



CONSTRUCTION OF WOMEN TRADE CENTER

(YARD WORKS, 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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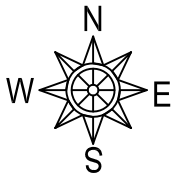
LOGOS



KEY-PLAN

NOTES :

1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.



REVISIONS

DATE	DESCRIPTION	DRN	BY	CHK	BY	APP	BY

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DRAWING TITLE
SITE PLAN

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	I-100	01

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DRAWN BY:	ENG.BESMULLAH FOR.	APPROVED BY:	

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)

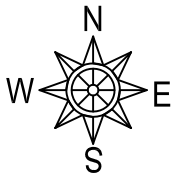
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KEY-PLAN

NOTES :

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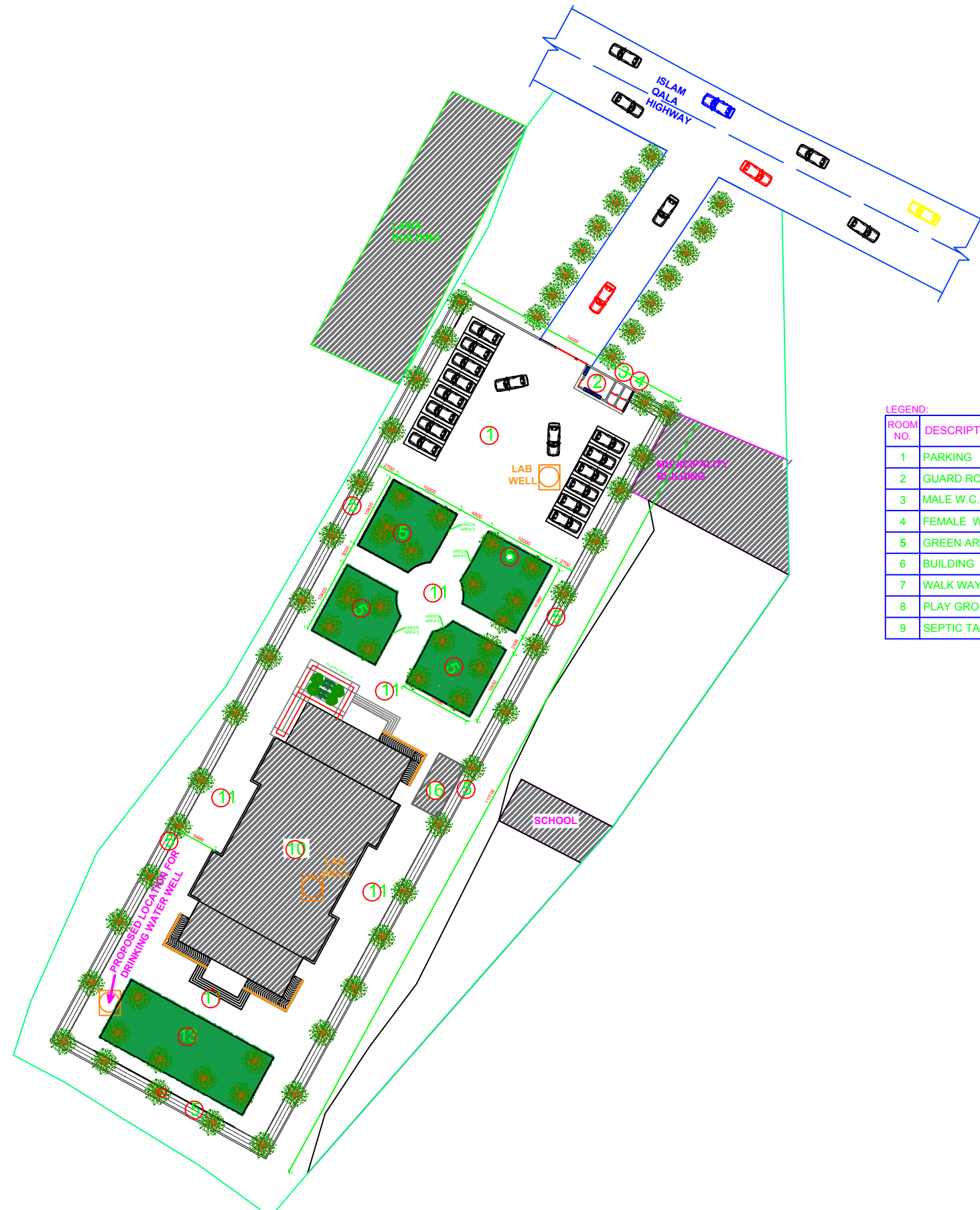
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PEDESTAL CONSTRUCTION COMPANY



LEGEND:

ROOM NO.	DESCRIPTIONS	AREA (Sqm)	WIDTH (Sqm)
1	PARKING	200	
2	GUARD ROOM	36	
3	MALE W.C.	8	
4	FEMALE W.C.	8	
5	GREEN AREAS	833	
6	BUILDING	1171	
7	WALK WAYS	1997	
8	PLAY GROUND	200	
9	SEPTIC TANK	32	

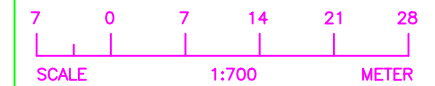
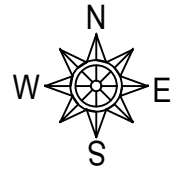
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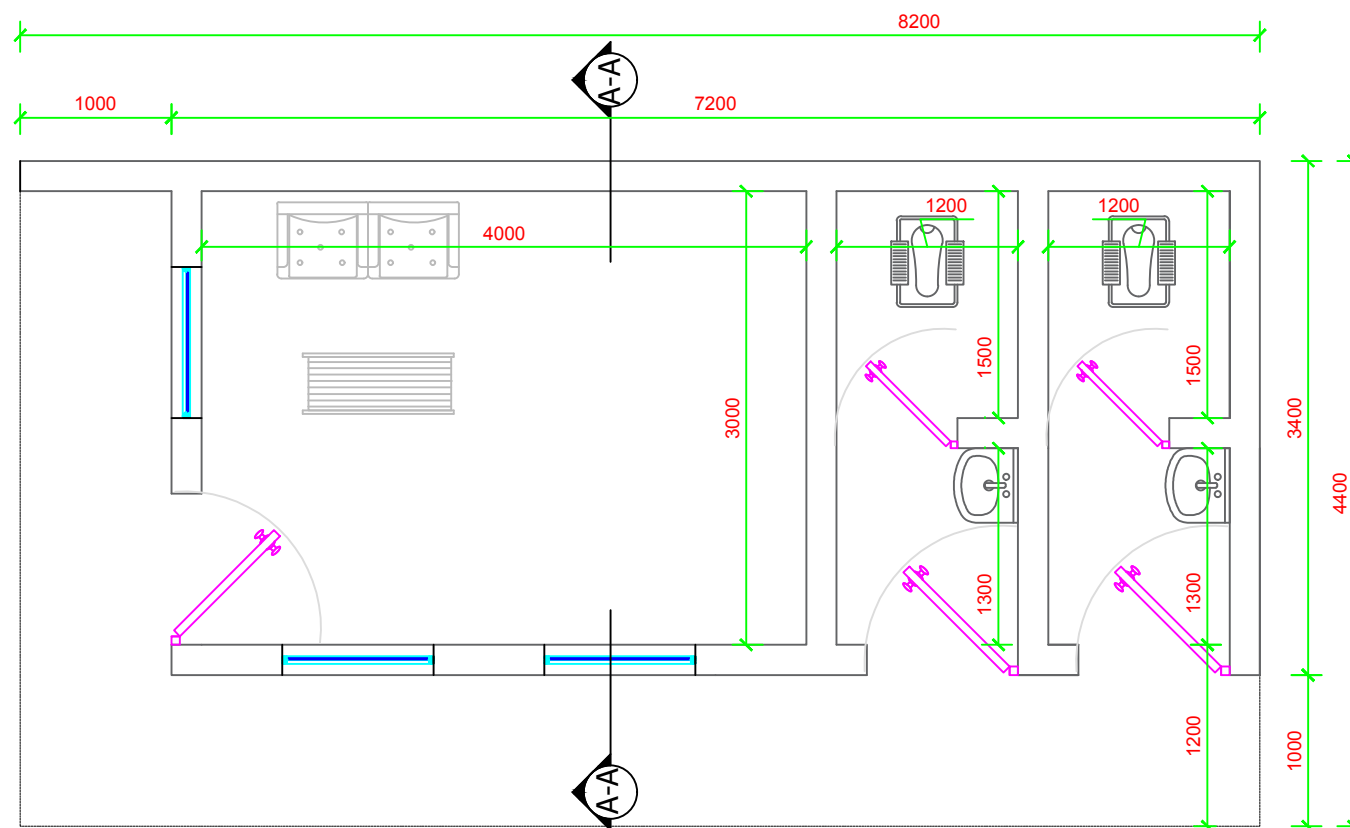
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A | GUARD ROOM PLAN
PR.B-A-01 | SCALE:

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GUARD ROOM PLAN

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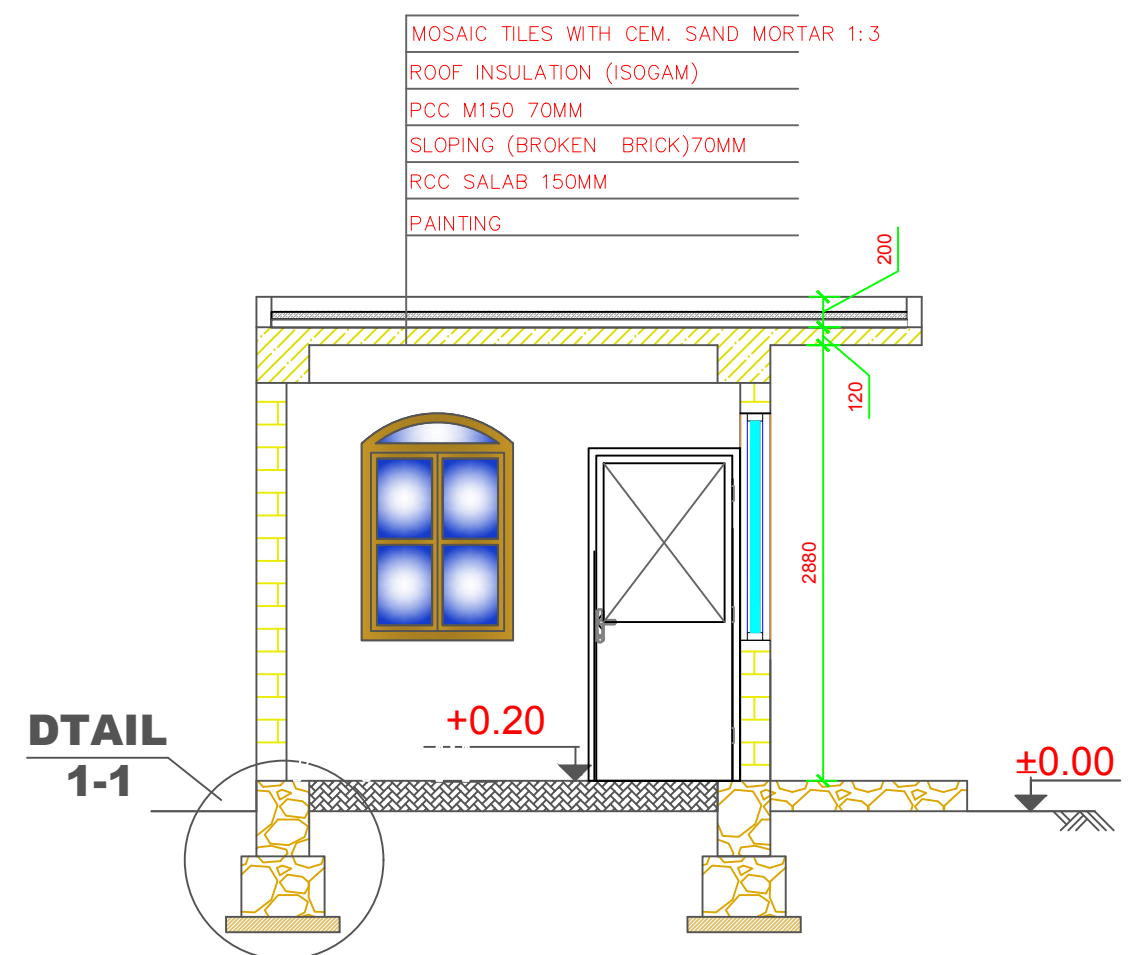
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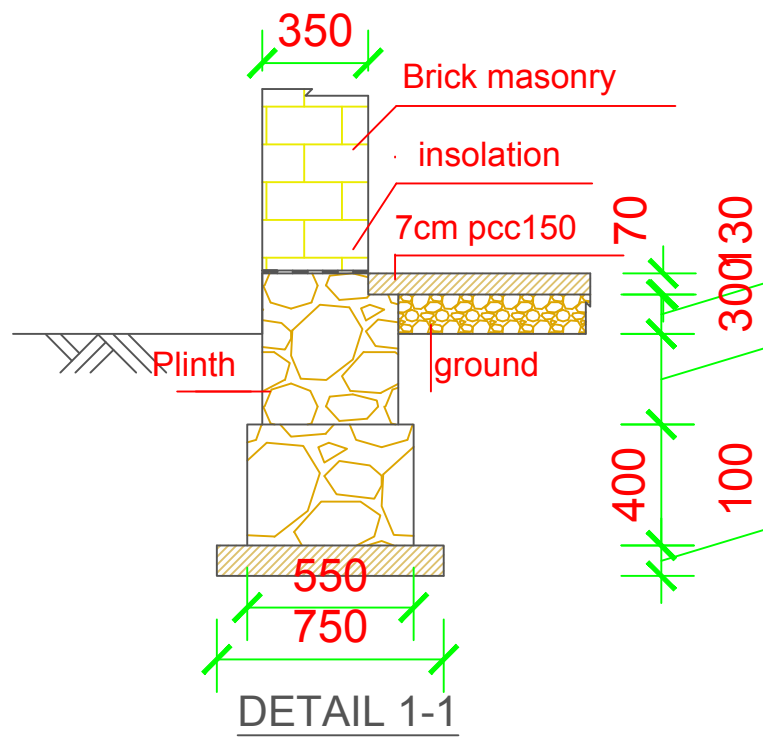
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Sec. A-A




A | SECTION A-A&DETAILS

PR.B-A-01 | SCALE:

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Help

Hilfe zur Selbsthilfe

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DRAWING TITLE
SECTION A-A & DETAILS

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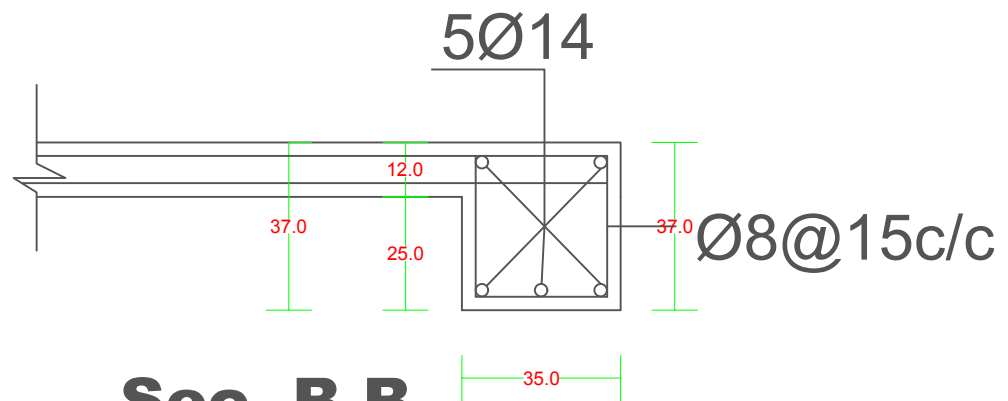
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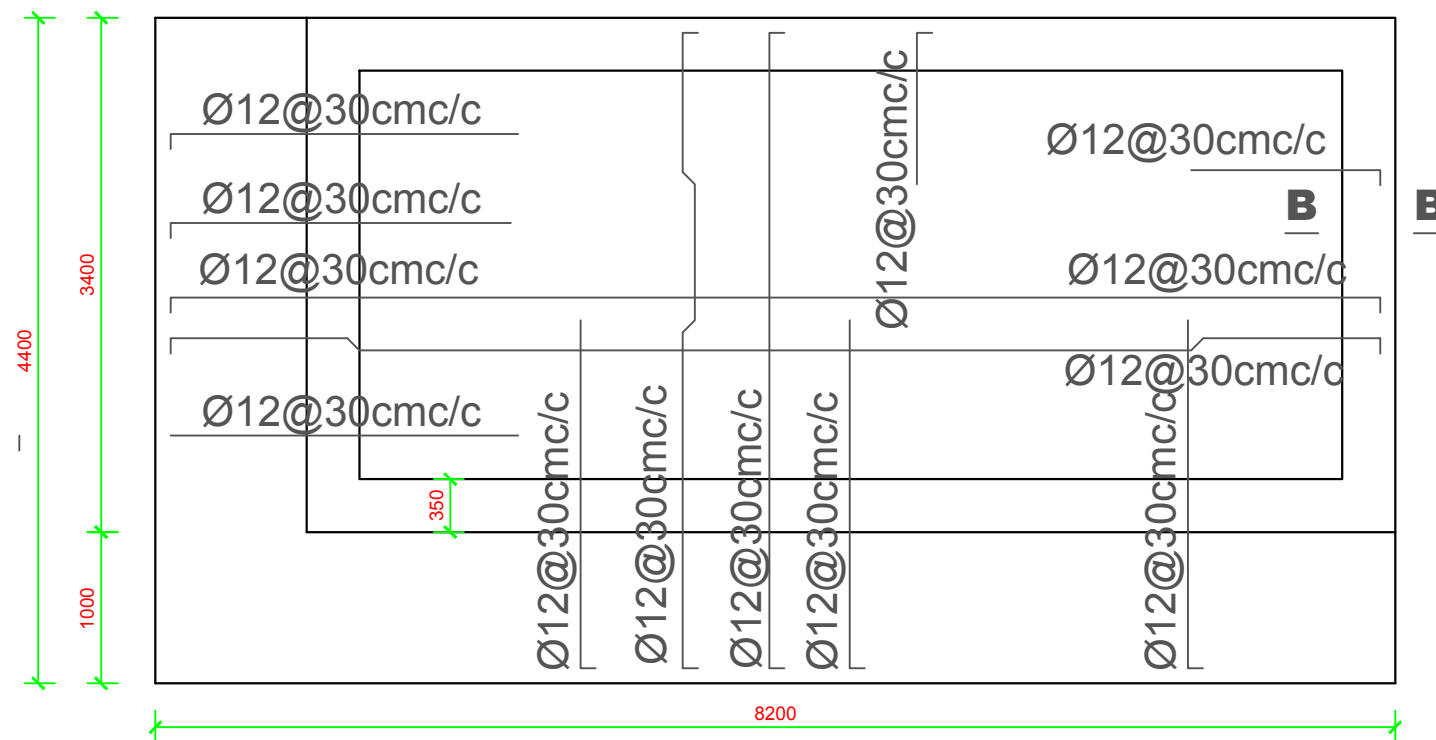
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EDESTA

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Sec. B-B
Sc. 1:20




A | Slab Reinforcement for Guard Room
PR.B-A-01 | SCALE:

LOGOS



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Help
Hilfe zur Selbsthilfe

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SLAB REINFORCEMENT FOR GUARD ROOM


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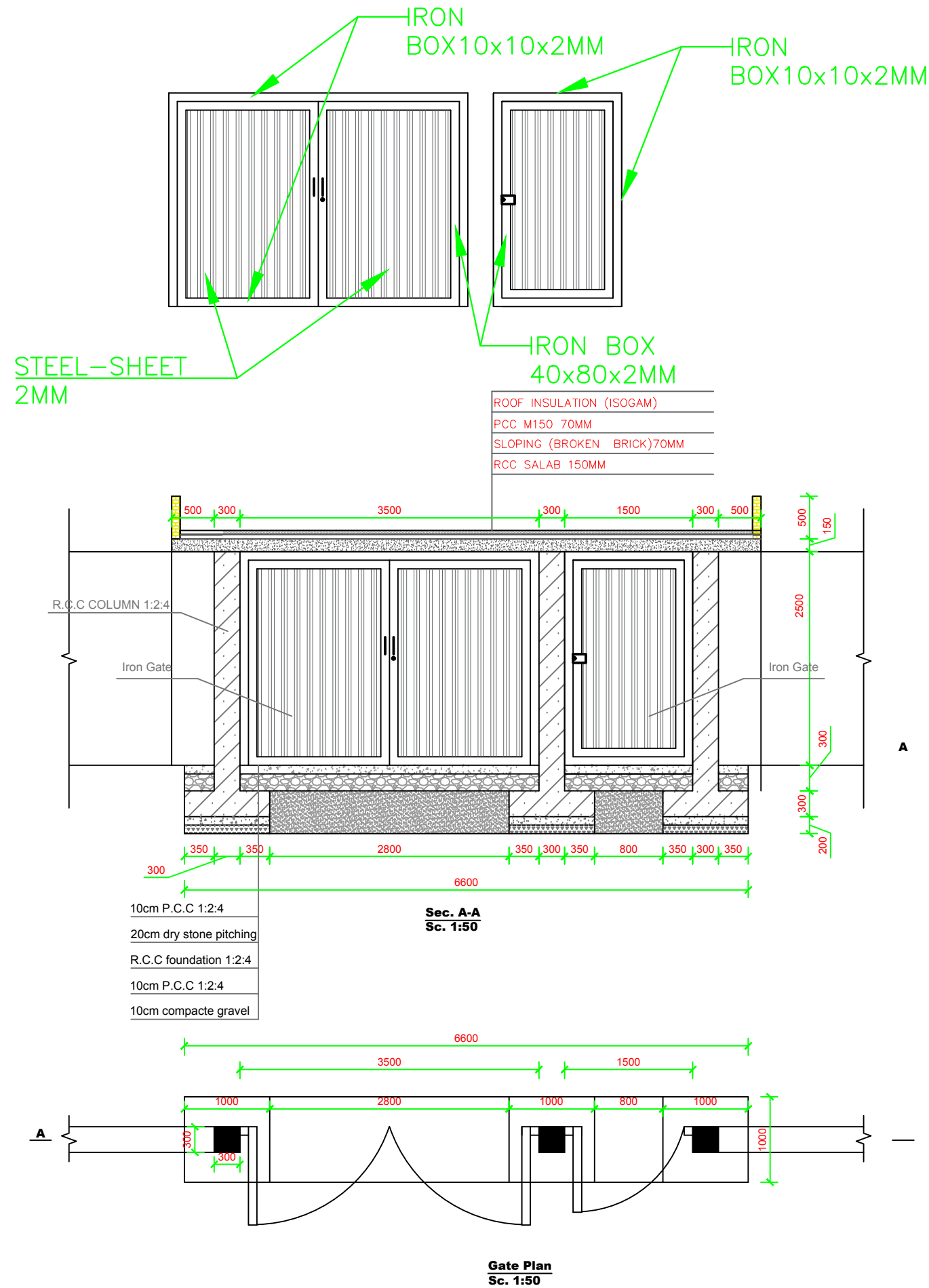
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DRAWING TITLE

GATE PLAN&SECTION

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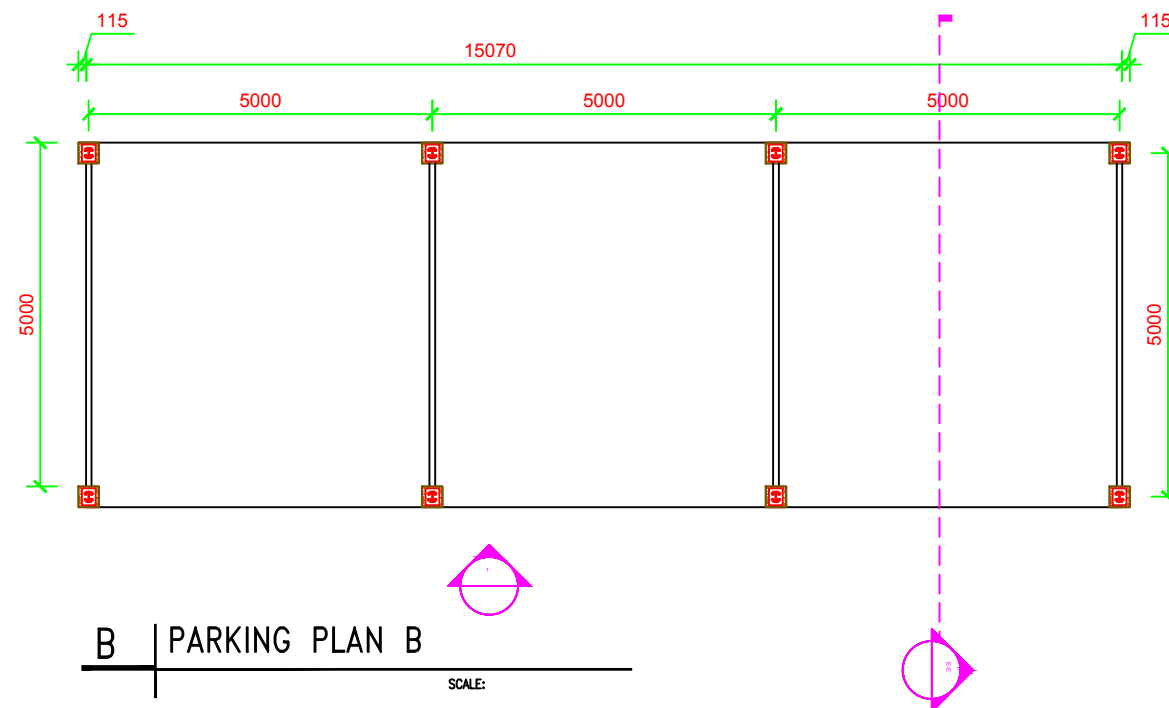
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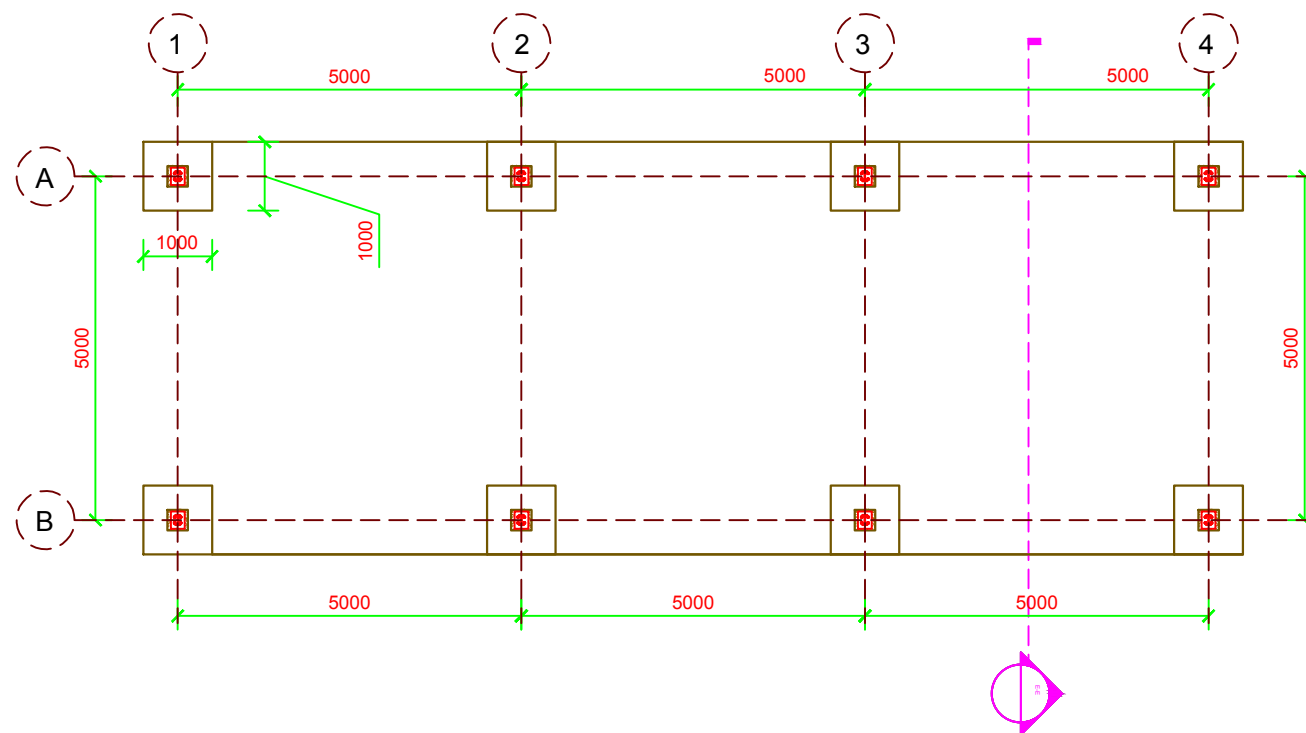


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B | PARKING PLAN B

SCALE:



B | FOUNDATION PLAN OF PARKING

SCALE:

LOGOS



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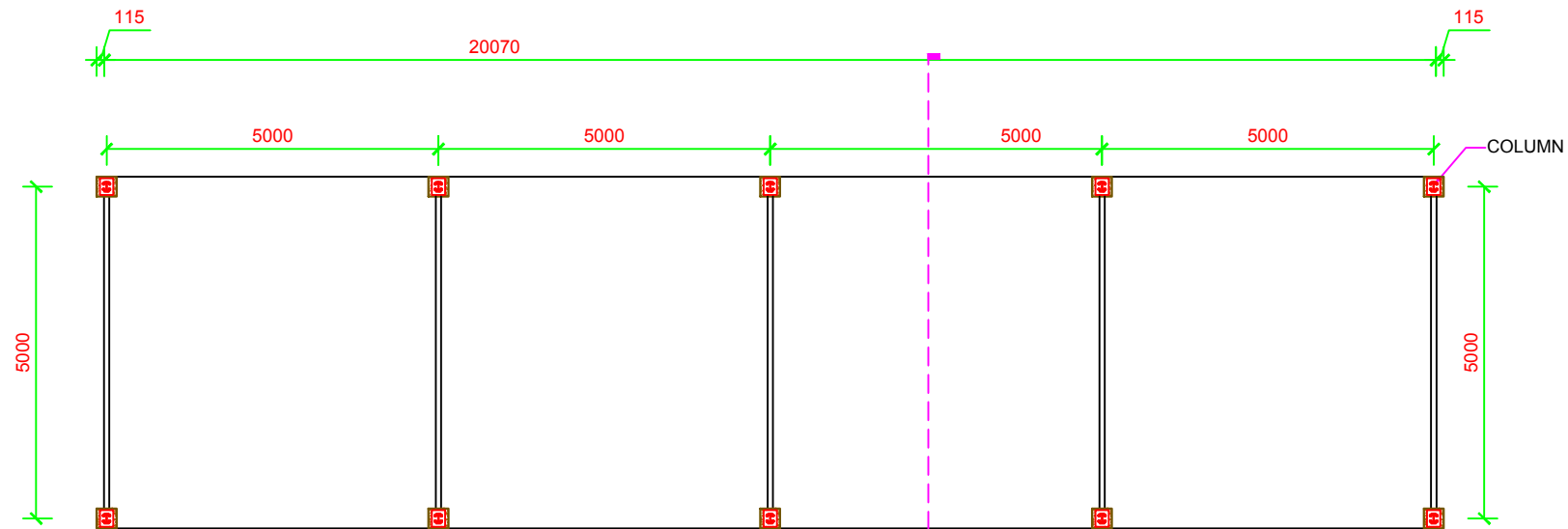
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	C-105	08

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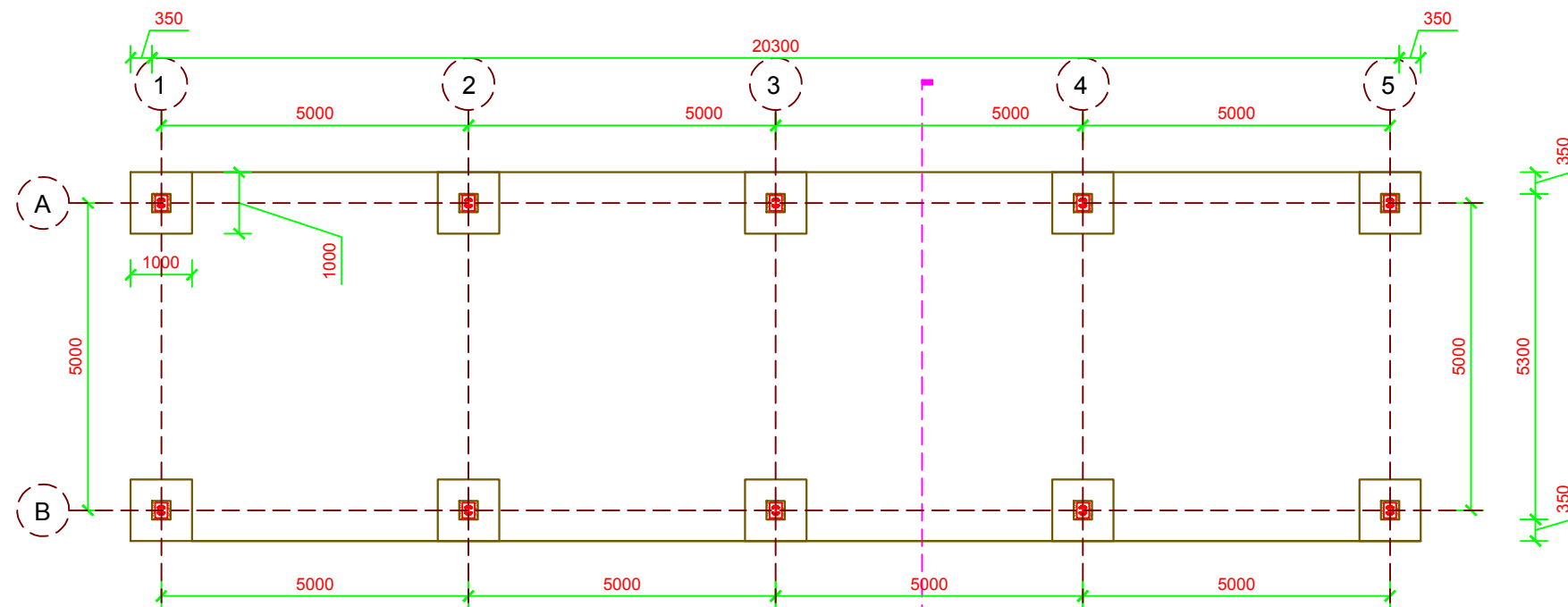
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A | PARKING PLAN A
SCALE:



A | FOUNDATION PLAN OF PARKING
SCALE:

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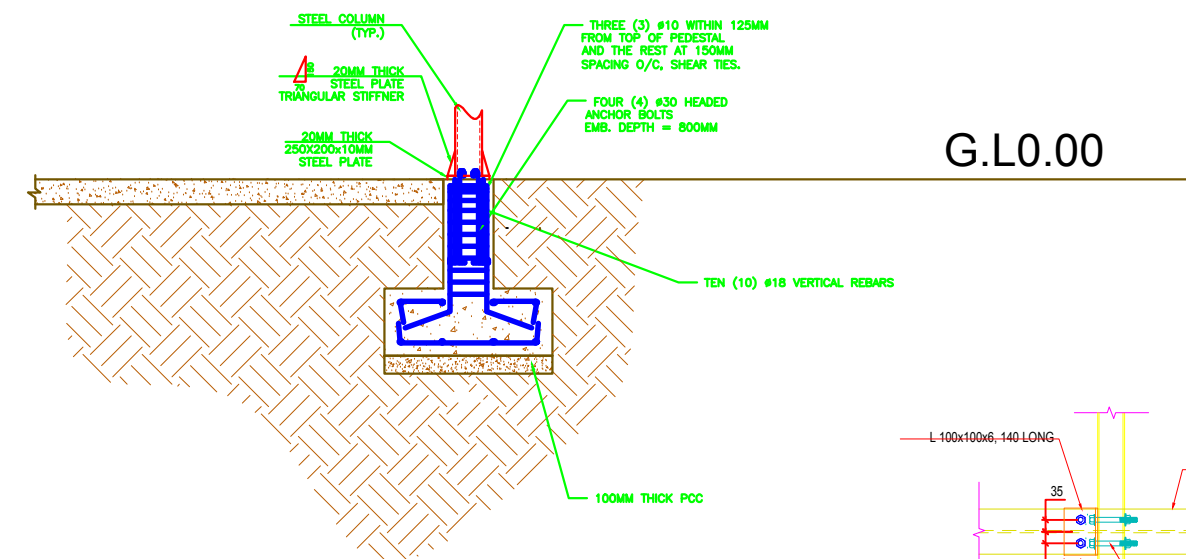
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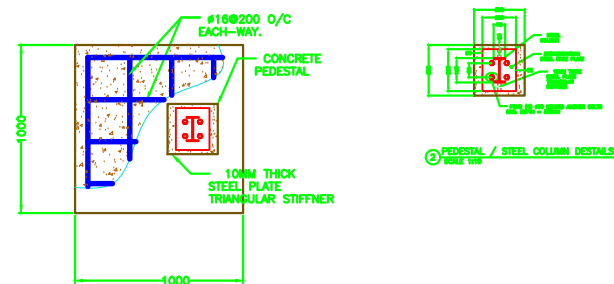
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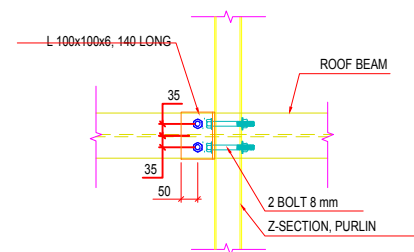
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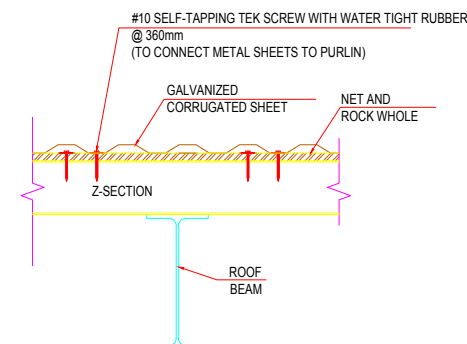
1 FOOTER SECTION
SCALE 1:25



1 FOOTER PLAN AND DETAILS
SCALE 1:25



2 PURLIN TO BEAM CONNECTION DETAILS
SCALE 1:20



LOGOS



KEY-PLAN

NOTES :

1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

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PREPARE DETAILED DESIGN DOCUMENTATION, WOMEN
TRADE CENTER,KOHSAN DISTRICT, ISLAM QALA TOWN
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C-107 10

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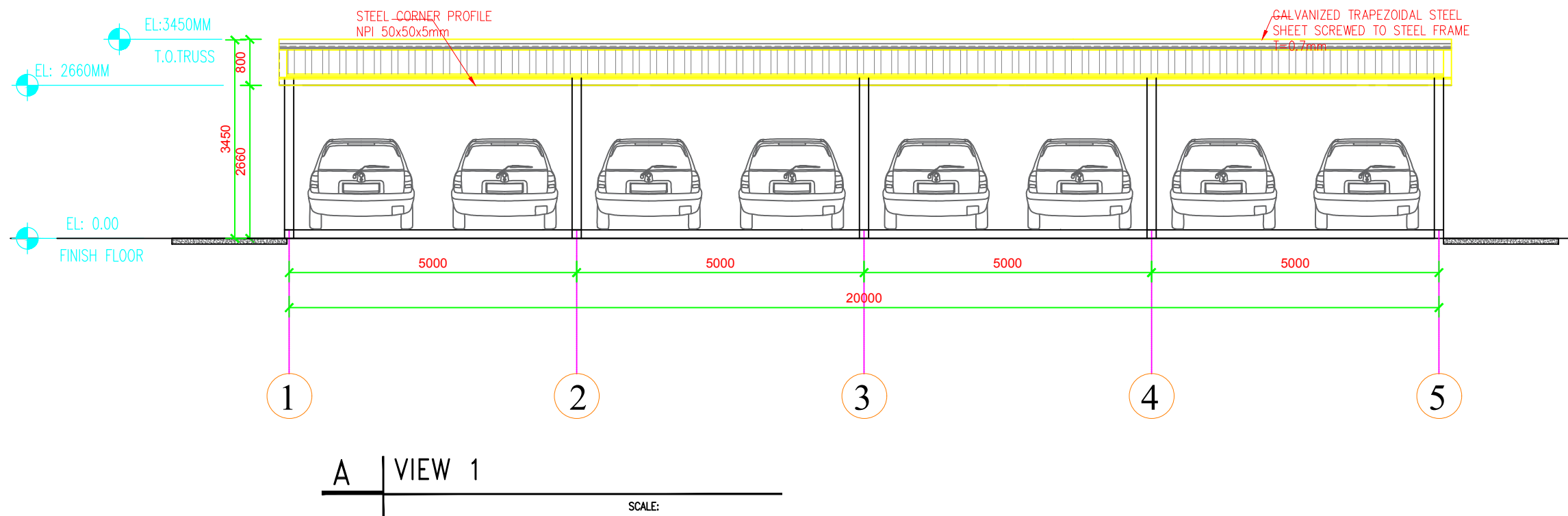
DESIGNED BY: ENG. MEHRAN ARIB CHECKED BY: ENG. MEHRAN ARIB

DRAWN BY: ENG. BESMULLAH FOR. APPROVED BY:

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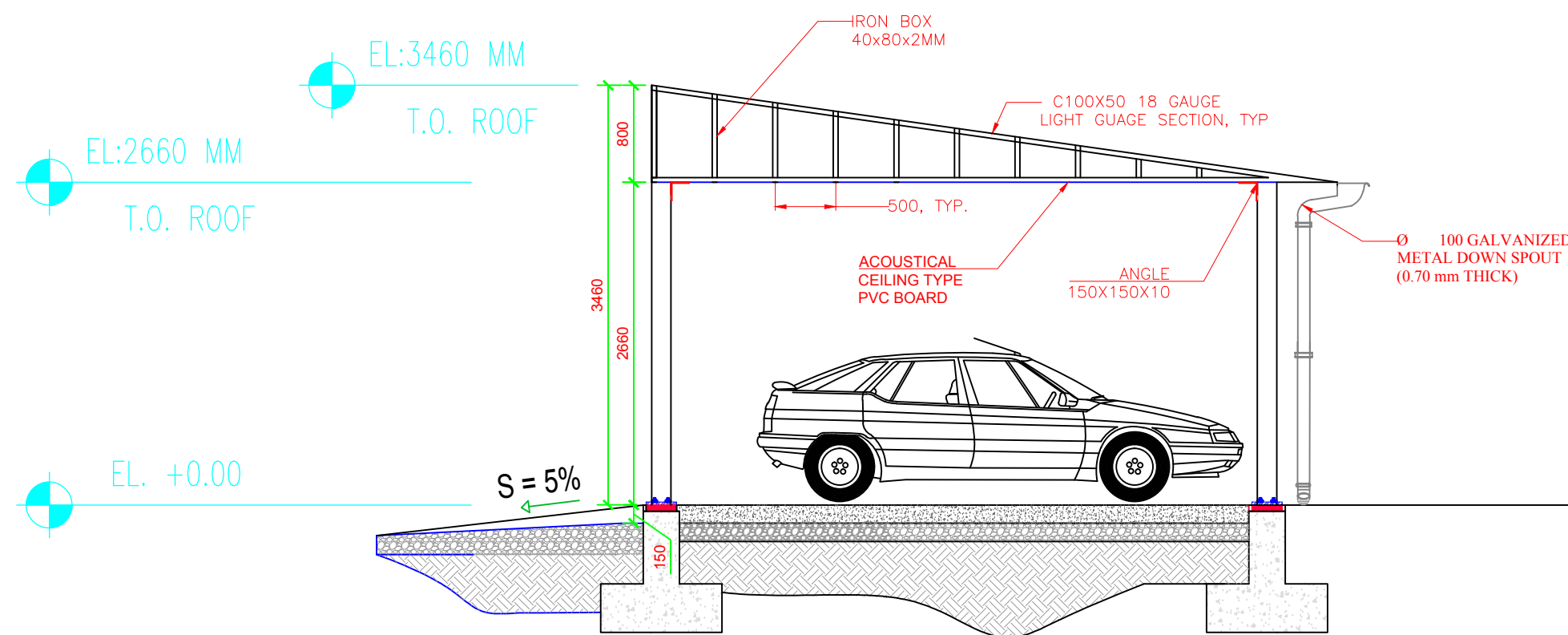
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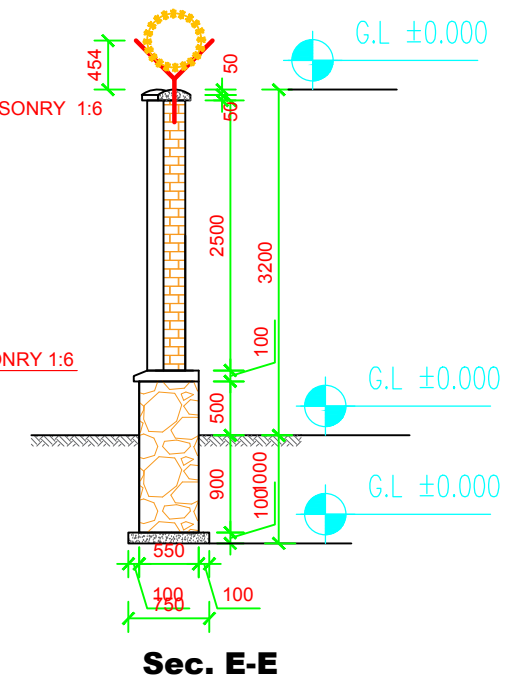
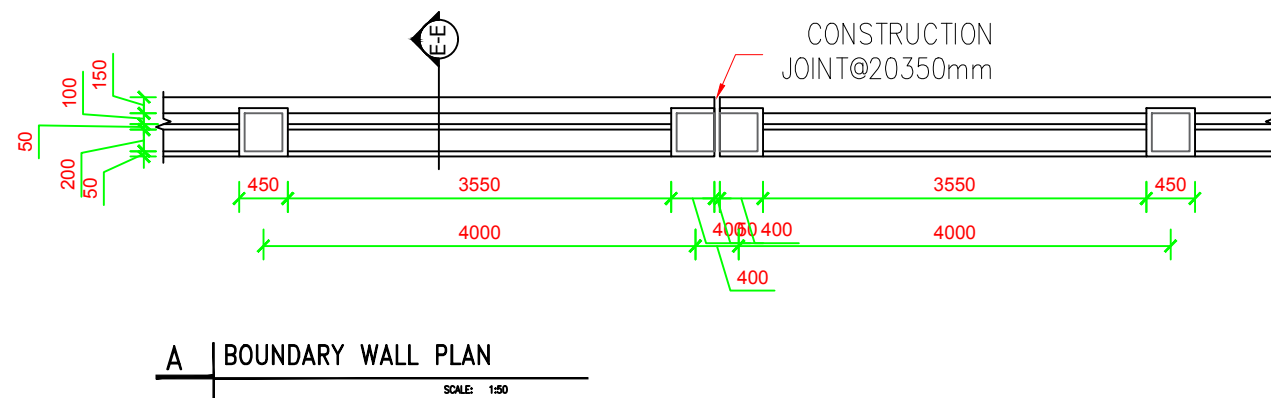
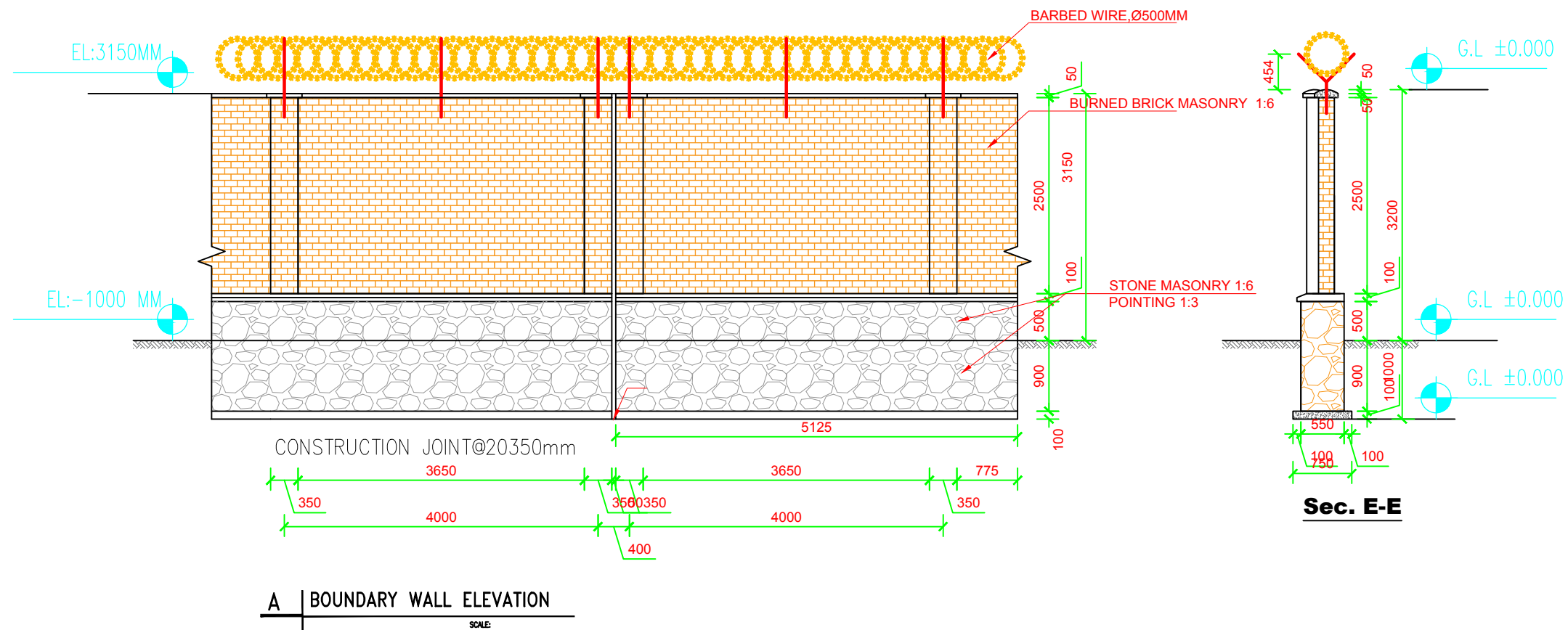
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SCALE	NTS	DATE	DEC.23.2020
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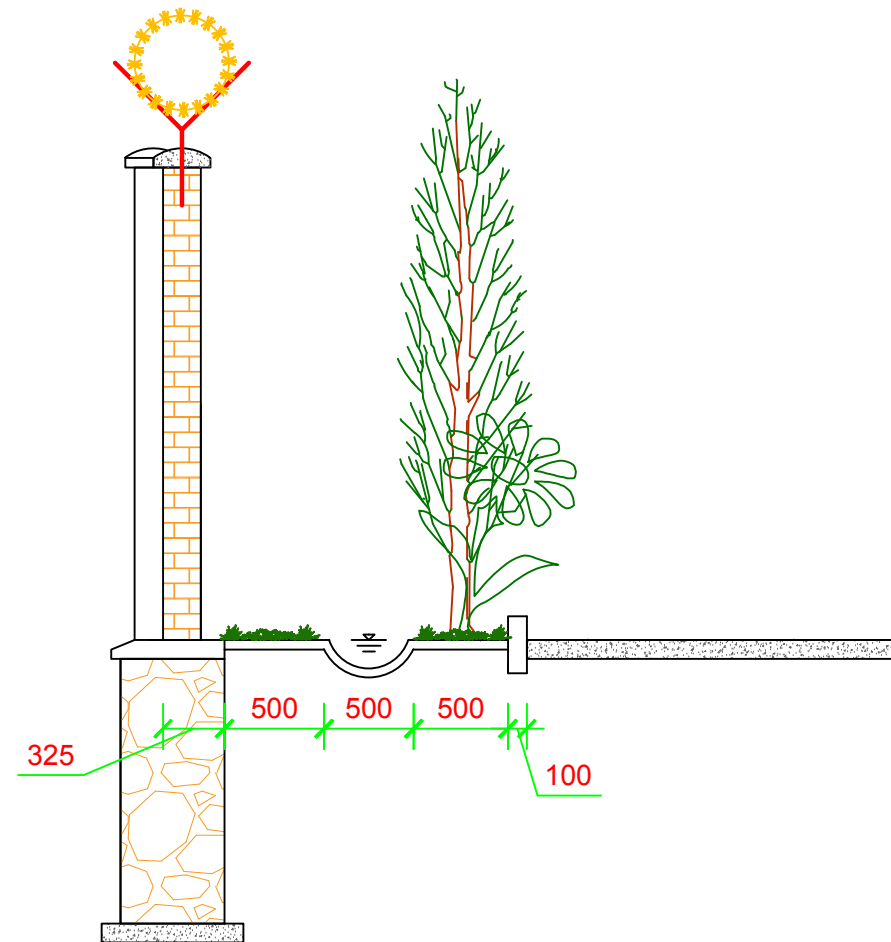
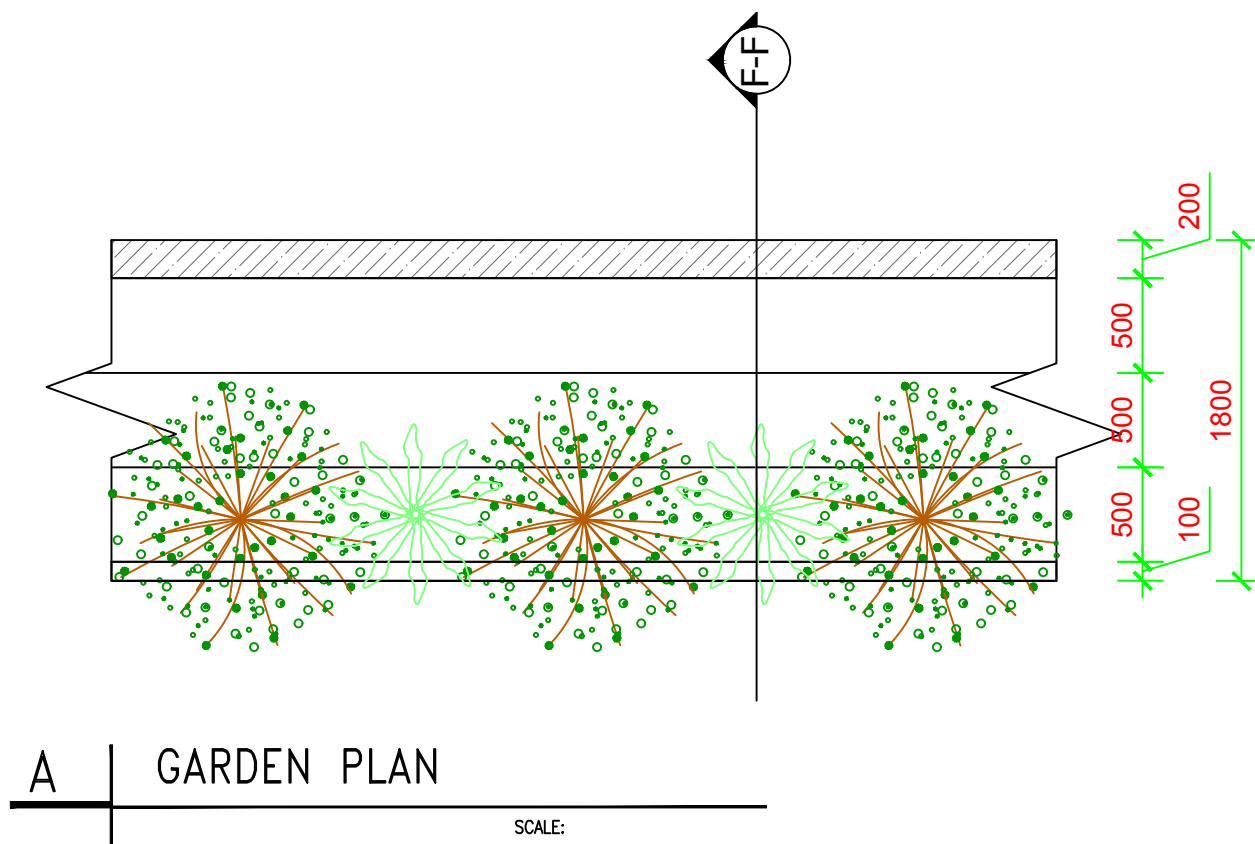
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DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY: ENG. MEHRAN ARIB
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Sec. E-E

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PROJECT ID	DRAWING NUMBER	PAGE NUMBER
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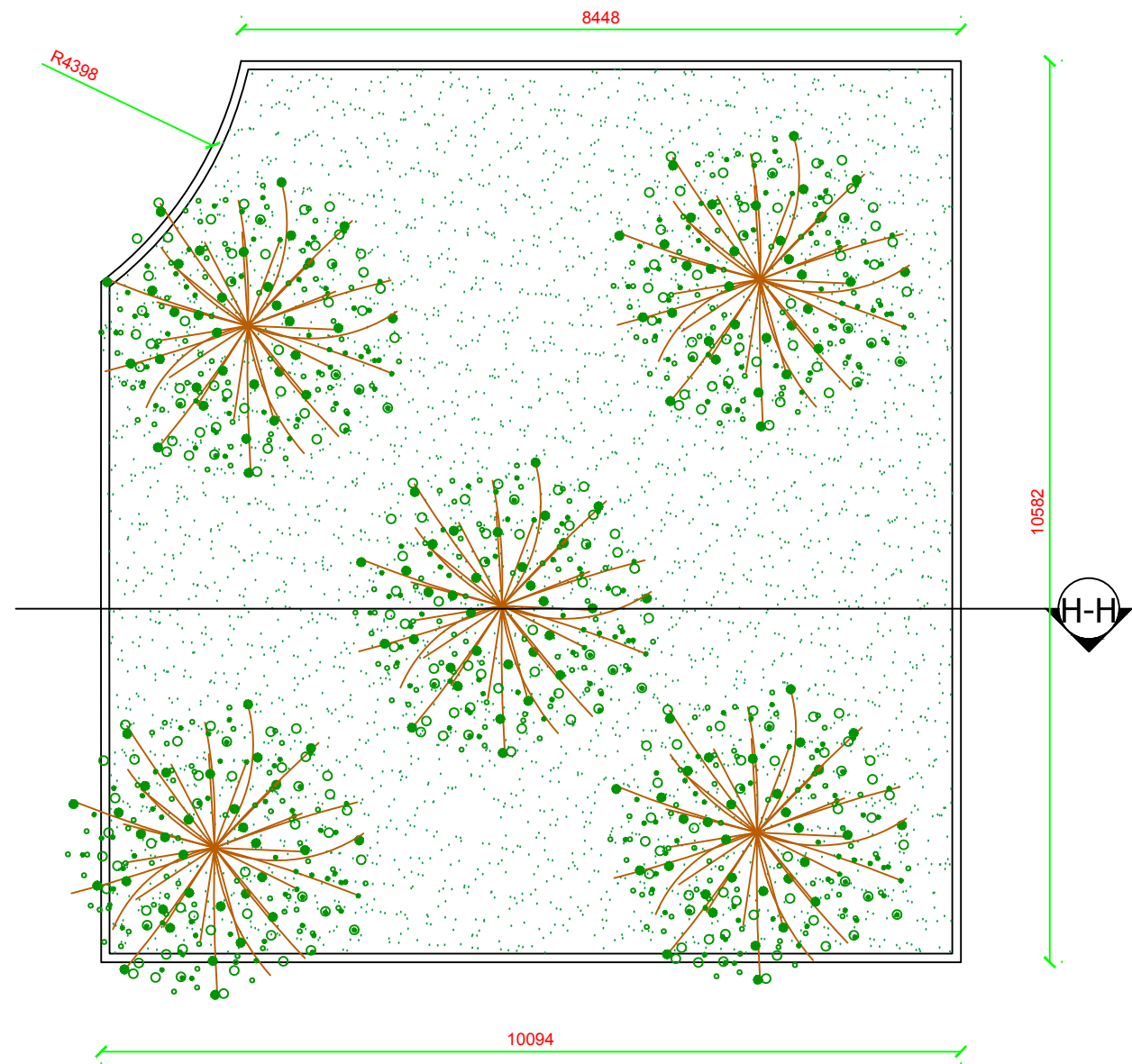
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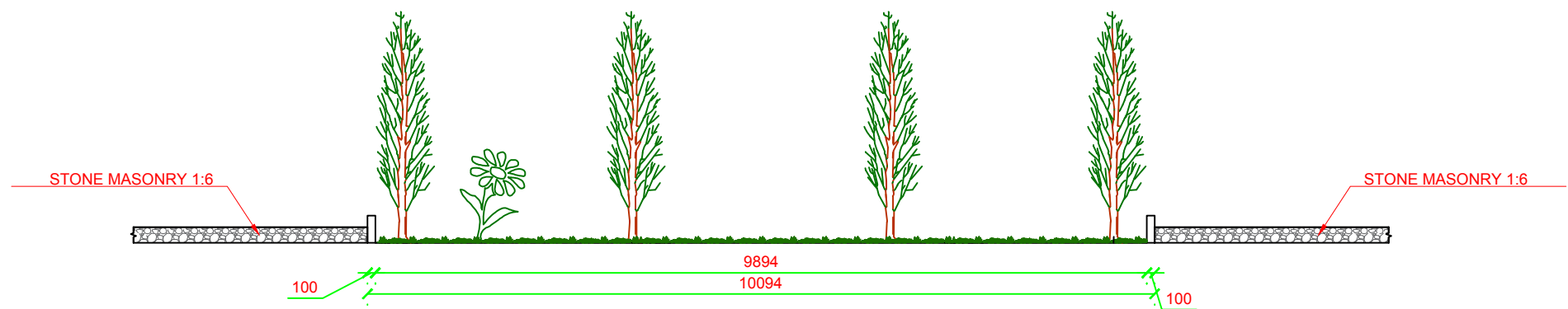
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A | GREEN RAEA PLAN
SCALE:



A | SECTION H-H
SCALE:

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Hilfe zur Selbsthilfe

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PROJECT ID	DRAWING NUMBER	PAGE NUMBER
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SCALE	NTS	DATE:	DEC.23.2020
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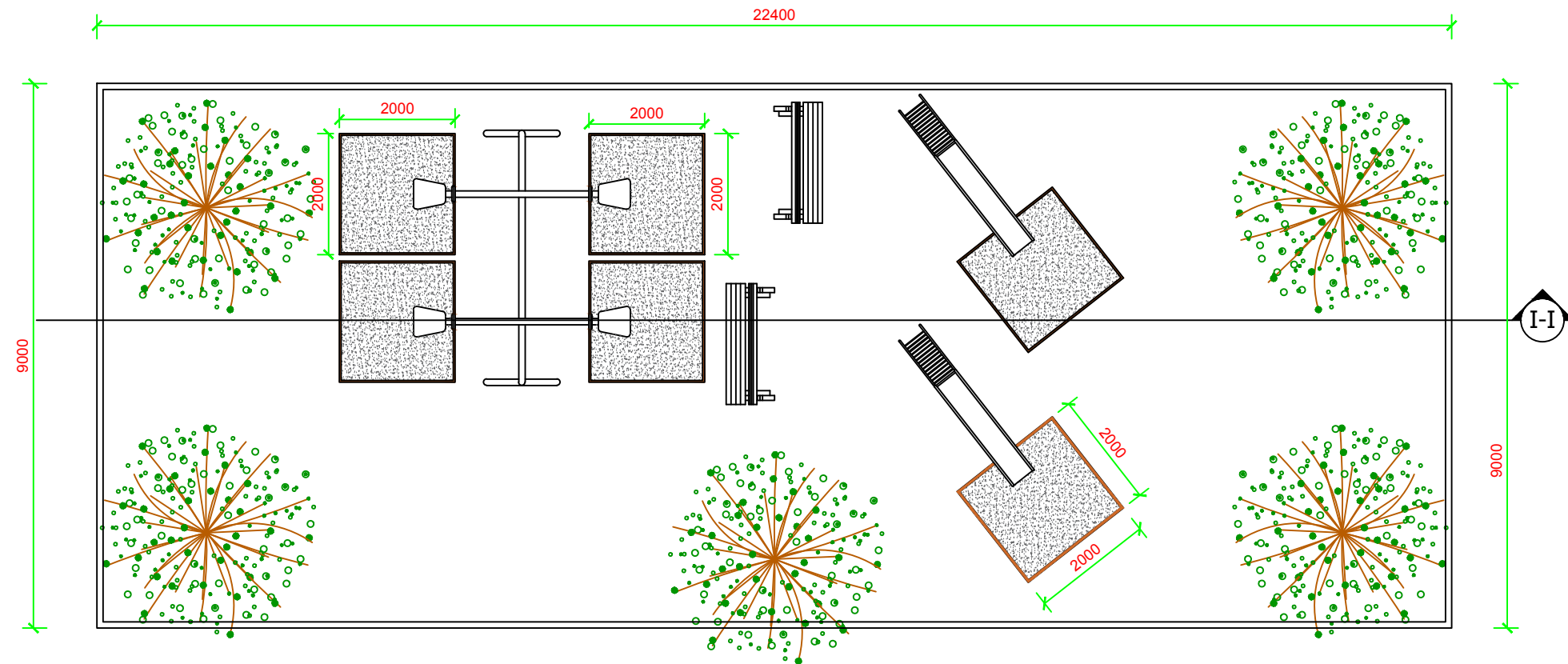
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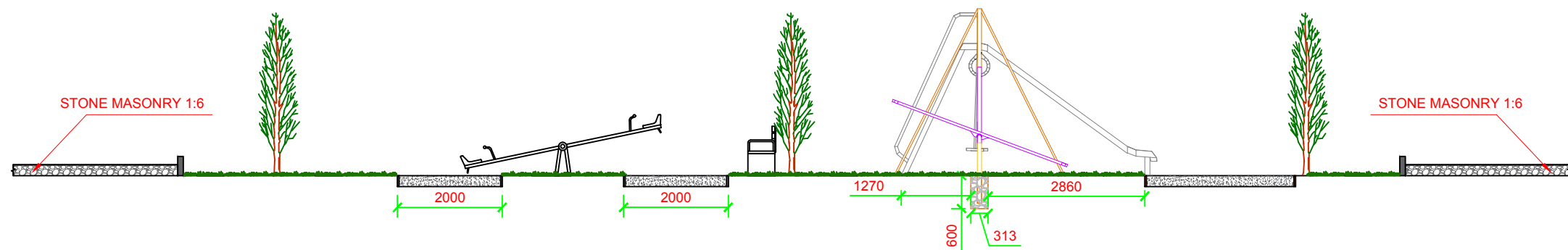
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A | PLAY GROUND PLAN

SCALE:



A | SECTION I-I

SCALE:

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KEY-PLAN

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PROJECT ID	DRAWING NUMBER	PAGE NUMBER
	C-113	16

SCALE	NTS	DATE:	DEC.23.2020
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