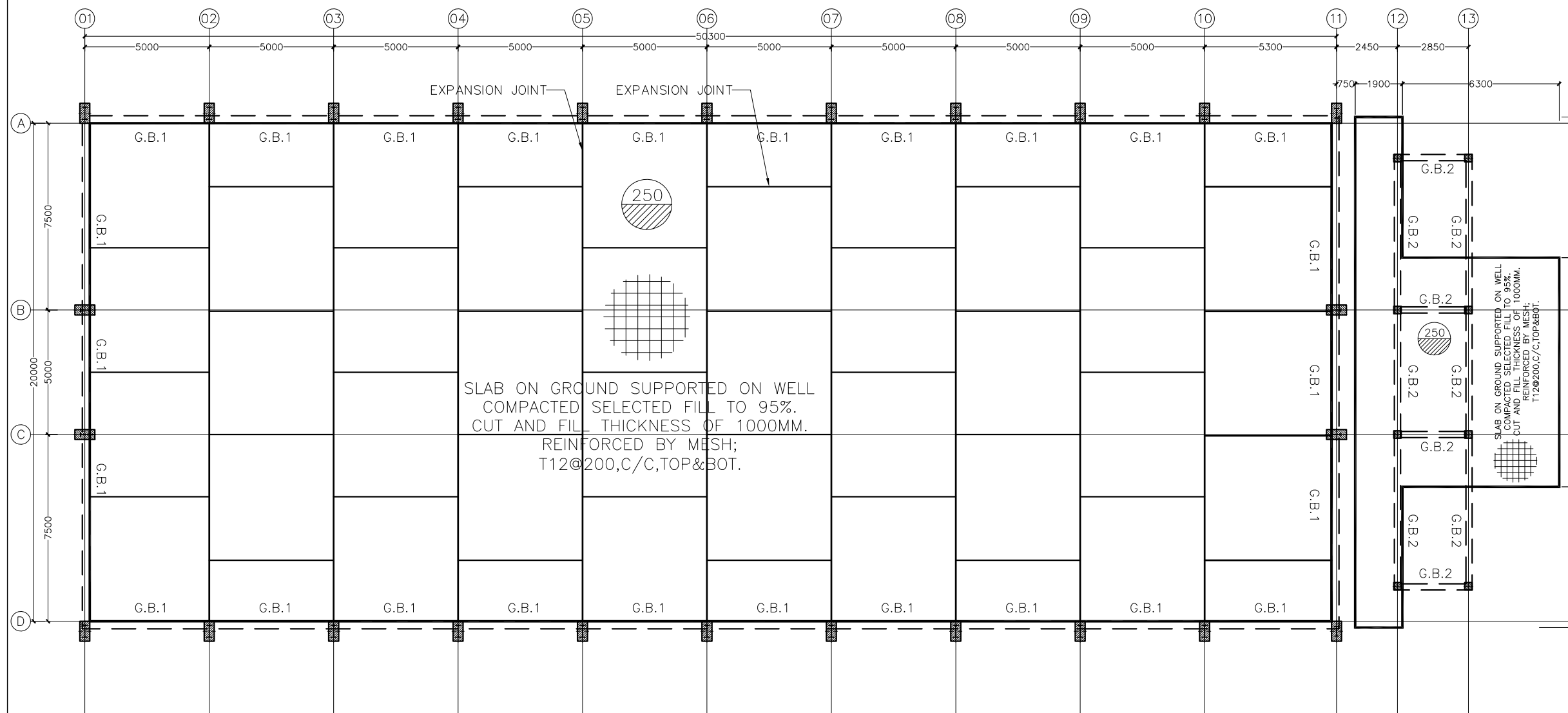
Project status:

**DETAILED DESIGN**

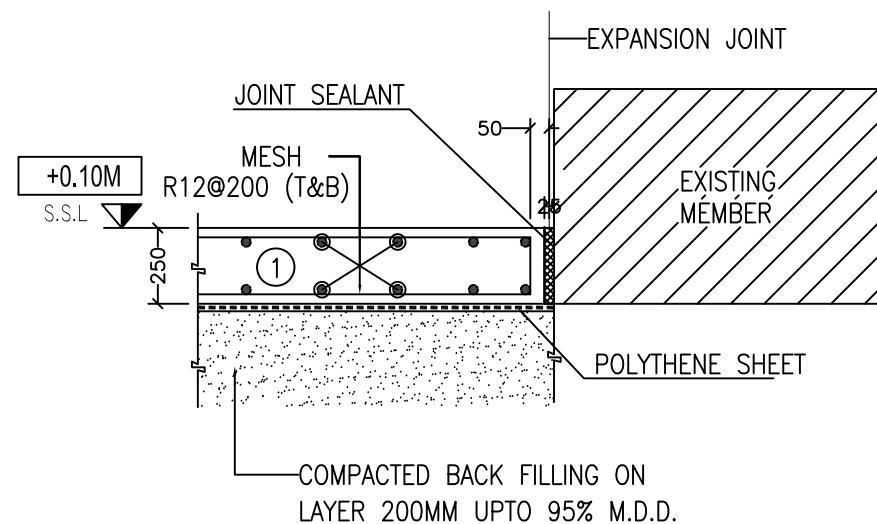
Sheet number:

**TEG-DD-STR-F-03**

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK
01	20-7-2022		I.E.E	I.E.E	A.A.K
02					
03					



**TYPICAL EXPANSION JOINT (CENTER) DETAIL**



**TYPICAL EXPANSION JOINT (EDGE) DETAIL**

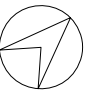
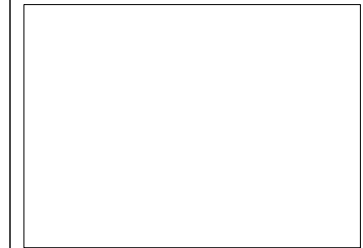


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**KEYPLAN:**



Client:

**hikma.**

**HIKMA PHARMACEUTICAL  
COMPANY**

Project name:

**RENOVATION OF FINISHED  
PRODUCT WAREHOUSE**

Location:

ALBAGEIR-SUDAN

Plot:

Block:

Sheet title:

**BRACING & SIDE RAILS**

Scale:

**N.T.S.**

Project No.:

**TEG/0122-312**

Date:

**JULY 2022**

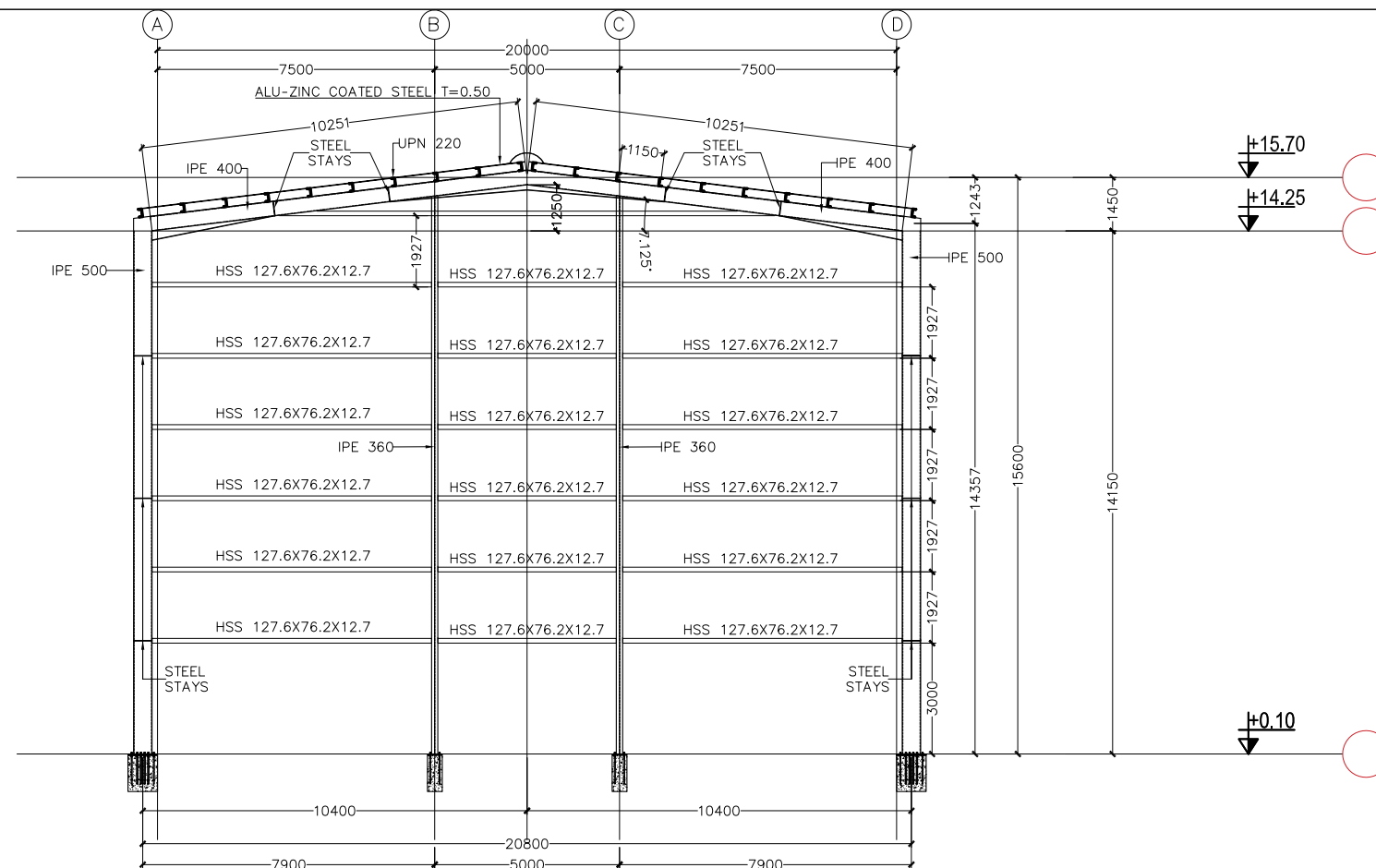
Project status:

**DETAILED DESIGN**

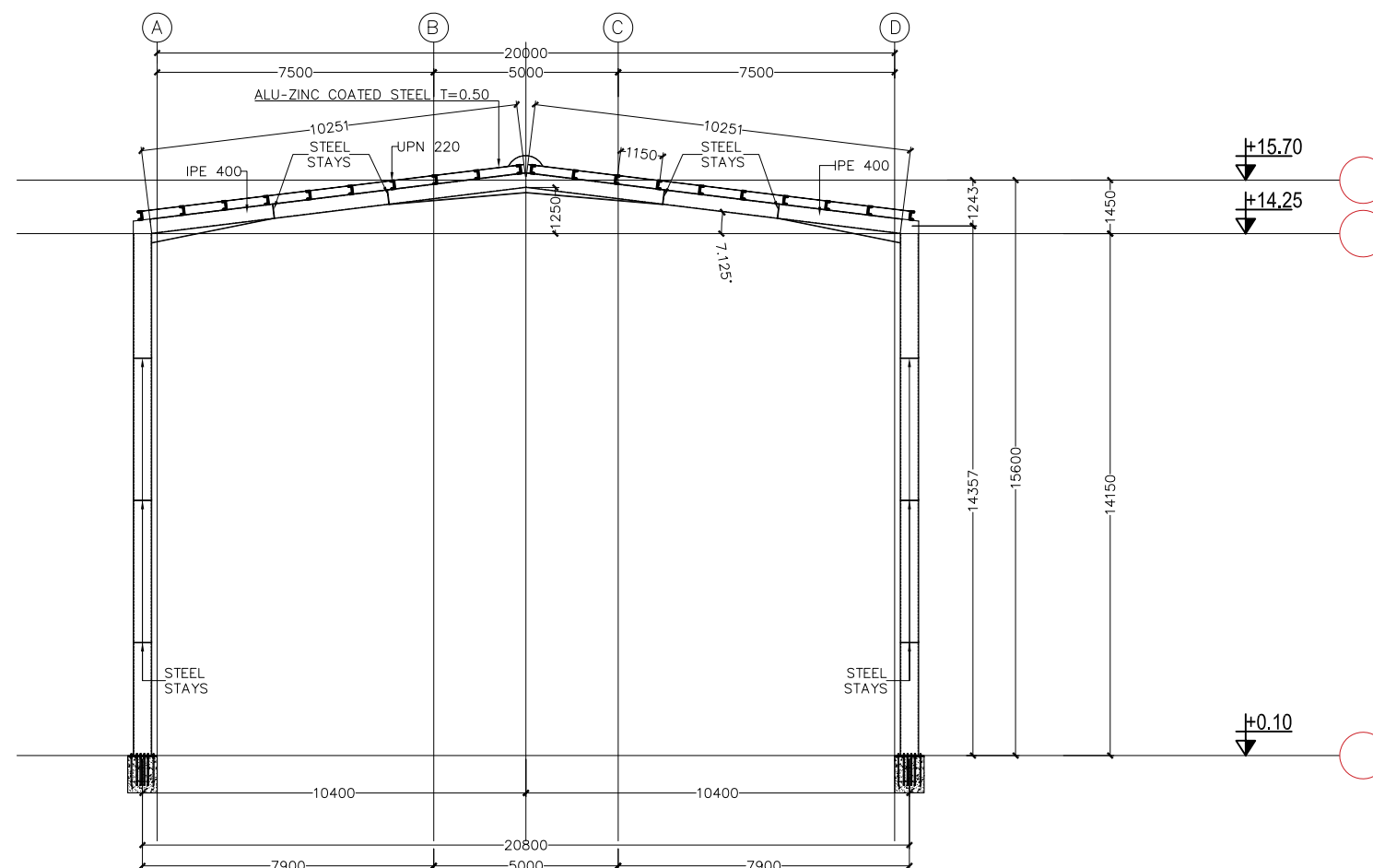
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**TEG-DD-STR- SECTION**

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK
01	20-7-2022		I.E.E	I.E.E	A.A.K
02					
03					



**EXTERIOR FRAMES & SIDE RAILS @  
G.L. (1) & (11)**

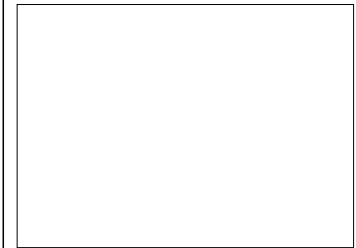


**INTERIOR FRAMES @ G.L. (2) TO (10)**

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**KEYPLAN:**



**Client:**

**hikma.** HIKMA PHARMACEUTICAL COMPANY

**Project name:**

**RENOVATION OF FINISHED  
PRODUCT WAREHOUSE**

**Location:**

ALBAGEIR-SUDAN

**Plot:**

**Block:**

**Sheet title:**

**BEAM SECTIONS**

**Scale:**

**N.T.S.**

**Project No.:**

**TEG/0122-312**

**Date:**

**JULY 2022**

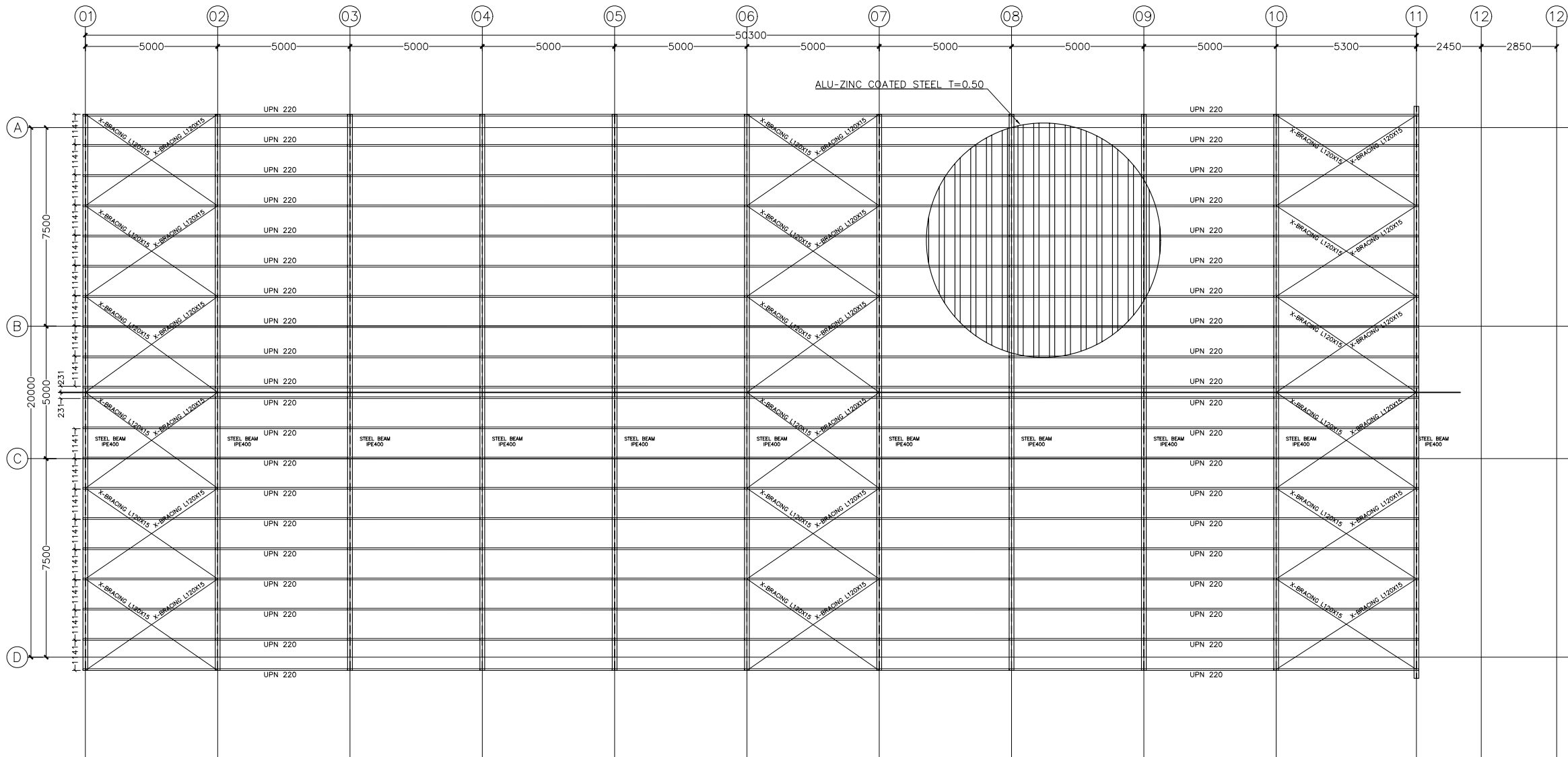
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**DETAILED DESIGN**

**Sheet number:**

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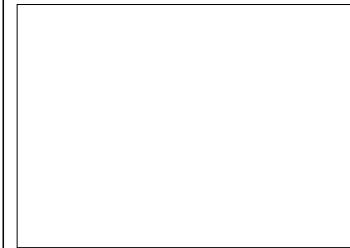
REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK
01	20-7-2022		I.E.E	I.E.E	A.A.K
02					
03					



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Client:

**hikma.** HIKMA PHARMACEUTICAL COMPANY

Project name:

RENOVATION OF FINISHED  
PRODUCT WAREHOUSE

Location:

ALBAGEIR-SUDAN

Plot:

Block:

Sheet title:

SIDE FRAMES & BRACING

Scale:

N.T.S.

Project No.:

TEG/0122-312

Date:

JULY 2022

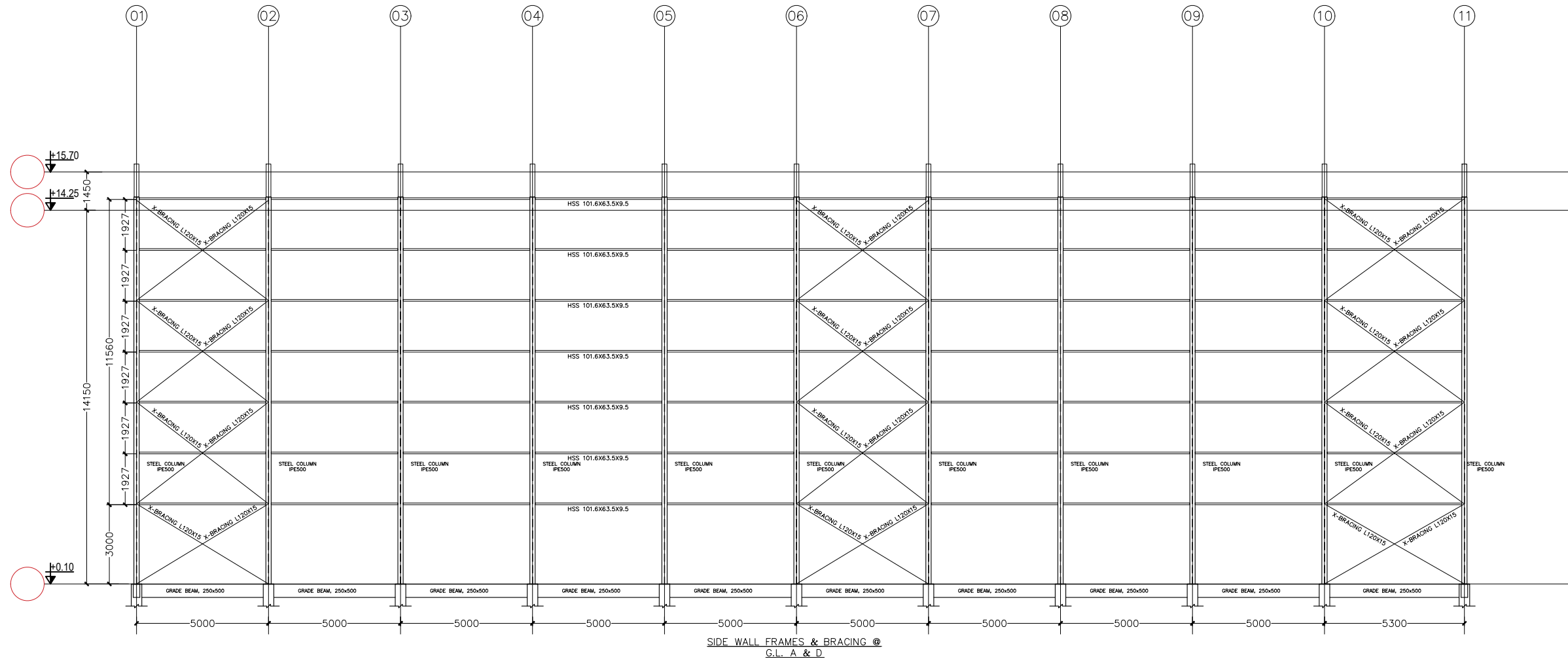
Project status:

DETAILED DESIGN

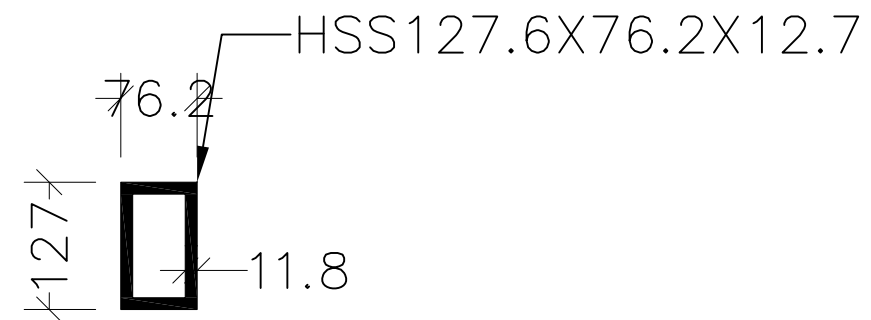
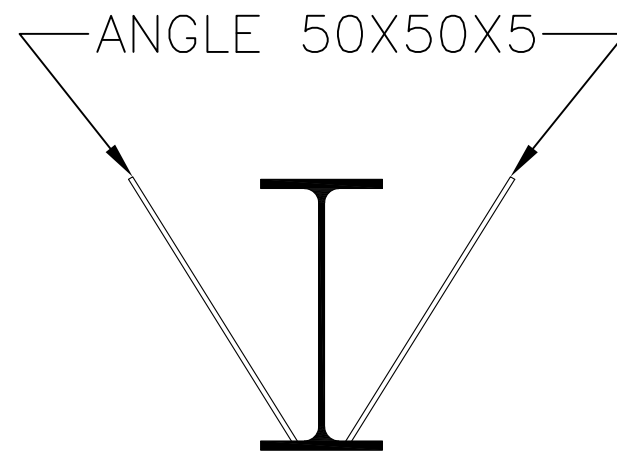
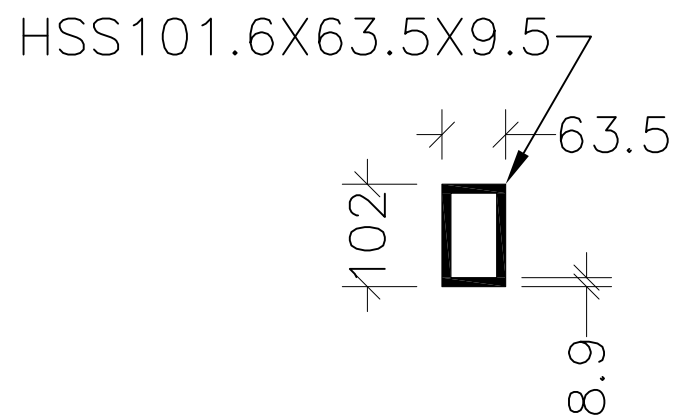
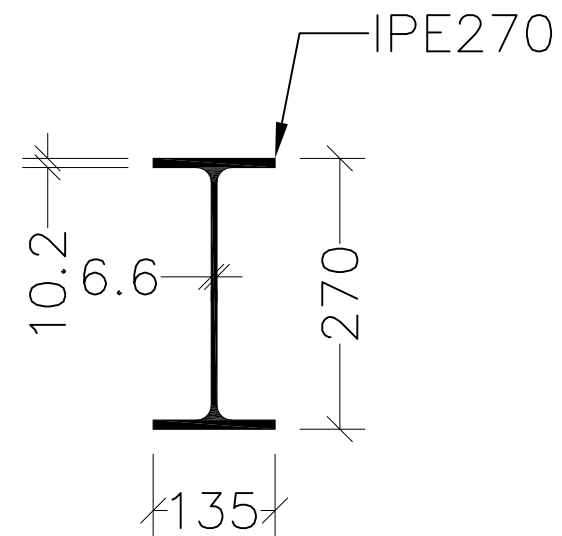
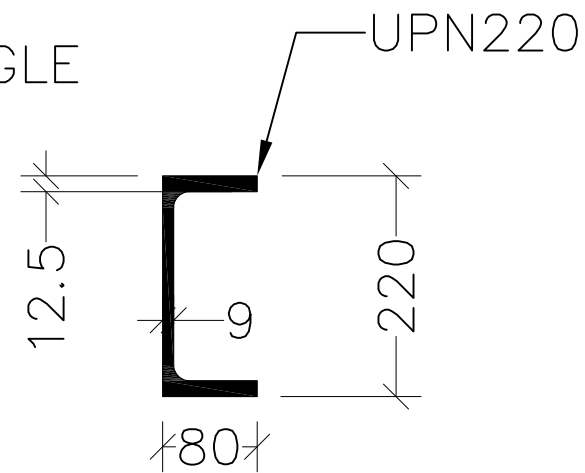
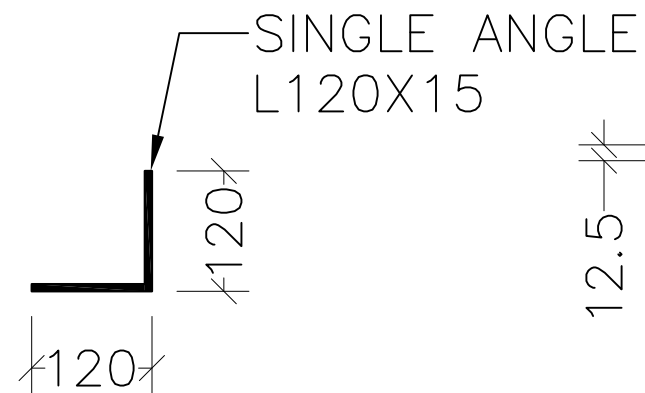
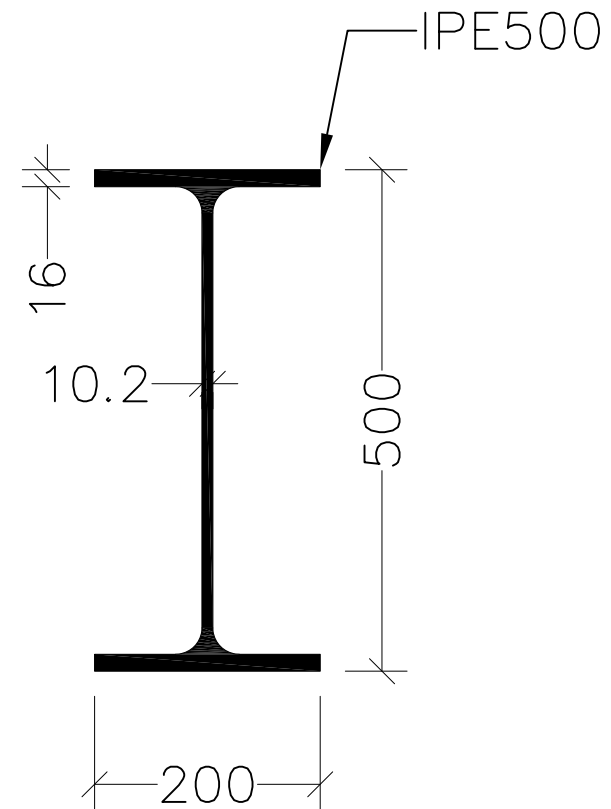
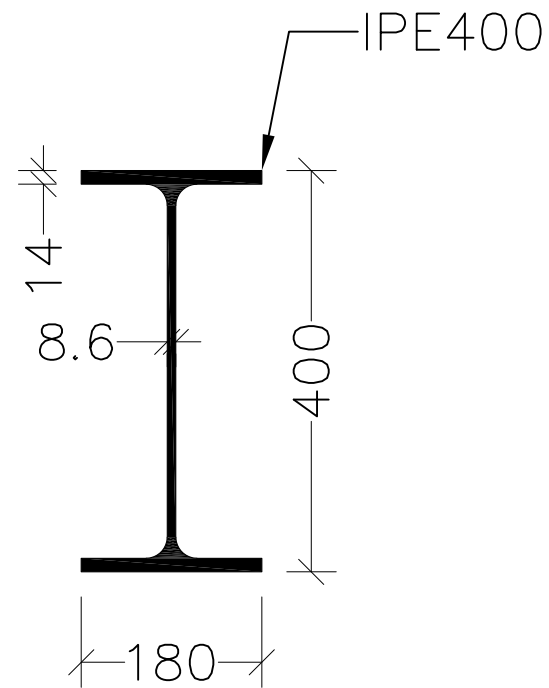
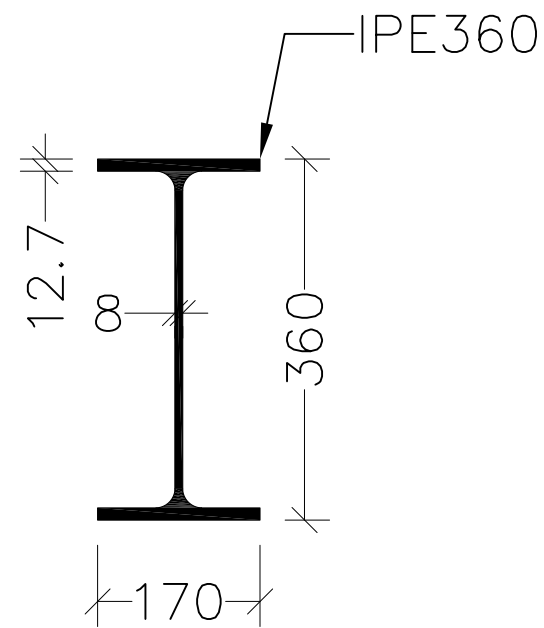
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TEG-DD-STR-BRACING

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK
01	20-7-2022		I.E.E	I.E.E	A.A.K
02					
03					





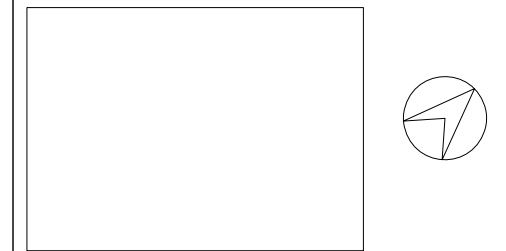


GENERAL STAY  
DETAIL

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**KEYPLAN:**



**Client:**  
**hikma.** HIKMA PHARMACEUTICAL COMPANY

**Project name:**  
**RENOVATION OF FINISHED PRODUCT WAREHOUSE**

**Location:** ALBAGEIR-SUDAN

**Plot:** **Block:**

**Sheet title:**  
**WAREHOUSE STEEL MEMBERS**

**Scale:** N.T.S. **Project No.:** TEG/0122-312

**Date:** JULY 2022 **Project status:** DETAILED DESIGN

**Sheet number:** TEG-DD-STR- MEM

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK
01	20-7-2022		I.E.E	I.E.E	A.A.K
02					
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COMPANY**

Project name:

RENOVATION OF FINISHED  
PRODUCT WAREHOUSE

Location:	ALBAGEIR-SUDAN
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Plot:	Block:
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Sheet title:

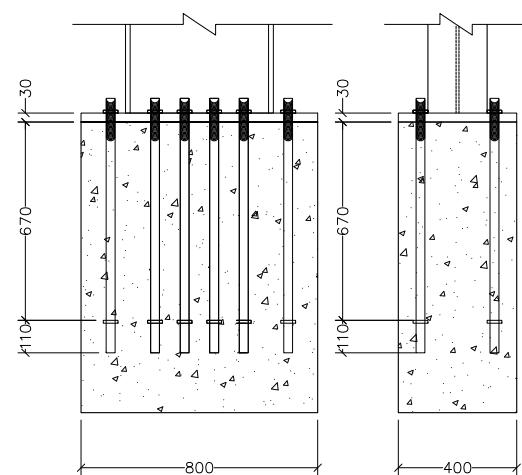
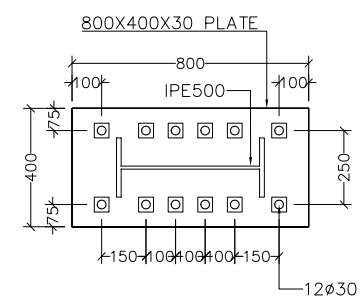
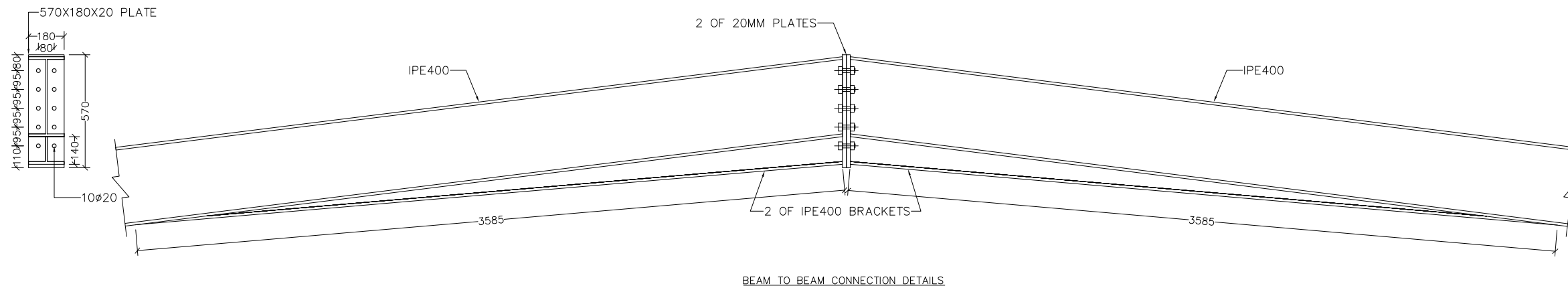
PORTAL FRAME MEMBER CONNECTIONS

Scale: N.T.S.	Project No.: TEG/0122-312
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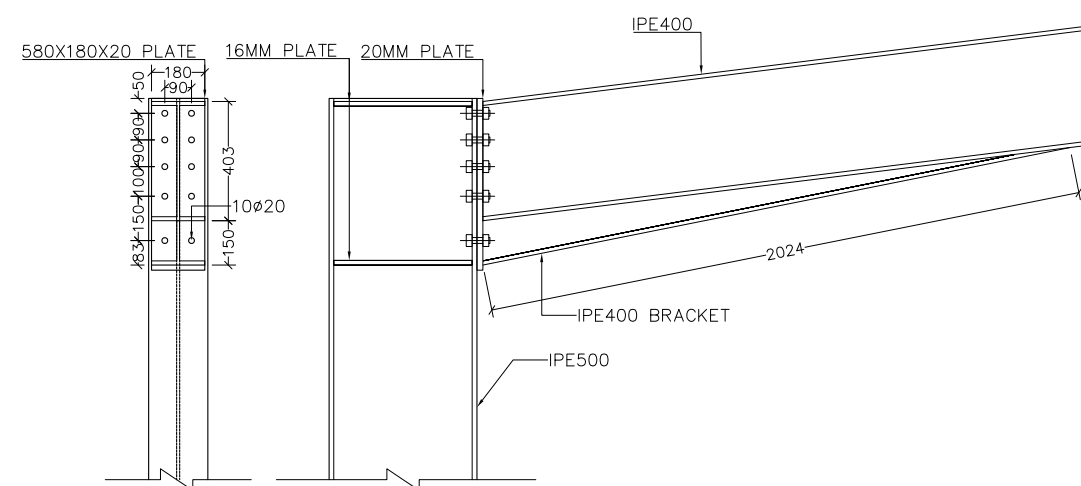
Date:	Project status:
JULY 2022	DETAILED DESIGN

Sheet number: TEG-DD-STR-CONNECTIONS

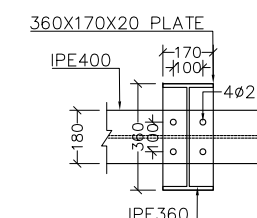
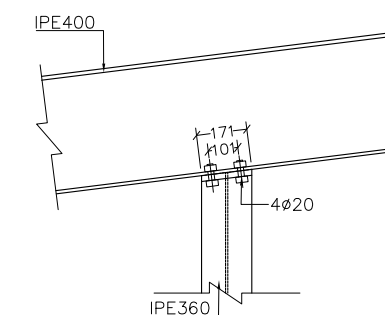
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03					



### COLUMN BASE-PLATE DETAILS



### EXTERNAL COLUMN TO BEAM CONNECTION DETAILS

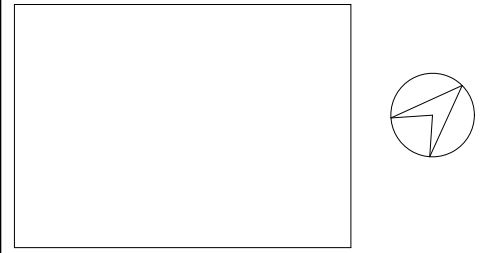


### INTERNAL COLUMN TO BEAM CONNECTION DETAILS

**GENERAL NOTES:**

- 1- ALL DIMENSIONS ARE IN MM
- 2- REINFORCEMENT STEEL  $f_y$  SHALL NOT BE LESS THAN 460 N/mm<sup>2</sup>.
- 3- ALL CONCRETE SHALL HAVE A MINIMUM CHARACTERISTIC STRENGTH OF 25 N/mm<sup>2</sup> AT 28 DAYS.
- 4- MAXIMUM SIZE OF AGGREGATES SHALL BE 20mm
- 5- CONCRETE COVER SHALL NOT BE LESS THAN:
  - 25mm ( SLABS )
  - 30mm ( BEAMS & COLUMNS )
- 6- MINIMUM REINFORCEMENT LAP LENGTH SHALL BE 50 DIAMETER OF BARS.
- 7- STEEL  $P_y$  SHALL NOT BE LESS THAN 275 N/mm<sup>2</sup>.
- 8- THE ALLOWABLE BEARING PRESSURE FOR SOIL ASSUMED TO BE 180 kN/m<sup>2</sup>
- 9- CONSTRUCTION JOINTS IN SLABS SHALL BE LOCATED AT ONE-FIFTH OF SPAN (L/5).
- 10- ALL ANCHOR BOLTS ARE GRADE 8.8 .

**KEYPLAN:**



Client:

**hikma.**

**HIKMA PHARMACEUTICAL  
COMPANY**

Project name:

**RENOVATION OF FINISHED  
PRODUCT WAREHOUSE**

Location:

ALBAGEIR-SUDAN

Plot:

Block:

Sheet title:

**PLATFORM COVER SLAB**

Scale:

**N.T.S.**

Project No.:

**TEG/0122-312**

Date:

**JULY 2022**

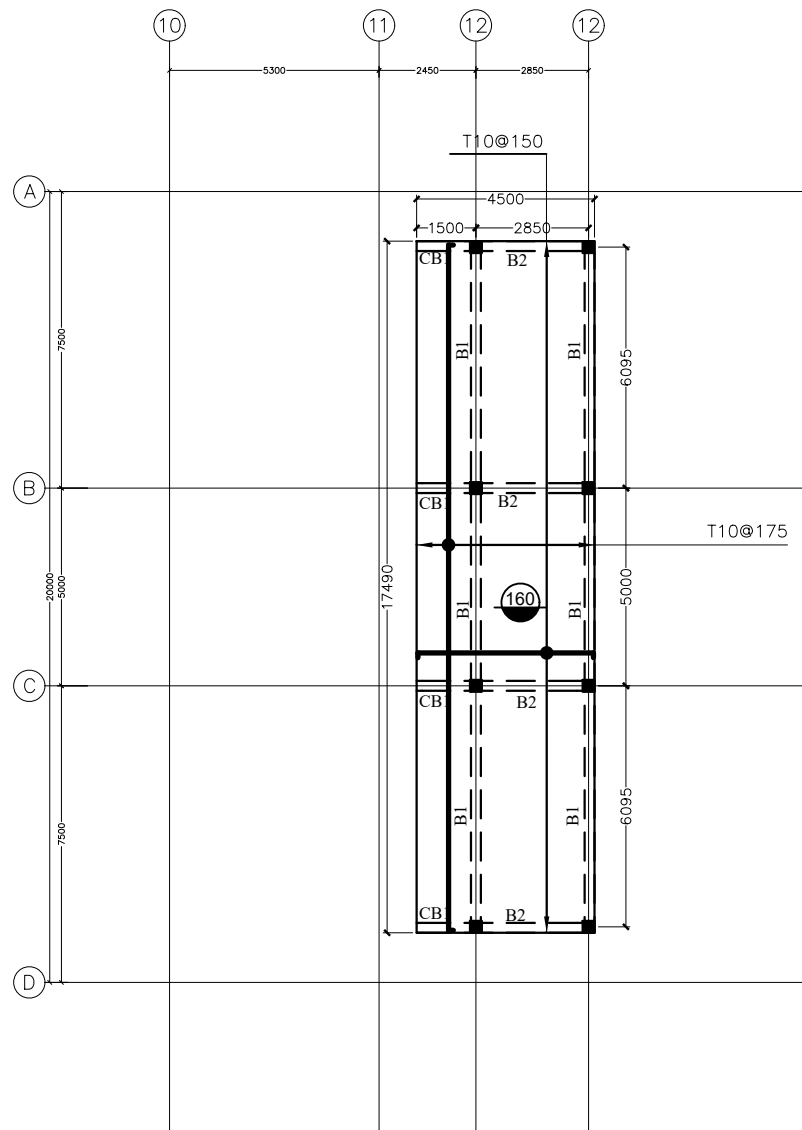
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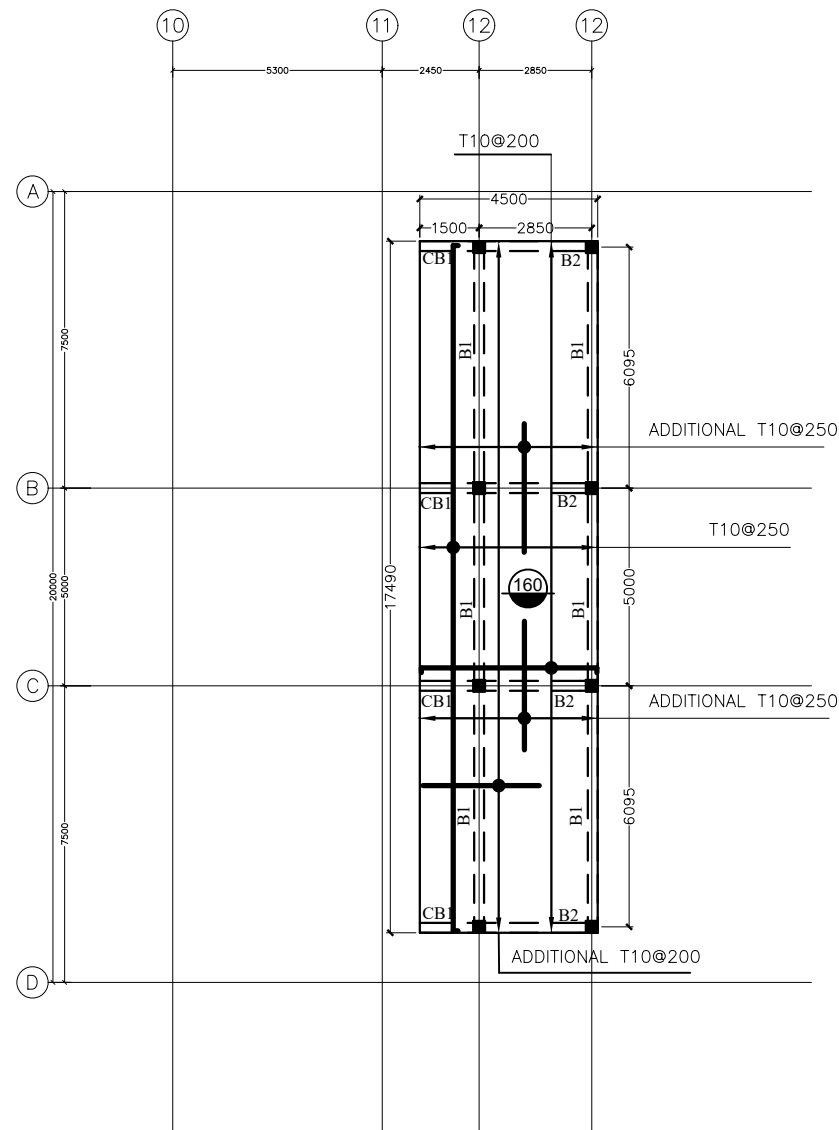
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02					
03					



**BOTT. REINF.**



**TOP REINF.**

**GENERAL NOTES:**

- 1- ALL DIMENSIONS ARE IN MM
- 2- REINFORCEMENT STEEL  $f_y$  SHALL NOT BE LESS THAN 460 N/mm<sup>2</sup>.
- 3- ALL CONCRETE SHALL HAVE A MINIMUM CHARACTERISTIC STRENGTH OF 25 N/mm<sup>2</sup> AT 28 DAYS.
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- 9- CONSTRUCTION JOINTS IN SLABS SHALL BE LOCATED AT ONE-FIFTH OF SPAN (L/5).
- 10- ALL ANCHOR BOLTS ARE GRADE 8.8 .

**KEYPLAN:**



**Client:**

**hikma.** HIKMA PHARMACEUTICAL COMPANY

**Project name:**

**RENOVATION OF FINISHED  
PRODUCT WAREHOUSE**

**Location:** ALBAGEIR-SUDAN

**Plot:**

**Block:**

**Sheet title:**

**BEAMS DETAIL**

**Scale:**

**N.T.S.**

**Project No.:**

**TEG/0122-312**

**Date:**

**JULY 2022**

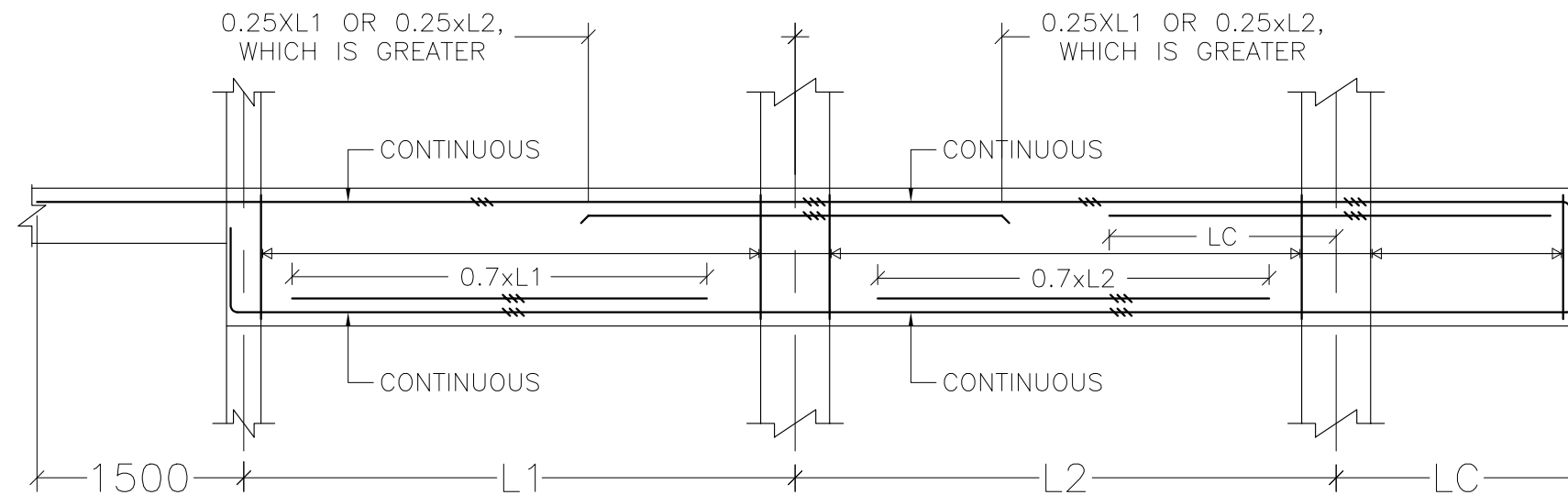
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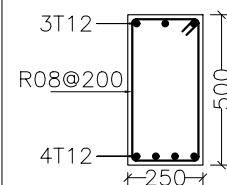
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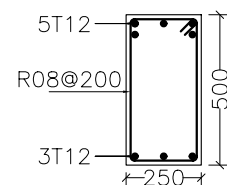
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**BEAM: G.B.01**

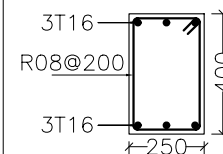


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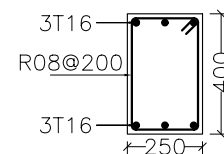


**SECTION NEAR SUPPORT**

**BEAM: G.B.02**

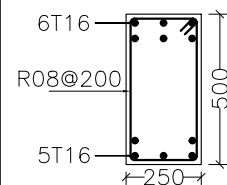


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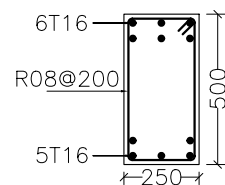


**SECTION NEAR SUPPORT**

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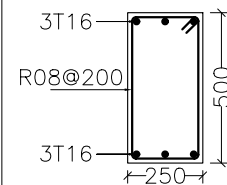


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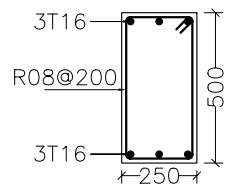


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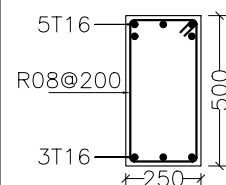


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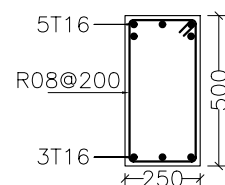


**SECTION NEAR SUPPORT**

**BEAM: C.B.01**



**SECTION @ MID SPAN**



**SECTION NEAR SUPPORT**

**TYPICAL BEAM DETAIL**