



CONSTRUCTION OF WOMEN TRADE CENTER

(STRUCTURAL, DRAWINGS)

KOHSAN DISTRICT, ISLAM QALA TOWNSHIP
Project Code : AFG 106-19/AFG-HELP-KOS-001
DATE: DECEMBER ,23, 2020



DESIGN AGENCY: PEDESTAL CONSTRUCTION COMPANY
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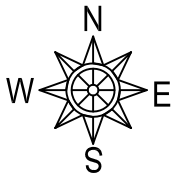
LOGOS



KEY-PLAN

NOTES :

1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.



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DATE	DESCRIPTION	DRN	BY	CHK	BY	APP	BY

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PATRIP FOUNDATION
PROJECT NAME/CODE NO
PREPARE DETAILED DESIGN DOCUMENTATION, WOMEN TRADE CENTER,KOHSAN DISTRICT, ISLAM QALA TOWN AFG 106-19/AFG-HELP-KOS-001-PROJECT

DRAWING TITLE
SITE PLAN

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	I-100	01

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DESIGN AGENCY :

PEDESTAL CONSTRUCTION COMPANY

GENERAL NOTES

1 GENERAL:

- a. ALL DIMENSIONS ARE IN MILLIMETERS , UNLESS NOTED OTHERWISE.
- b. DIMENSIONS SHALL NOT BE SCALED OFF FROM THE DRAWING.
- c. ANY DISCREPANCIES NOTICED IN THE DRAWING SHALL BE REPORTED TO CONSULTANT'S / OWNER'S REPRESENTATIVES PRIOR TO EXECUTION.
- d. THE NOTES IN THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS PERTAINING TO THE STRUCTURE.
- e. THE CONTRACTOR SHALL VERIFY ALL CHAINAGE, REDUCED LEVELS, CO-COORDINATES AND DIMENSIONS BEFORE WORK STARTS. IN CASE OF ANY DISCREPANCY, THE MATTER SHALL BE BROUGHT TO THE NOTICE OF THE ENGINEER-IN-CHARGE.
- f. NOTE FOR EXECUTION
ALL THE WORK SHOULD BE EXECUTED UNDER THE SUPERVISION OF OWNER'S ENGINEER AND HIS DECISION WILL PREVAIL REGARDING ANY MATTER RELATED TO INTERPRETATION OF DRAWINGS AND / OR SPECIFICATION.
- g. REQUIREMENTS FOR HOT WEATHER CONCRETING SHOULD BE IN ACCORDANCE WITH ACI 305R-99 BASED ON ACI 318-05 SECTION 5.13.
- h. REQUIREMENTS FOR COLD WEATHER CONCRETING SHOULD BE IN ACCORDANCE WITH ACI 306.1-90 BASED ON ACI 318-05 SECTION 5.12.
- i. ALL CONDUITS, PIPES AND SLEEVES EMBEDDED IN CONCRETE SHOULD BE WITHIN LIMITATIONS SPECIFIED UNDER ACI-318-05 SECTION 6.3.

2 CODES AND SPECIFICATIONS

- ACI 318-08 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY
ASCE-7-05 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
IBC-2009 INTERNATIONAL BUILDING CODE (2009 IBC CODE TO BE IMPLEMENTED FOR SEISMIC DESIGN PURPOSES)
ACI-350 CODE REQUIREMENT FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES & COMMENTARY.
ACI SP-66 ACI DETAILING MANUAL
ACI 207. 1R-96 MASS CONCRETE

DEFINITIONS

- ACI AMERICAN CONCRETE INSTITUTE
ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS
IBC INTERNATIONAL BUILDING CODE

2a SEISMIC PARAMETER

- SEISMIC OCCUPANCY CATEGORY = III
SITE CLASS = 4
SEISMIC DESIGN CATEGORY = D
SEISMIC IMPORTANCE FACTOR (I) = 1.0
RESPONSE MODIFICATION FACTOR (R) = 8
SPECTRAL RESPONSE FACTORS (S) = 1.28g
SPECTRAL RESPONSE FACTORS (S) = 0.51g

2b WIND LOAD:

- DESIGN WIND LOAD FOR BUILDING SHALL BE IN ACCORDANCE WITH ASCE 7-2005. USING A BASIC WIND SPEED VELOCITY V OF 140 km/ph
WIND EXPOSURE CATEGORY = B
WIND IMPORTANCE FACTOR = 1.0

3 SOIL AND FOUNDATIONS

- a. MODULUS OF SUBGRADE REACTION CONSIDERED FOR RAFT DESIGN - 20,400 KN/cum
b. THE SOIL BEARING CAPACITY USED FOR DESIGN IS 1kg/cm².
c. EARTH UNDER ALL THE FOUNDATION SHALL BE COMPACTED TO 95%.
d. A MIN. 50MM LAYER OF PCC SHALL BE PROVIDED UNDER ALL THE FOUNDATION.

4. CAST IN PLACE CONCRETE (CYLINDRICAL STRENGTH IN

ACCORDANCE WITH ASTM C172)
FOUNDATION 28 N/mm
COLUMNS 28 N/mm
BEAMS 28 N/mm
SLAB 28 N/mm

5 REINFORCING STEEL

- a. CONCRETE REINFORCEMENT SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH RELEVANT STRUCTURAL DRAWINGS AND RELEVANT STANDARD CODES & SPECIFICATIONS.
- b. REINFORCING STEEL YIELD STRENGTH 420 N/mm
- c. REINFORCING STEEL SHALL BE ACCURATELY PLACED AND ADEQUATELY SECURED IN POSITION. LOCATION OF REINFORCEMENT SHALL BE INDICATED ON DRAWINGS. THE FOLLOWING PROTECTION FOR REINFORCEMENT SHALL BE PROVIDED, EXCEPT OTHERWISE NOTED ON DRAWINGS.

MINIMUM COVER

SHALL BE EQUAL TO DIAMETER OF LARGEST REINFORCING BAR OR AS SPECIFIED BELOW, WHICHEVER IS GREATER.

CAST AGAINST PERMANENTLY EXPOSED TO EARTH 75mm
EXPOSED TO EARTH OR WEATHER

20mm DIA THROUGH 32mm DIA 50mm
16mm DIA OR SMALLER 40mm

NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, SLAB, WALLS 20mm
BEAMS 40mm
COLUMNS 40mm

e. LAPS AND DEVELOPEMENT LENGTHS(Ld):

LAPS SHALL BE PROVIDED ONLY AT APPROVED LOCATIONS AND SHOULD BE STAGGERED. LAP LENGTH SHALL BE 'Ld' AS GIVEN BELOW.
'Ld' = FACTOR X DIAMETER OF BARS.

MULTIPLYING FACTORS

CONCRETE GRADE 4000 psi						
BAR DIA	10	12	16	20	25	32
DEVELOPMENT LENGTH FACTOR	38db	38db	38db	47db	47db	47db

db - DIA OF BAR

- f. REINFORCEMENT TO BE PROVIDED IN TWO LAYERS, IF REQUIRED TO AVOID CONGESTIONS AND FOR EASY PLACEMENT OF CONCRETE. THIS SHOULD BE REPORTED TO CONSULTANT PRIOR TO EXECUTION.
- g. REINFORCING STEEL WILL CONFORM TO ASTM615, GRADE 60
- h. MINIMUM LENGTH OF LAP FOR TENSION LAP SPLICES SHOULD BE IN ACCORDANCE WITH ACI 318-05 SECTION 12.15.1.
- i. REINFORCEMENT AND CONNECTION OF STURCTURE SHALL BE EFFECTIVELY TIED AND SHALL CONSTITUTE MINIMUM REQUIREMENTS IN ACCORDANCE WITH ACI-318-05 SECTION 7.13.
- j. MINIMUM SPACING FOR SHEAR REINFORCEMENT SHOULD BE IN ACCORDANCE WITH ACI-318-05 SECTION 11.5.5.
- k. NO SPLICE SHALL BE PERMITTED ON BEAMS AT POINTS WHERE CRITICAL BENDING STRESSES OCCUR AND NO CONSTRUCTION JOINT SHALL BE PERMITTED ON BEAMS AND SLABS AT POINTS WHERE CRITICAL SHEAR STRESSES OCCUR.
- l. THE FIRST HOOP OF BEAM SHEAR REINFORCEMENT SHALL BE LOCATED NOT MORE THAN 50MM FROM FACE OF SUPPORTING MEMBER IN ACCORDANCE WITH ACI-318-05 SECTION 21.3.3.2.
- m. COLUMN TIES SHALL BE LOCATED VERTICALLY NOT MORE THAN ONE-HALF A TIE SPACING ABOVE THE TOP OF FOOTING OR SLAB IN ACCORDANCE WITH ACI-318-05 SECTION 7.10.5.4.
- n. THE MINIMUM CLEAR SPACING OF REINFORCEMENT BETWEEN PARALLEL BARS IN A LAYER SHALL NOT BE LESS THAN 25MM IN ACCORDANCE WITH ACI-318-05 SECTION 7.6.1.

6 NOTATIONS:

(A) REINFORCED CONCRETE

- 3 -Ø10
DIA. OF BAR.
TOTAL NO. OF BARS.
- THE SPACING OF BAR IF GIVEN AFTER DIA IS INDICATED BY @ FOLLOWED BY SPACING IN MILLIMETERS LIKE THIS.
- 10 @ 200 C/C.
CENTER TO CENTER SPACING IN MM.
DIA. OF BAR.

7 ABBREVIATIONS

- ARCH. - ARCHITECTURE
BF - BOTH FACE
B/W - BOTH WAYS
B&T - TOP AND BOTTOM
C/C - CENTER TO CENTER
DWG. - DRAWING
FFL - FINISHED FLOOR LEVEL
Fn - FOOTING TYPE
GL - GROUND LEVEL
MM - MILLIMETERS
NO. - NUMBER
NOS. - NUMBERS
P.C.C. - PLAIN CEMENT CONCRETE. (GRADE M10 U.N.O.)
R.C.C - REINFORCED CEMENT CONCRETE
SBC - SAFE BEARING CAPACITY
THK. - THICKNESS
TYP. - TYPICAL
U.N.O. - UNLESS NOTED OTHERWISE

8 LEGENDS

- /@ - AT THE RATE OF
- GROUND LEVEL
- ONE WAY SLAB
- TWO WAY SLAB
- CANTILEVER SLAB
(An) - GRID NO.
Ø - DIAMETER OF REINFORCING BAR (SHEAR LUGS)

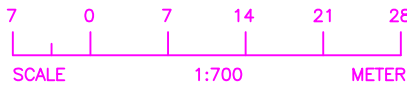
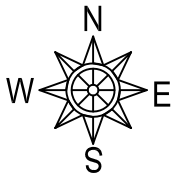
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REINFORCEMENT STANDARD SHAPES					
Based on ACI 315-99 (Details and detailing of concrete reinforcement)					
Shape Code	Shape	Shape Code	Shape	Shape Code	Shape
M_00		M_S1		M_T1	
M_01					
M_02					
M_03		M_S2		M_T2	
M_04					
M_05		M_S3		M_T3	
M_06					
M_07		M_S4		M_T6	
M_08					
M_09		M_S5		M_T7	
M_10		M_S6		M_T8	
M_11		M_S11		M_T9	
M_12					

REINFORCEMENT STANDARD SHAPES					
Based on ACI 315-99 (Details and detailing of concrete reinforcement)					
Shape Code	Shape	Shape Code	Shape	Shape Code	Shape
M_13		19			
M_14		20			
M_16		22			
M_17		23			
M_18		24			

Notes:

- All dimensions are out-to-out of bar except "A" and "G" on standard 180 and 135 degree hooks.
- "J" dimensions on 180 degree hooks to be shown only where necessary to restrict hook size, otherwise ACI standard hooks are to be used.
- Where "J" is not shown, "J" will be kept equal or less than "H" on Types 3, 5, and 22. Where "J" can exceed "H," it should be shown.
- "H" dimension stirrups to be shown where necessary to fit within concrete.
- Where bars are to be bent more accurately than standard fabricating tolerances, bending dimensions that require closer fabrication should have limits indicated.
- Type S1 through S6, S11, T1 through T3, T6 through T9; apply to bar sizes 10mm through 25mm.
- Unless otherwise noted, diameter "D" is the same for all bends and hooks on a bar (except for Types 11 and 13).

(cont'd)

Standard Hooks (ACI 315-99 Table-1) : All specific sizes recommended meet minimum requirements of ACI 318

Bar size, No.	D, in. (mm)	180 degree hook		90 degree hook
		A or G, ft-in. (mm)	J, ft-in. (mm)	A or G, ft-in. (mm)
3 (10)	2 1/4 (60)	5 (125)	3 (80)	6 (155)
4 (13)	3 (80)	6 (155)	4 (105)	8 (200)
5 (16)	3 3/4 (95)	7 (180)	5 (130)	10 (250)
6 (19)	4 1/2 (115)	8 (205)	6 (155)	1-0 (300)
7 (22)	5 1/4 (135)	10 (250)	7 (175)	1-2 (375)
8 (25)	6 (155)	11 (275)	8 (205)	1-4 (425)
9 (29)	9 1/2 (240)	1-3 (375)	11 3/4 (300)	1-7 (475)
10 (32)	10 3/4 (275)	1-5 (425)	1-1 1/4 (335)	1-10 (550)
11 (36)	12 (305)	1-7 (475)	1-2 3/4 (375)	2-0 (600)
14 (43)	18 1/4 (465)	2-3 (675)	1-9 3/4 (550)	2-7 (775)
18 (57)	24 (610)	3-0 (925)	2-4 1/2 (725)	3-5 (1050)

Stirrup & Tie Hooks (ACI 315-99 Table-1) : All specific sizes recommended meet minimum requirements of ACI 318

Bar size, No.	D, in. (mm)	90 degree hook	135 degree hook	
		Hook A or G, ft-in. (mm)	Hook A or G, ft-in. (mm)	H approx., ft-in. (mm)
3 (10)	1 1/2 (40)	4 (105)	4 (105)	2 1/2 (65)
4 (13)	2 (50)	4 1/2 (115)	4 1/2 (115)	3 (80)
5 (16)	2 1/2 (65)	6 (155)	5 1/2 (140)	3 3/4 (95)
6 (19)	4 1/2 (115)	1-0 (305)	8 (205)	4 1/2 (115)
7 (22)	5 1/4 (135)	1-2 (355)	9 (230)	5 1/4 (135)
8 (25)	6 (155)	1-4 (410)	10 1/2 (270)	6 (155)

LOGOS



KEY-PLAN

NOTES :

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REVISIONS

DATE	DESCRIPTION	DRN	BY	CHK	BY	APP	BY

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PATRIP FOUNDATION

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TRADE CENTER, KOHSAN DISTRICT, ISLAM QALA TOWN
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REINFORCEMENT STANDARD SHAPES

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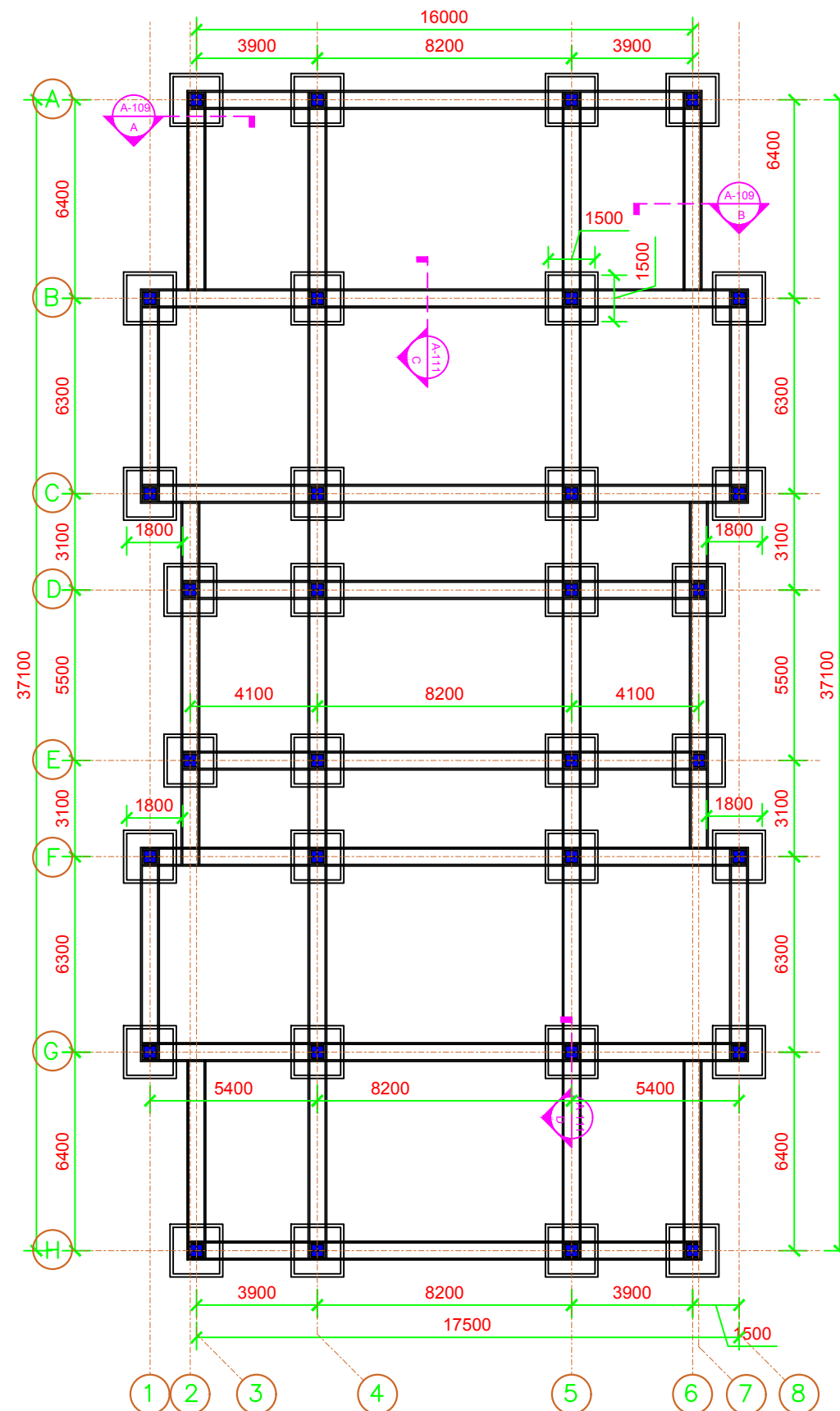
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PEDESTAL CONSTRUCTION COMPANY



A | Foundation Plan

PR-B-A-01 | SCALE:

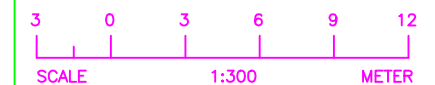
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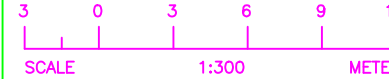
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FOUNDATION DETAILS

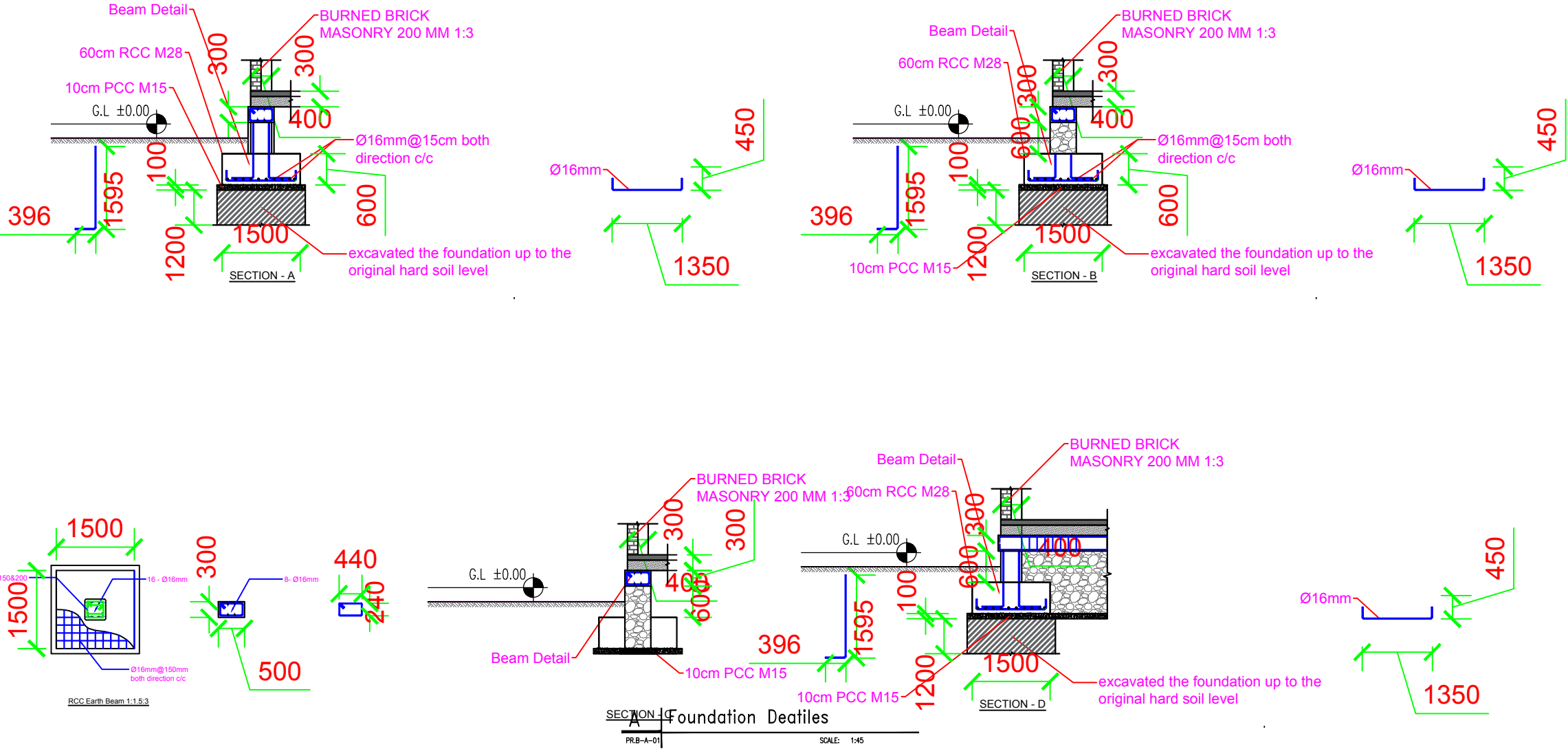
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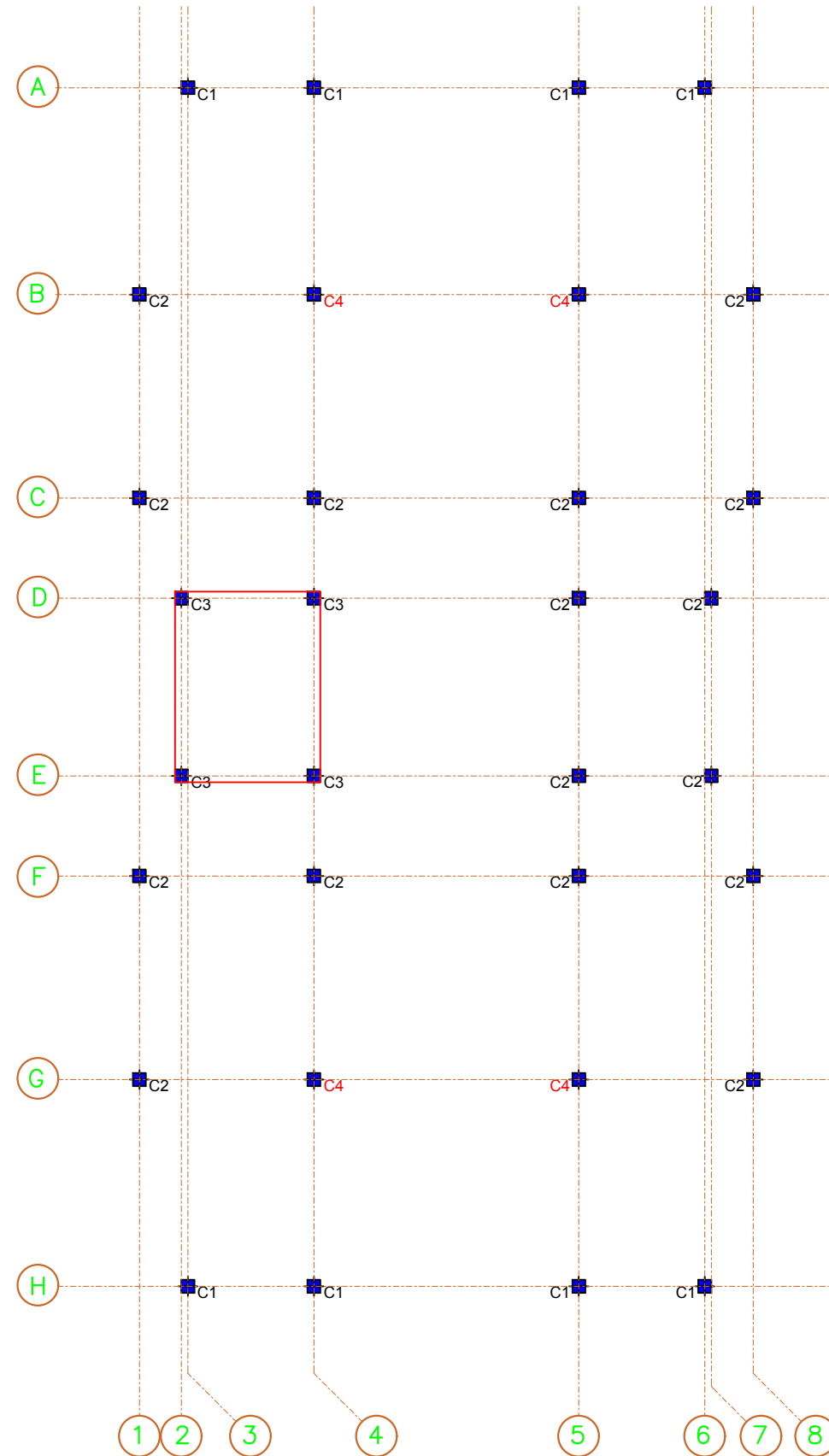
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A | AXIS COLUMN PLAN
PR.B-A-01 | SCALE:

LOGOS



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Help

Hilfe zur Selbsthilfe

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AXIS COLUMN


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	S-102	06

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EDESTA

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LOGOS



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TYPE OF COLUMN

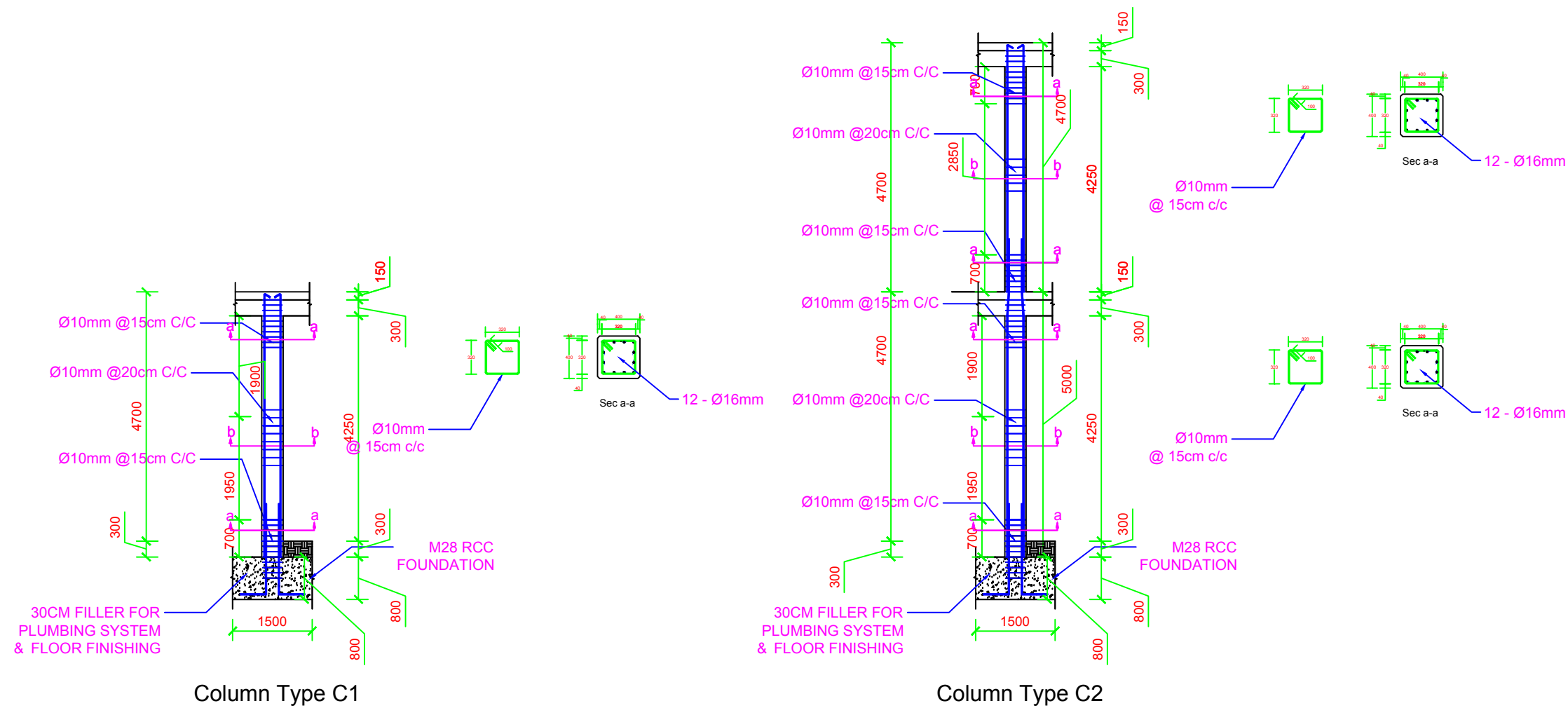
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	S-103	07

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Column Type C1

Column Type C2

A | Column Details
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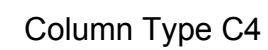
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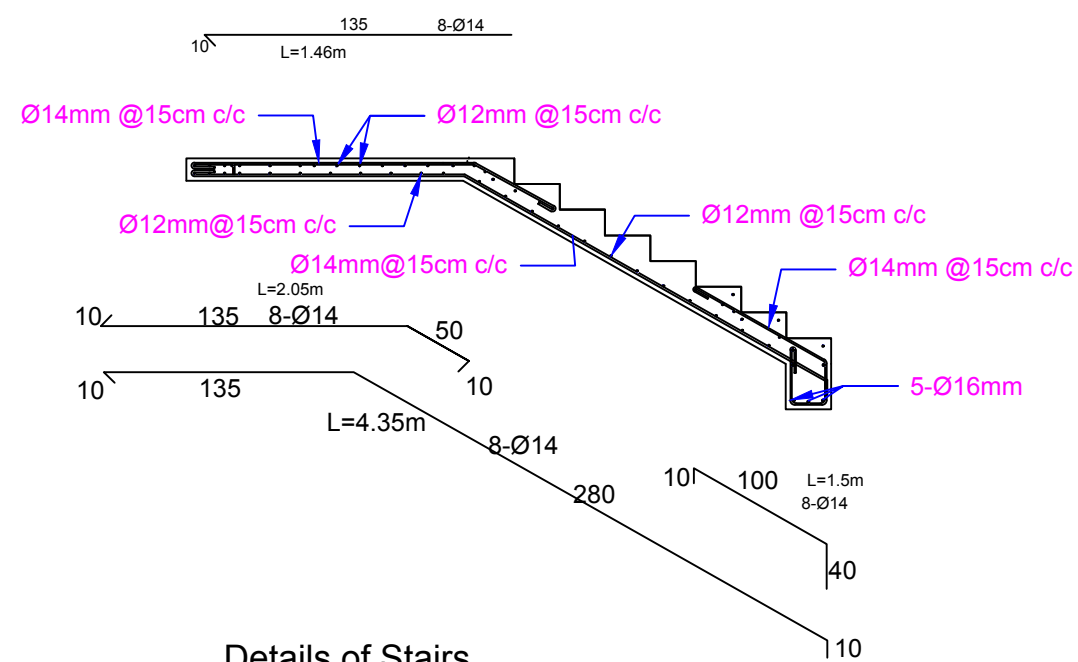
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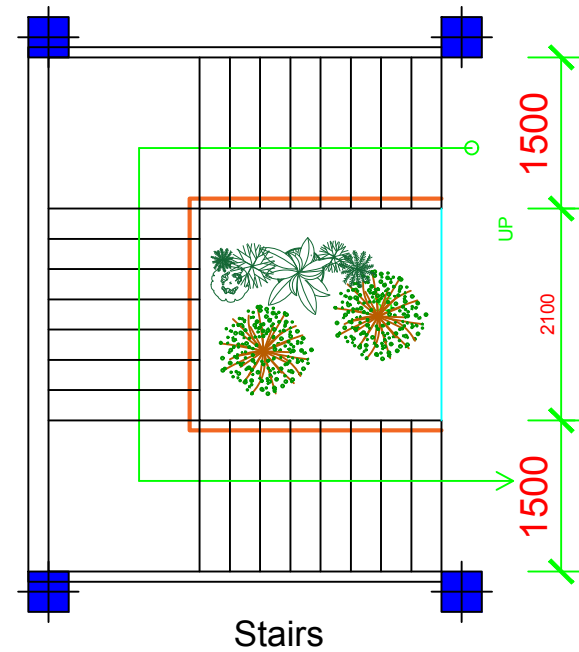
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SCALE 1:300 METER

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Details of Stairs



Stairs

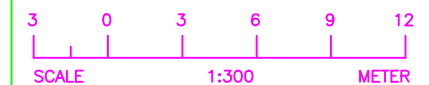
LOGOS



KEY-PLAN

NOTES :

1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.



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PROJECT NAME/CODE NO
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DRAWING TITLE
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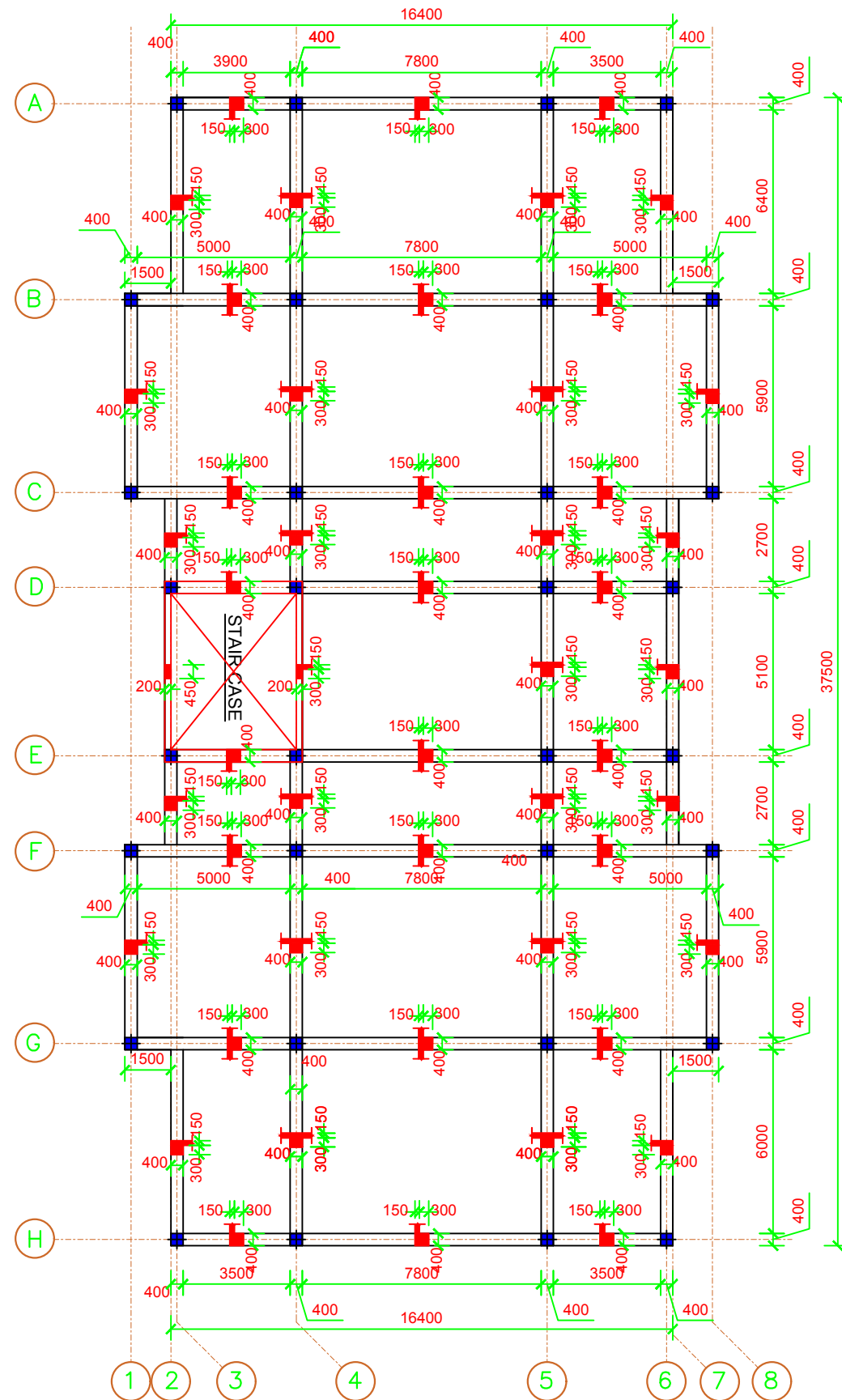
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PROJECT ID	DRAWING NUMBER	PAGE NUMBER
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SCALE	1:75	DATE:	DEC.23.2020
DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY:	ENG. MEHRAN ARIB
DRAWN BY:	ENG. BESMULLAH FOR	APPROVED BY:	

DESIGN AGENCY :

PEDESTAL CONSTRUCTION COMPANY



A First Floor Shuttering Plan
PR.B-A-01 SCALE:

LOGOS



KEY-PLAN

NOTES :

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PREPARE DETAILED DESIGN DOCUMENTATION, WOMEN
TRADE CENTER,KOHSAN DISTRICT, ISLAM QALA TOWN
AFG 106-19/AFG-HELP-KOS-001-PROJECT

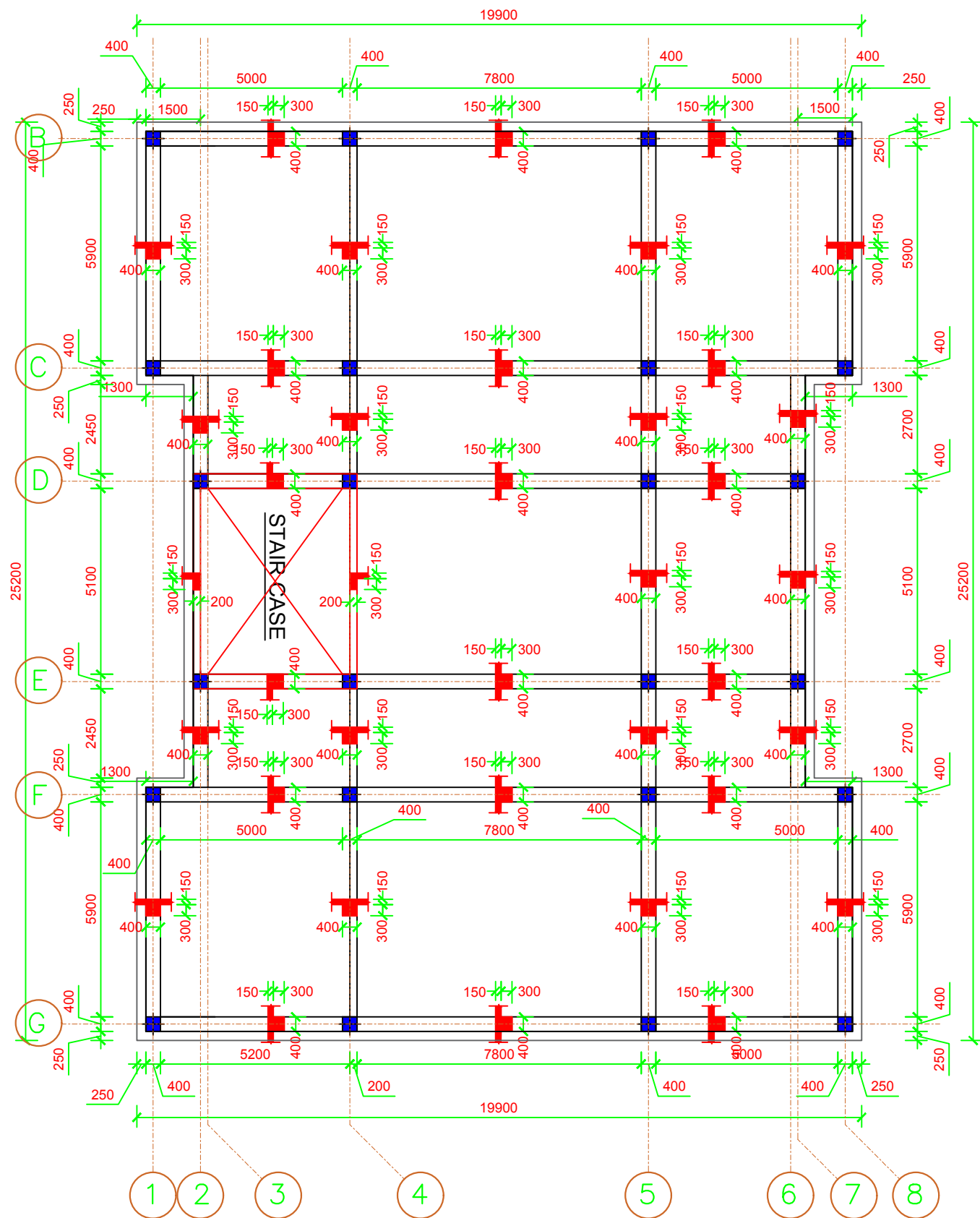
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FIRST FLOOR SHUTTERING PLAN

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PROJECT ID	DRAWING NUMBER	PAGE NUMBER
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SCALE	1:200	DATE: DEC.23.2020
DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY: ENG. MEHRAN ARIB
DRAWN BY:	ENG BESMULLAH FOR	APPROVED BY:

DESIGN AGENCY :

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A | Second Floor Shuttering Plan
PR.B-A-01 | SCALE:

LOGOS



KEY-PLAN

NOTES :

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DRAWING TITLE
SECOND FLOOR SHUTTERING PLAN

ISSUED FOR
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PROJECT ID	DRAWING NUMBER	PAGE NUMBER
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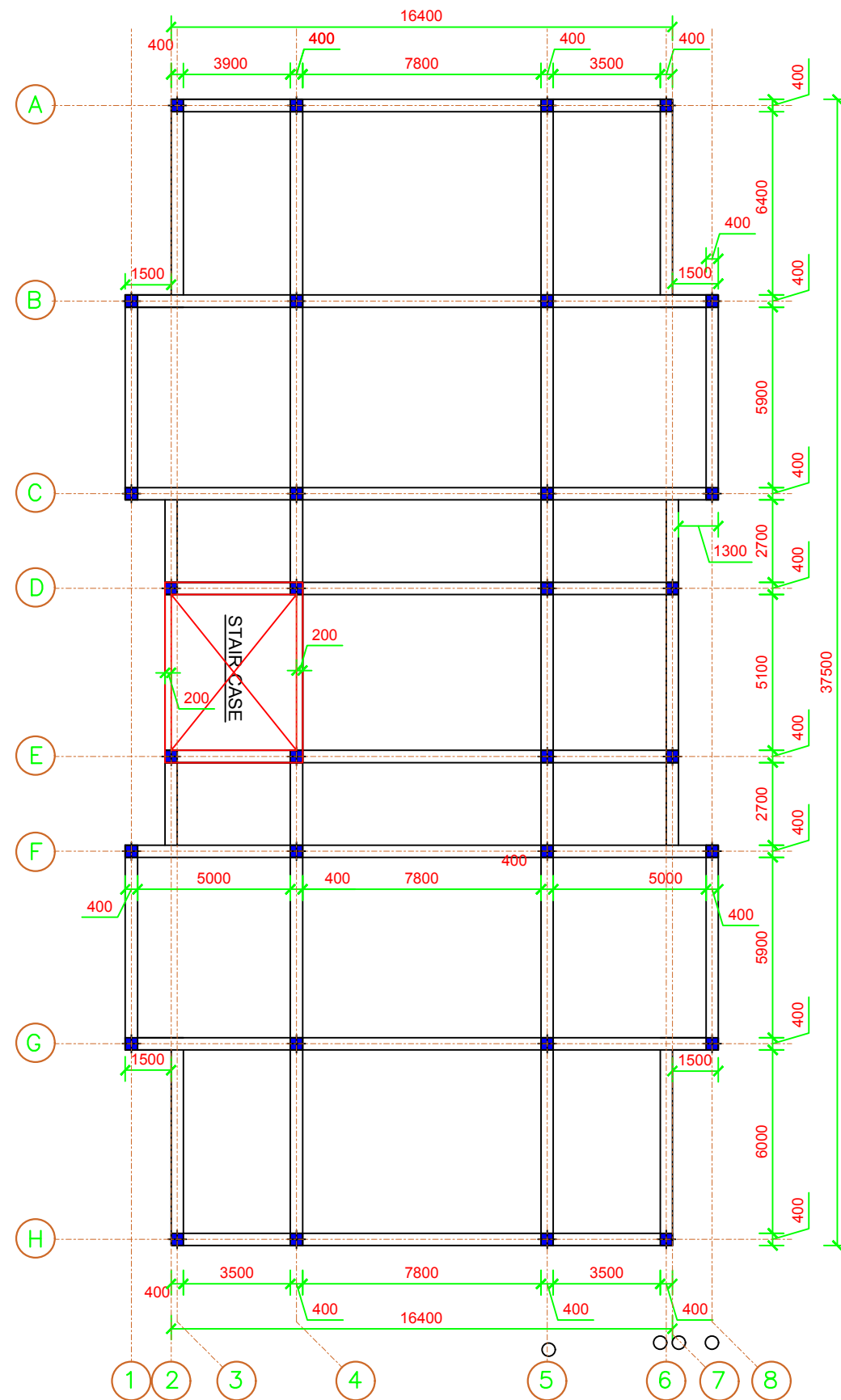
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DRAWN BY: ENG. BESMULLAH FOR. APPROVED BY:

DESIGN AGENCY :



PEDESTAL CONSTRUCTION COMPANY



A | First Floor Beam Plan

PR.B-A-01

SCALE:

LOGOS



KEY-PLAN

NOTES :

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PROJECT NAME/CODE NO

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FIRST FLOOR BEAM PLAN

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PROJECT ID

DRAWING NUMBER

PAGE NUMBER

SCALE

DATE

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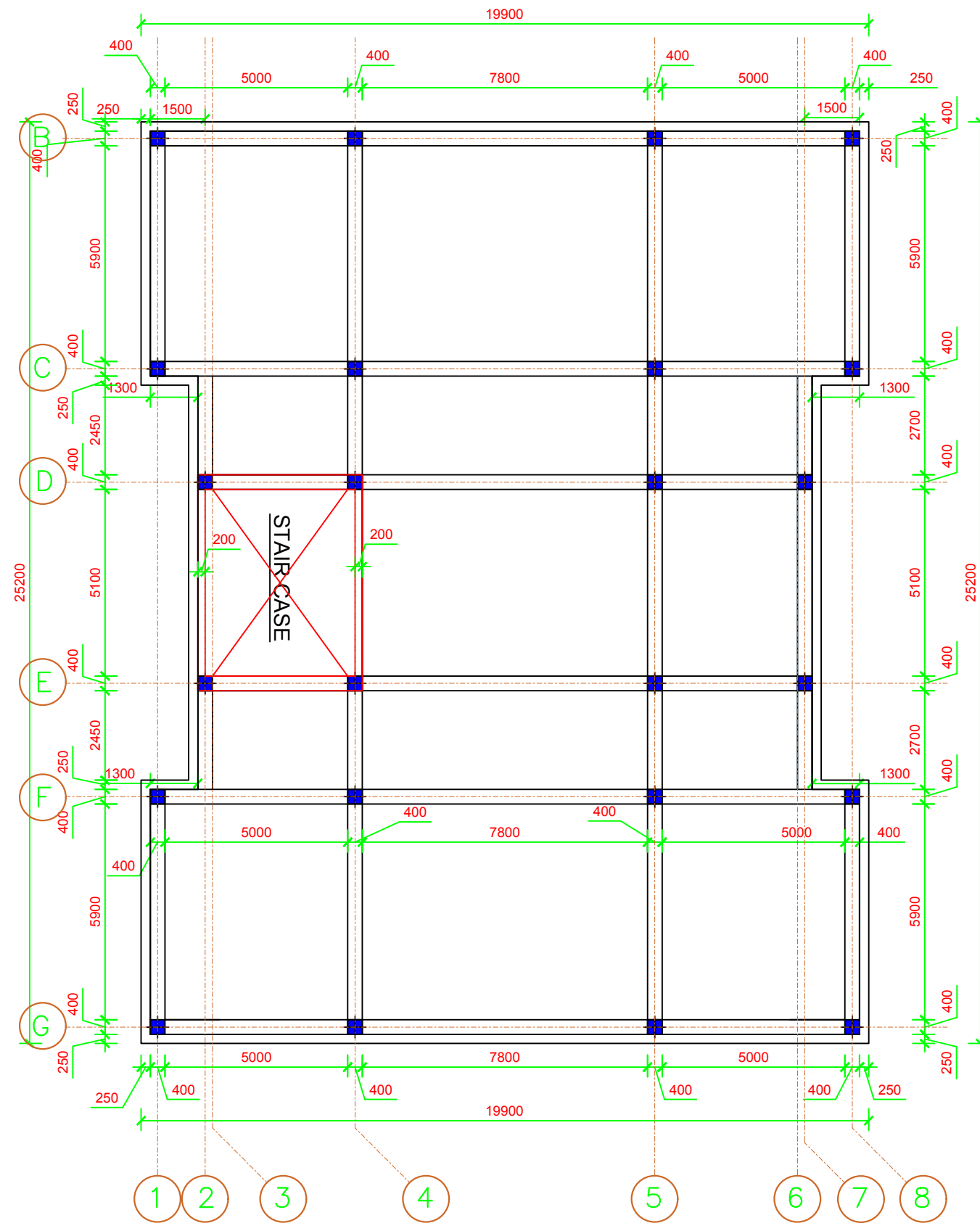
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A | Second Floor Beam Plan
PR.B-A-01 | SCALE:

LOGOS



PATRIP
FOUNDATION



Help
Hilfe zur Selbsthilfe

KEY-PLAN

NOTES :
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3036912

SCALE1:300METER

REVISIONS

DATE	DESCRIPTION	DRN	BY	CHK	BYAPP	BY

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DRAWING TITLE
SECOND FLOOR BEAM PLAN

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PROJECT ID	DRAWING NUMBER	PAGE NUMBER
	S-109	13

SCALE	1:150	DATE:	DEC.23.2020
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DRAWN BY:	ENG BESMULLAH FOR	APPROVED BY:	

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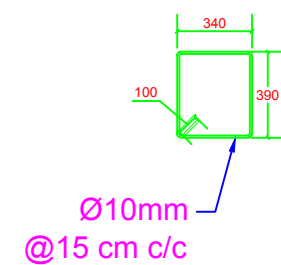
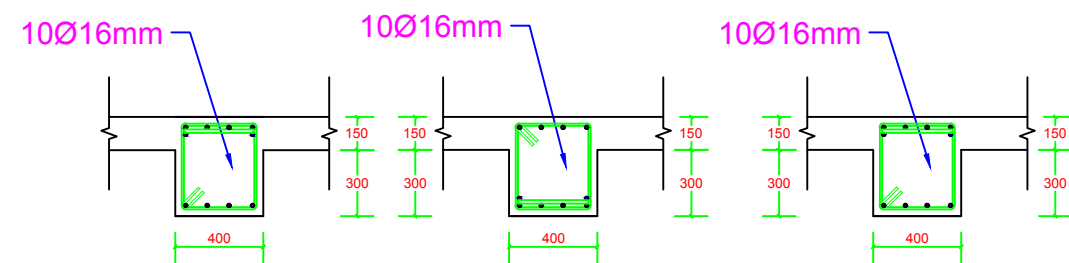
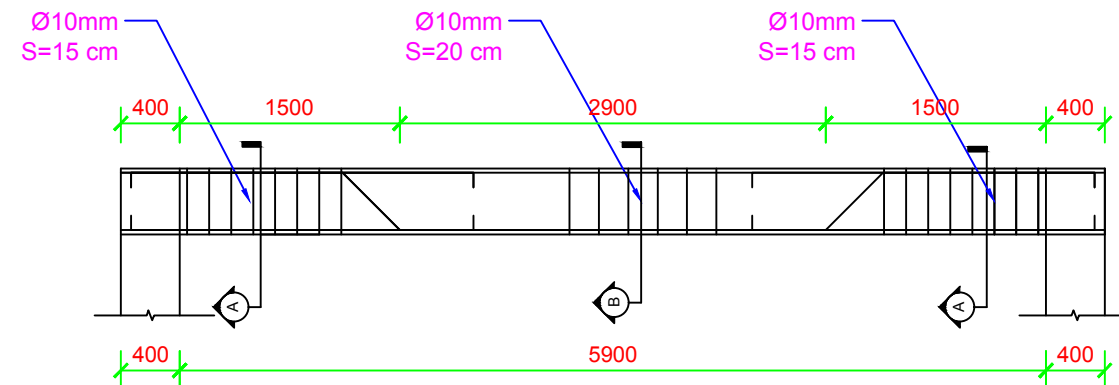
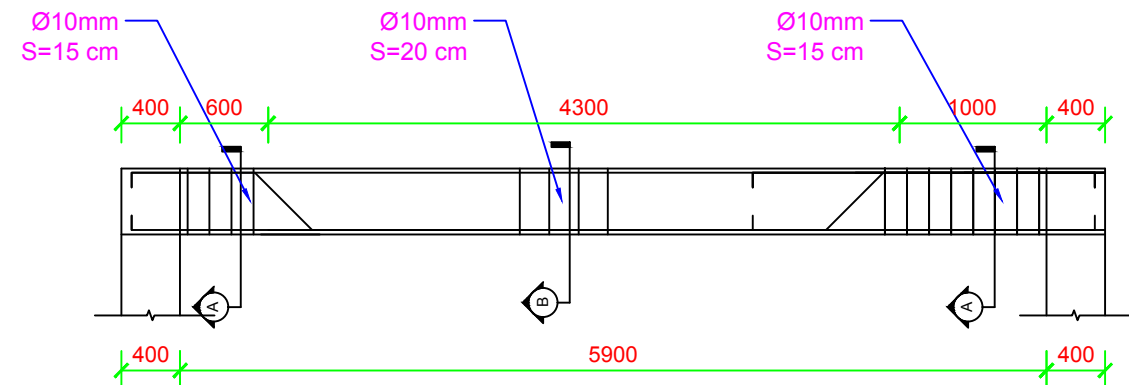


EDESTA

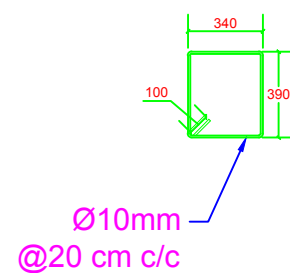
PEDDESTAL CONSTRUCTION COMPANY

PEDDESTAL CONSTRUCTION COMPANY

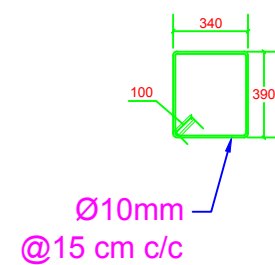
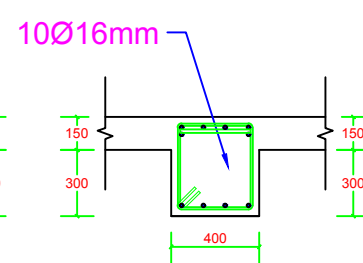
FRAME 1&8 (8 Pcs)



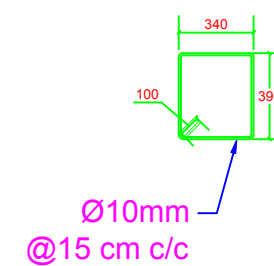
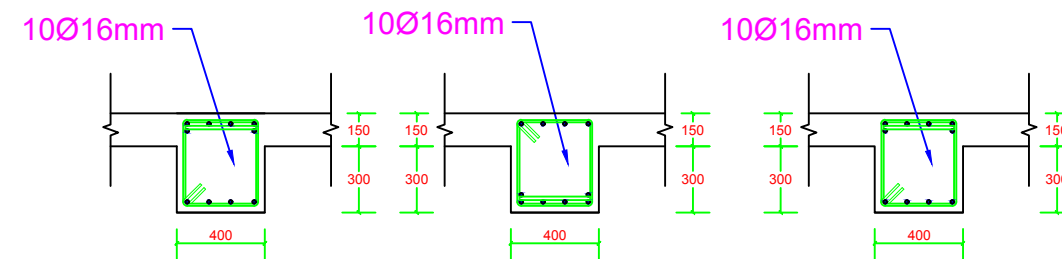
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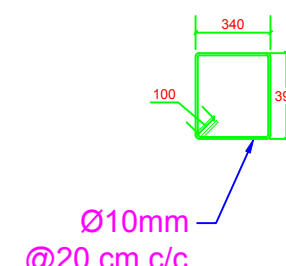
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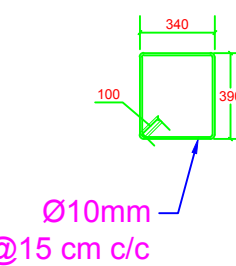
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Section A



Section B



Section A

Details of Beams

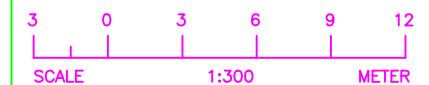
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KEY-PLAN

NOTES :

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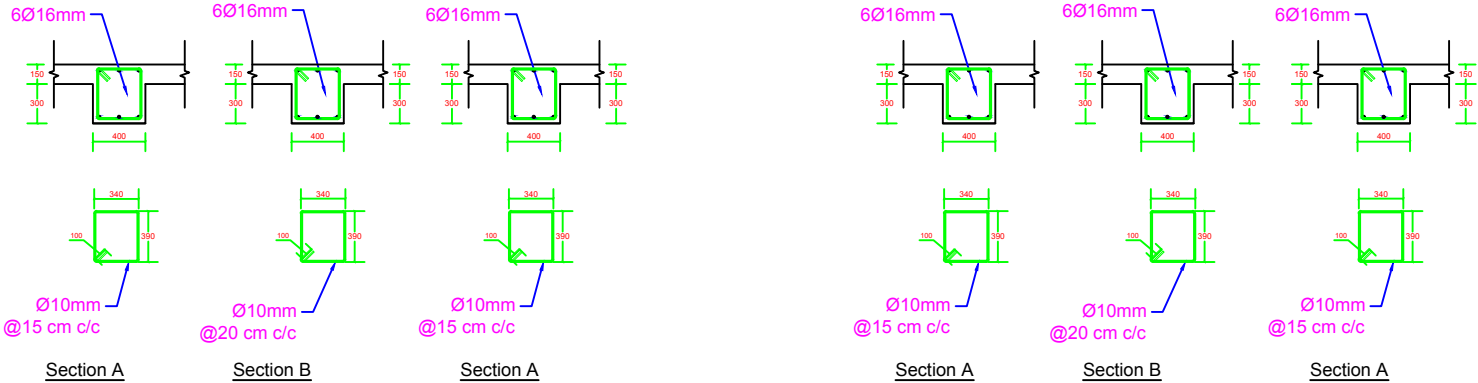
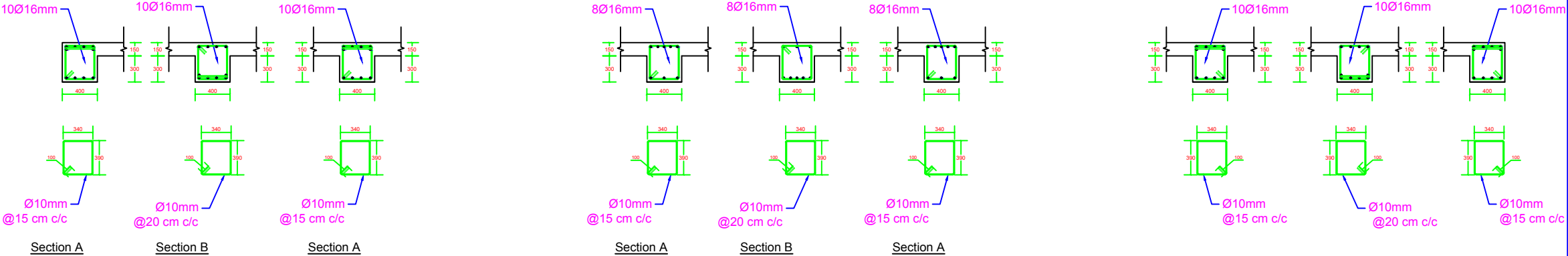
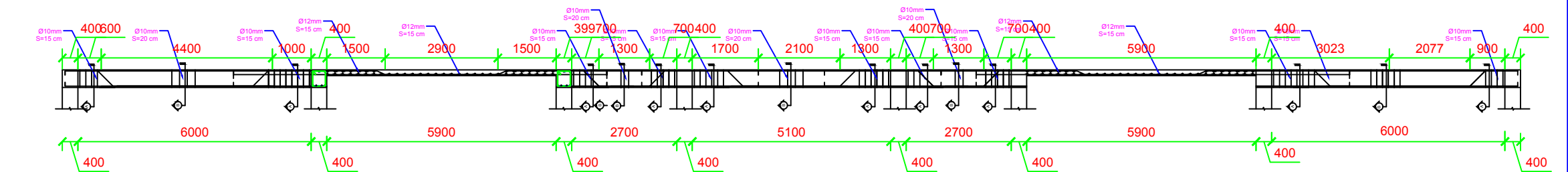
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SCALE	1:80	DATE	DEC.23.2020
DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY:	ENG. MEHRAN ARIB
DRAWN BY:	ENG. BESMULLAH FOR	APPROVED BY:	

DESIGN AGENCY :

PEDESTAL CONSTRUCTION COMPANY

FIRST FLOOR FRAME 2&3&6&7 (2 Pcs)



Details of Beams

LOGOS

KEY-PLAN

NOTES :
1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

3036912

SCALE1:300METER

REVISIONS

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DRAWING TITLE
BEAM DETAILS

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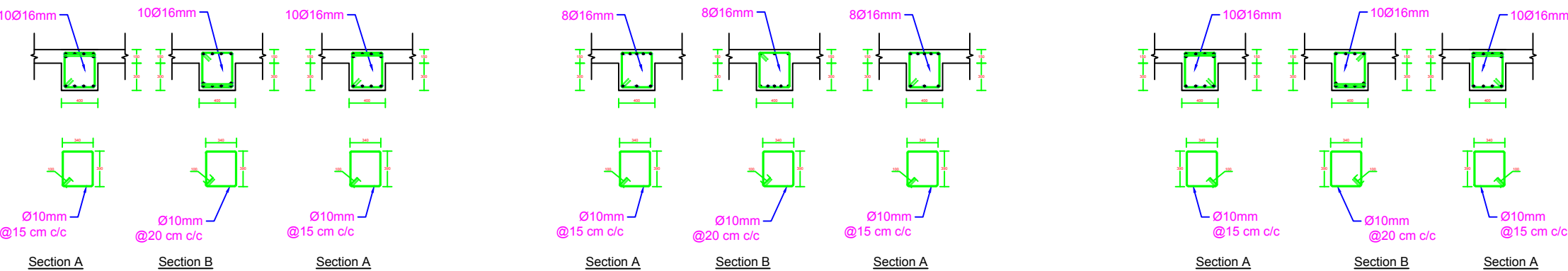
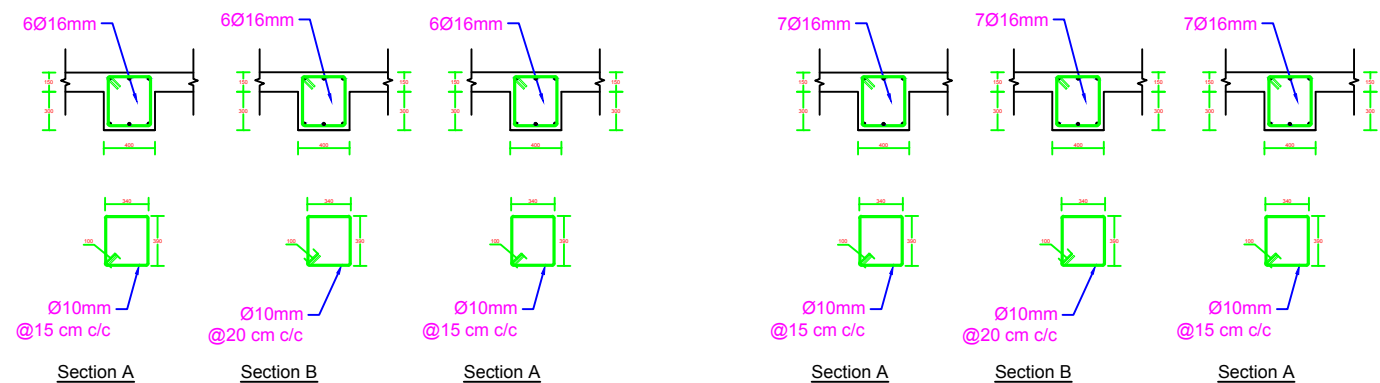
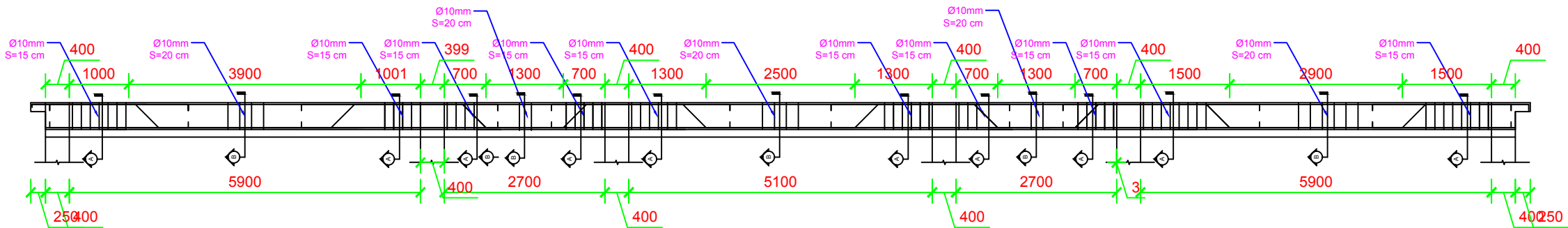
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DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY:	ENG. MEHRAN ARIB
DRAWN BY:	ENG. BESMULLAH FOR.	APPROVED BY:	

DESIGN AGENCY :

PEDESTAL CONSTRUCTION COMPANY

SECOND FLOOR FRAME 4&5 (2 Pcs)



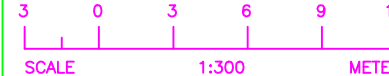
Details of Beams

LOGOS



KEY-PLAN

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TRADE CENTER, KOHSAN DISTRICT, ISLAM QALA TOWN
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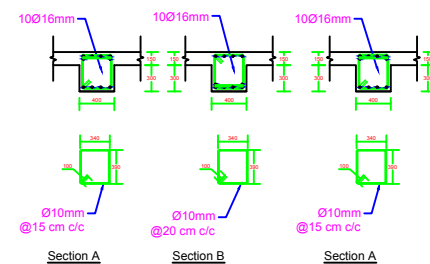
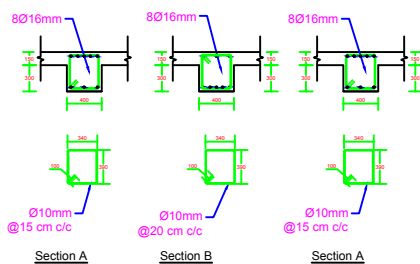
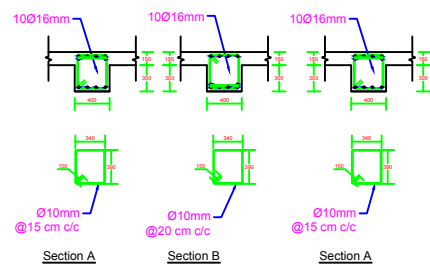
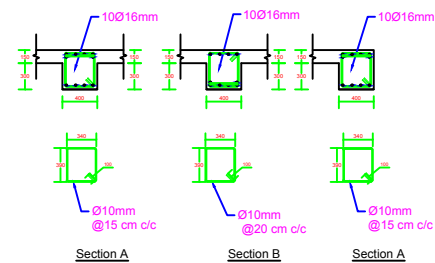
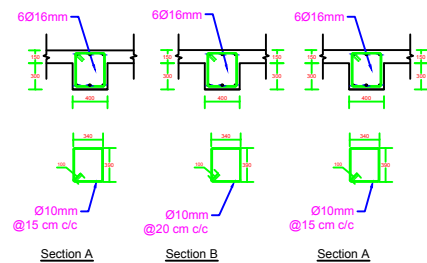
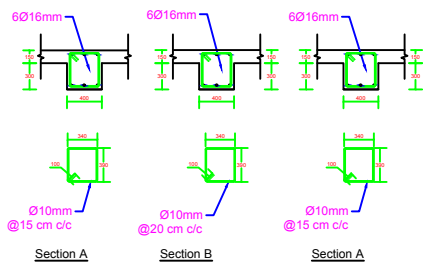
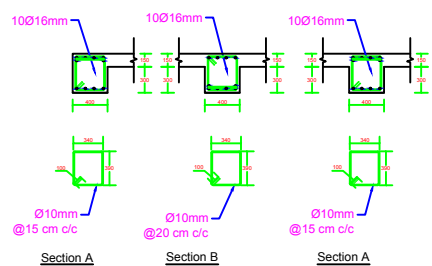
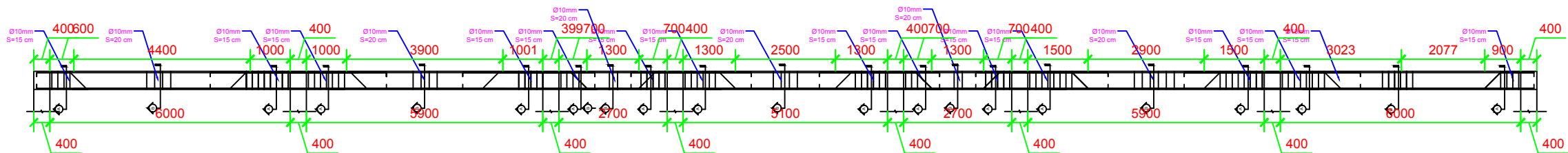
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PROJECT ID	DRAWING NUMBER	PAGE NUMBER
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DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY: ENG. MEHRAN ARIB
DRAWN BY:	ENG. BESMULLAH FOR	APPROVED BY:



FIRST FLOOR FRAME 3&4&5&6 (2 Pcs)



Details of Beams

LOGOS



KEY-PLAN

NOTES :

1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.



REVISIONS				
DATE	DESCRIPTION	DRN	BY	CHK

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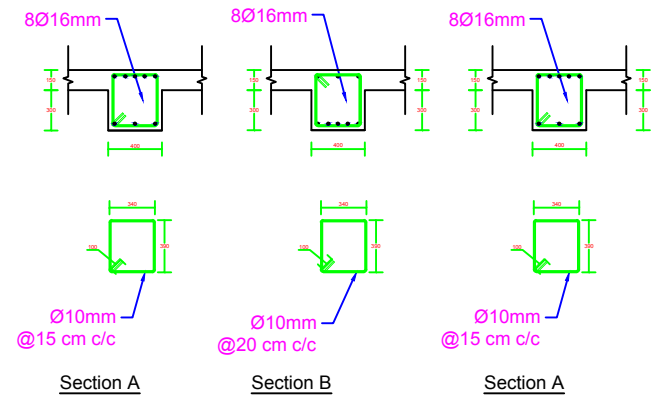
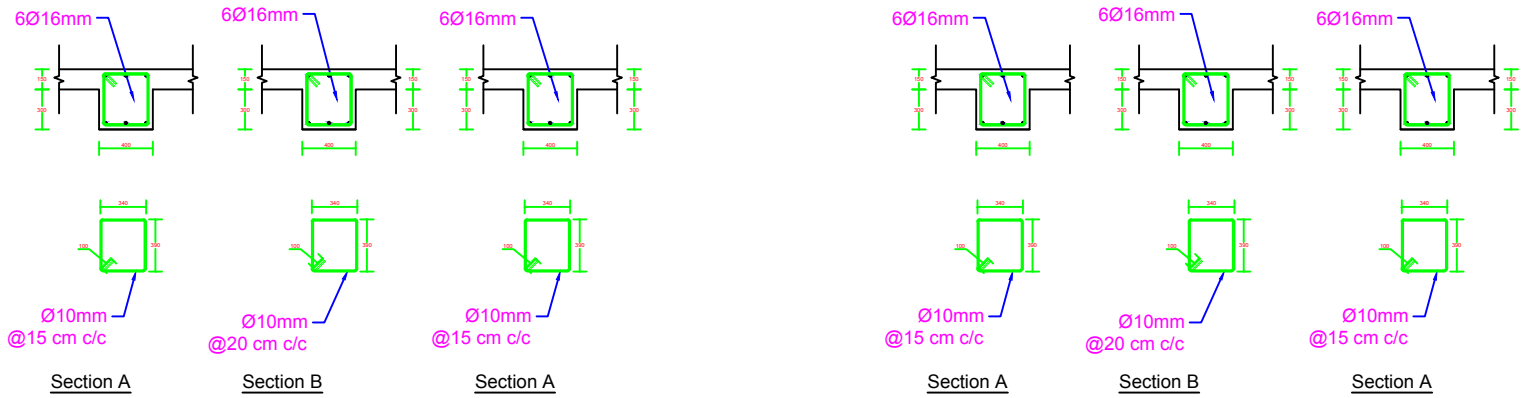
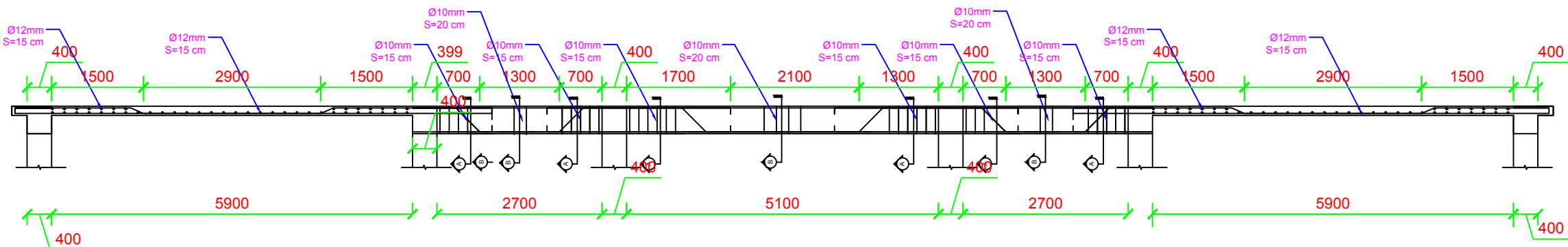
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PROJECT ID	DRAWING NUMBER	PAGE NUMBER
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DRAWN BY:	ENG BESMULLAH FOR	APPROVED BY:	



FIRST FLOOR FRAME 2&3&6&7 (2 Pcs)



Details of Beams

LOGOS

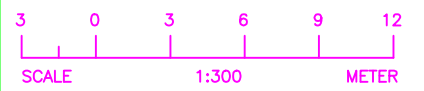
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Hilfe zur Selbsthilfe

KEY-PLAN

NOTES :
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DRAWING TITLE
BEAM DETAILS

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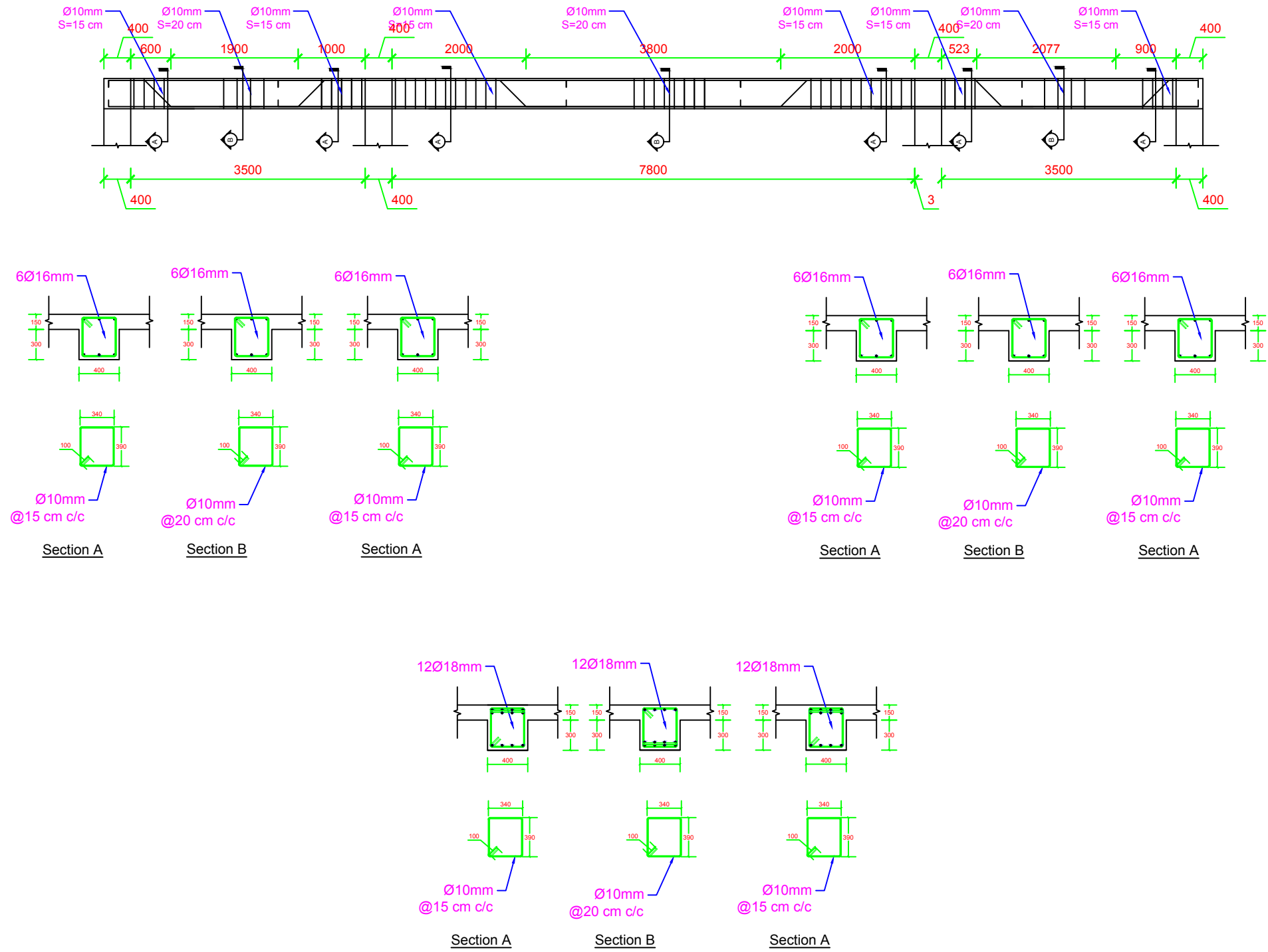
PROJECT ID	DRAWING NUMBER	PAGE NUMBER
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DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY: ENG. MEHRAN ARIB
DRAWN BY:	ENG. BESMULLAH FOR	APPROVED BY:

DESIGN AGENCY :

EDESTA


PEDESTAL CONSTRUCTION COMPANY

FRAME A&D&E&H (6 Pcs)




Details of Beams

LOGOS



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KEY-PLAN

NOTES :

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3036912

SCALE1:300METER

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AFG 106-19/AFG-HELP-KOS-001-PROJECT

DRAWING TITLE

BEAM DETAILS


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PROJECT ID	DRAWING NUMBER	PAGE NUMBER
	S-115	19

SCALE	1:75	DATE:	DEC.23.2020
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DRAWN BY:	ENG. BESMULLAH FOR	APPROVED BY:	

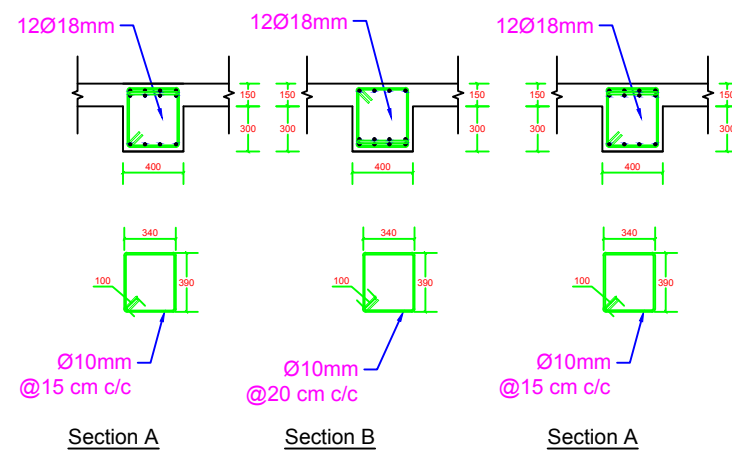
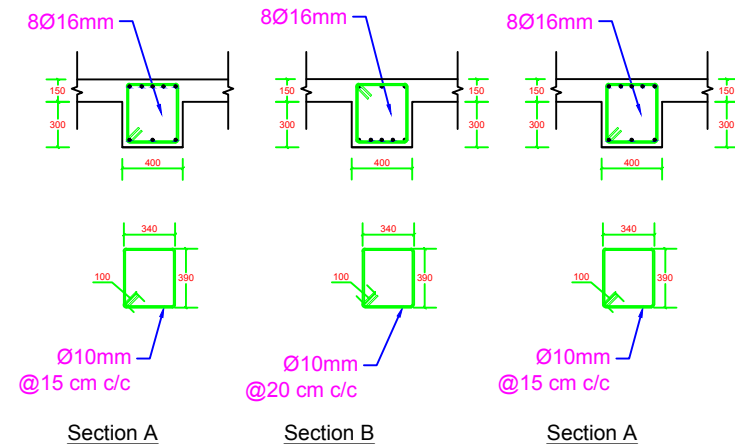
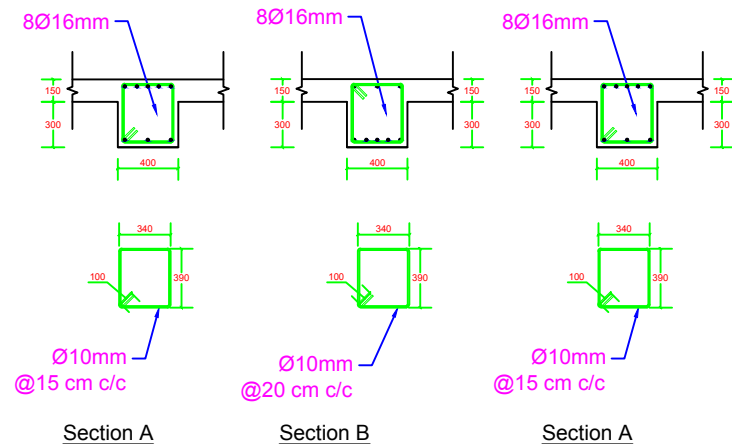
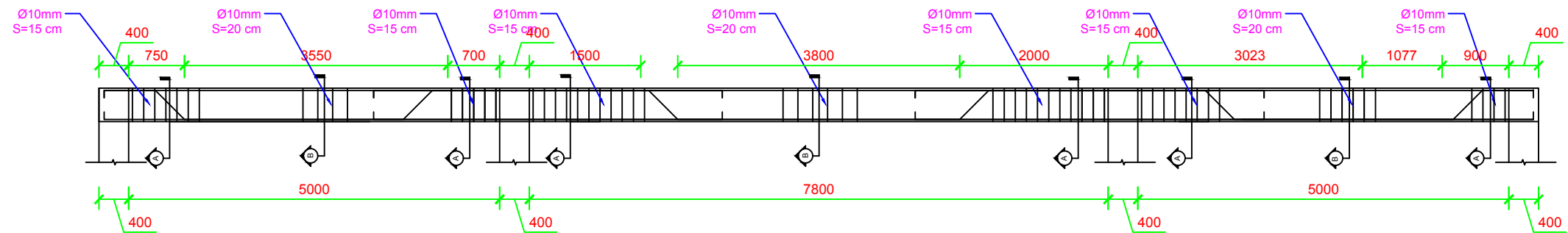
DESIGN AGENCY :



EDESTA

PEDESTAL CONSTRUCTION COMPANY

FIRST FLOOR&SECOND FLOOR FRAME B&C&F&G (8 Pcs)



Details of Beams

LOGOS



KEY-PLAN

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AFG 106-19/AFG-HELP-KOS-001-PROJECT

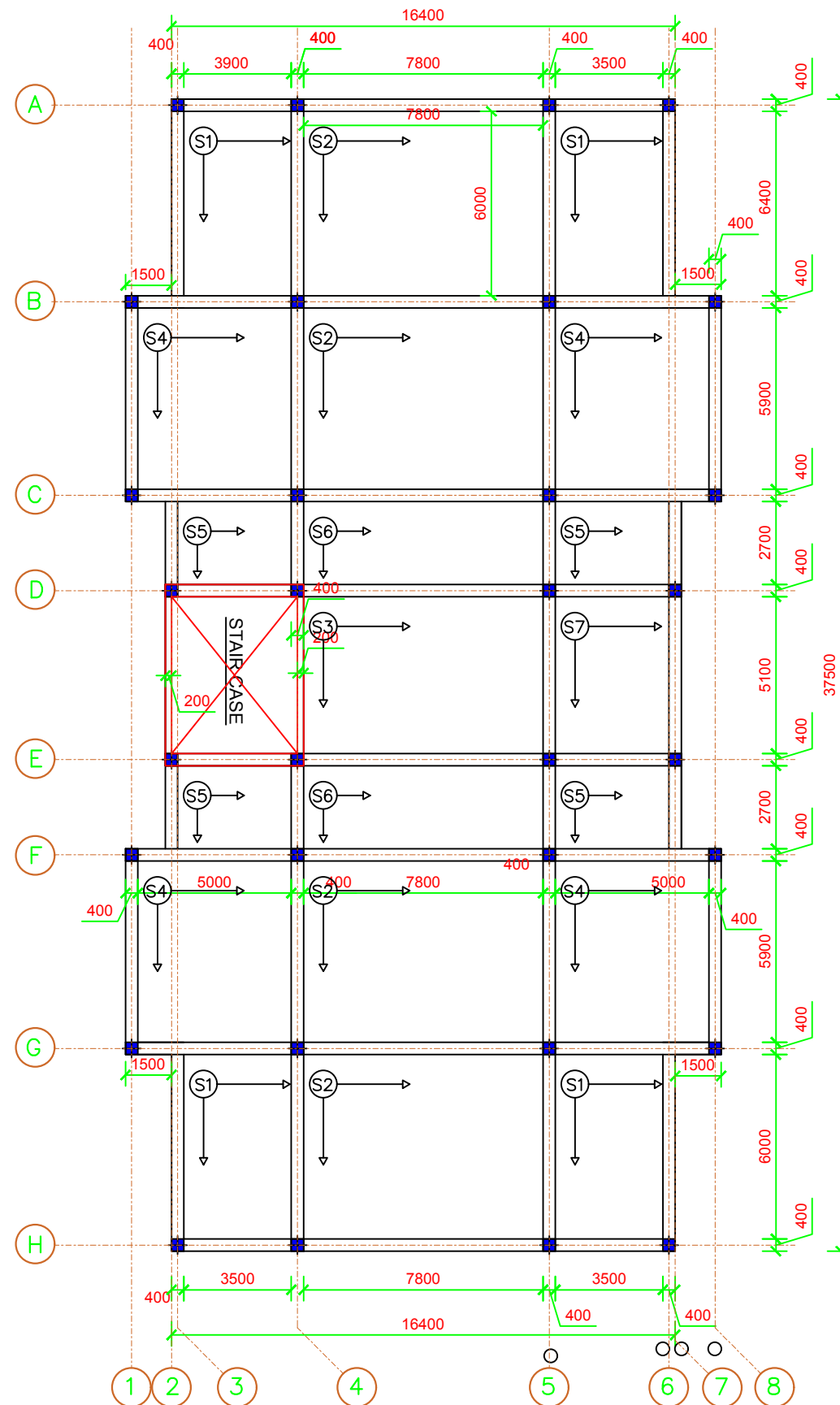
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BEAM DETAILS

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REVISION

PROJECT ID	DRAWING NUMBER	PAGE NUMBER
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DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY: ENG. MEHRAN ARIB
DRAWN BY:	ENG. BESMULLAH FOR	APPROVED BY:

DESIGN AGENCY :

PEDESTAL CONSTRUCTION COMPANY



A | First Floor Slab Plan

PR.B-A-01 SCALE:

LOGOS



KEY-PLAN

NOTES :

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DRAWING TITLE
BEAM DETAILS

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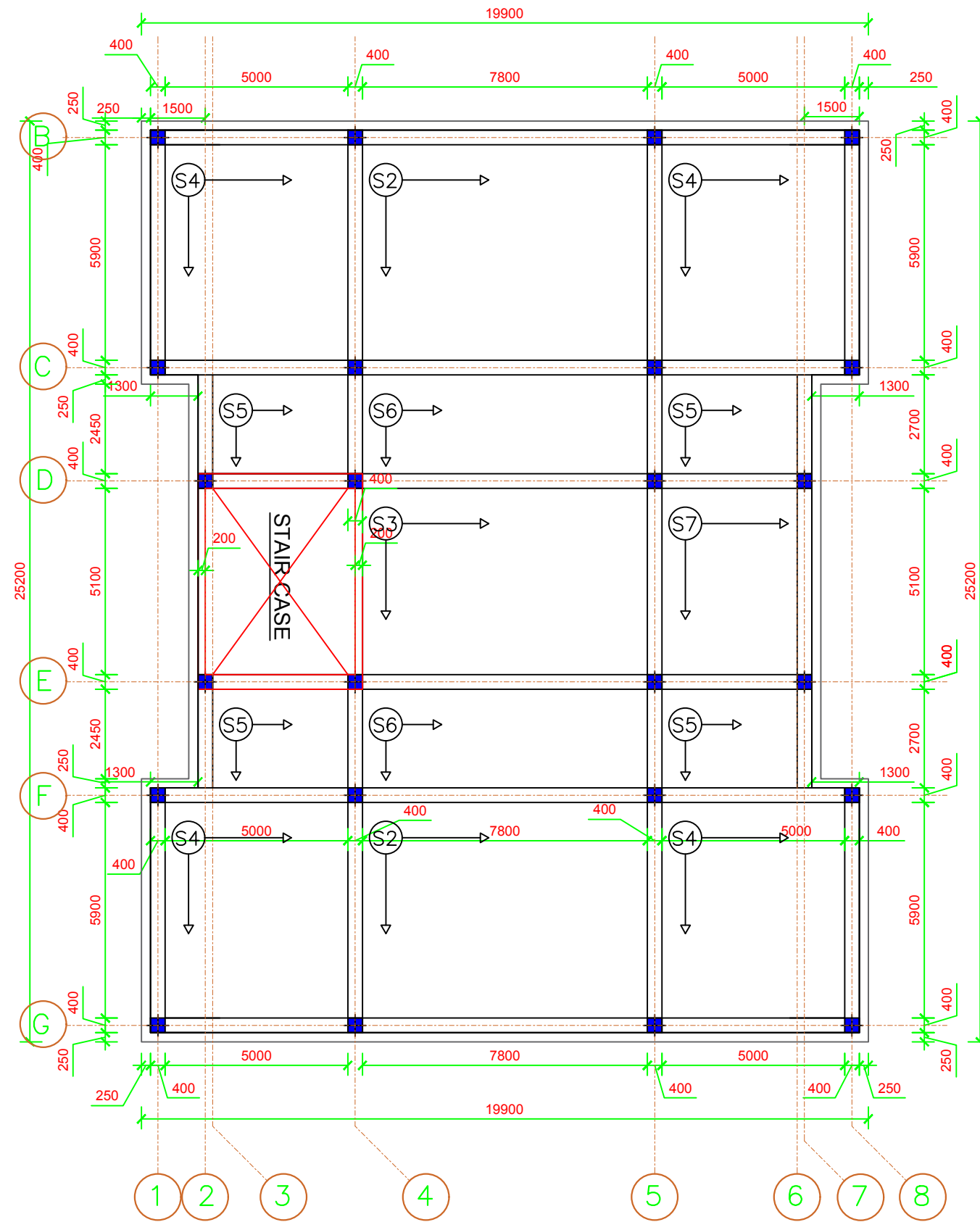
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DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY:	ENG. MEHRAN ARIB
DRAWN BY:	ENG BESMULLAH FOR	APPROVED BY:	

DESIGN AGENCY :



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A | Second Floor Slab Plan
PR.B-A-01 | SCALE:

KEY-PLAN

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PROJECT ID	DRAWING NUMBER	PAGE NUMBER
	S-118	22
SCALE	1:150	DATE: DEC.23.2020
DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY: ENG. MEHRAN ARIB
DRAWN BY:	ENG BESMULLAH FOR	APPROVED BY:

Table for Reinforcement of Slabs

Slab		Bottom Reinforcement		Top Reinforcement		Construction	Remarks
		Straight Bars	Bent up Bars	Right Support	Left Support	Reinforcement	
S1	Short dir.	12mm@15cm c/c	12mm@15cm c/c	12mm@15cm c/c	12mm@15cm c/c	12mm@30cm c/c	
	Long dir.	12mm@20cm c/c	12mm@20cm c/c	12mm@20cm c/c	12mm@20cm c/c	12mm@30cm c/c	
S2	Short dir.	14mm@15cm c/c	14mm@15cm c/c	14mm@15cm c/c	14mm@15cm c/c	12mm@30cm c/c	
	Long dir.	14mm@15cm c/c	14mm@15cm c/c	14mm@15cm c/c	14mm@15cm c/c	12mm@30cm c/c	
S3	Short dir.	12mm@15cm c/c	12mm@15cm c/c	12mm@15cm c/c	12mm@15cm c/c	12mm@30cm c/c	
	Long dir.	12mm@20cm c/c	12mm@20cm c/c	12mm@20cm c/c	12mm@20cm c/c	12mm@30cm c/c	
S4	Short dir.	12mm@15cm c/c	12mm@15cm c/c	12mm@15cm c/c	12mm@15cm c/c	12mm@30cm c/c	
	Long dir.	12mm@20cm c/c	12mm@20cm c/c	12mm@20cm c/c	12mm@20cm c/c	12mm@30cm c/c	
S5	Short dir.	12mm@20cm c/c	12mm@20cm c/c	12mm@20cm c/c	12mm@20cm c/c	12mm@30cm c/c	
	Long dir.	12mm@20cm c/c	12mm@20cm c/c	12mm@20cm c/c	12mm@20cm c/c	12mm@30cm c/c	
S6	Short dir.	12mm@15cm c/c	12mm@15cm c/c	12mm@15cm c/c	12mm@15cm c/c	12mm@30cm c/c	
	Long dir.	12mm@20cm c/c	12mm@20cm c/c	12mm@20cm c/c	12mm@20cm c/c	12mm@30cm c/c	
S7	Short dir.	12mm@15cm c/c	12mm@15cm c/c	12mm@15cm c/c	12mm@15cm c/c	12mm@30cm c/c	
	Long dir.	12mm@20cm c/c	12mm@20cm c/c	12mm@20cm c/c	12mm@20cm c/c	12mm@30cm c/c	

NOTE: FOR BEND UP OF REINFORCEMENTS SEE PAGE-03

LOGOS



KEY-PLAN

NOTES :

1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.



REVISIONS

DATE	DESCRIPTION	DRN	BY	CHK	BY	APP	BY

CLIENT

HELP OFFICE - HERAT

DONOR

PATRIP FOUNDATION

PROJECT NAME/CODE NO

PREPARE DETAILED DESIGN DOCUMENTATION, WOMEN
TRADE CENTER,KOHSAN DISTRICT, ISLAM QALA TOWN
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DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY:	ENG. MEHRAN ARIB

DRAWN BY:	ENG BESMULLAH FOR	APPROVED BY:	
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DESIGN AGENCY :



PEDESTAL CONSTRUCTION COMPANY