

STRUCTURAL DRAWINGS FOR PROPOSED FUEL RETAIL OUTLET, G+1 STORIED SALES BUILDING AND OTHER STRUCTURES .

LOCATION: DAMPHU THROMDE, TSIRANG

OWNER: STATE TRADING CORPORATION OF BHUTAN LTD. THIMPHU

PROJECT:

TITLE: FUEL RETAIL OUTLET
LOCATION: DAMPHU, TSIRANG
OWNER: STCBL
PLOT ID: L18U-03
CERTIFICATE NO: TSI-256-5
FLOORS: G+1 STRUCTURE



OWNER SIGNATURE

DESIGNED BY:

SUGAN PRADHAN
(GENERAL MANAGER, PETROLEUM DIVISION)
CIVIL ENGINEER
STCBL, THIMPHU

DRAWING TITLE:

STRUCTURAL DRAWING

DATE: APRIL 2021

SCALE: NTS

DRAWING

SHEET NO : ST/00

REVISION SUFFIX

NORTH

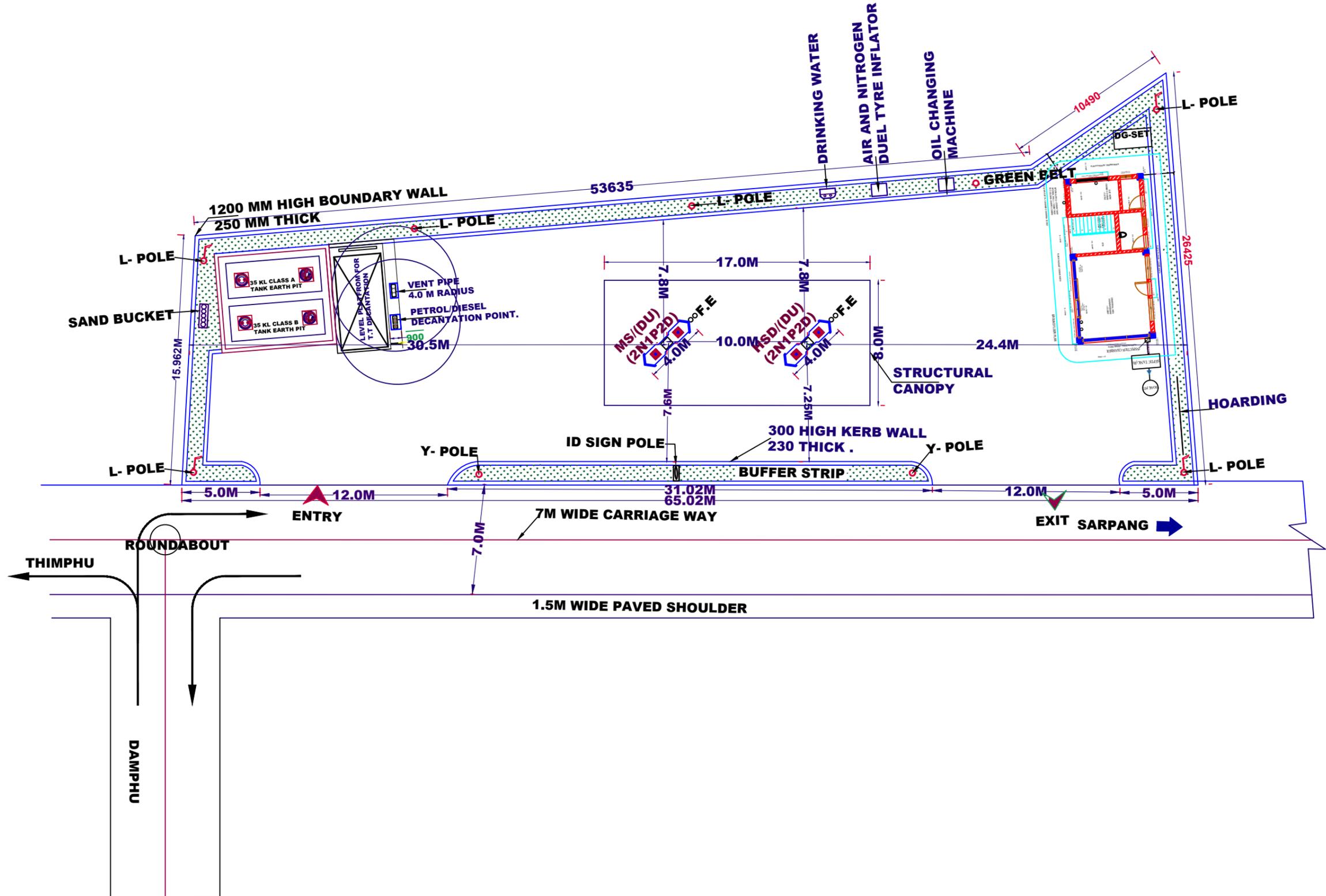


GENERAL NOTE:

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OWNER: STCBL
PLOT ID: L18U-03
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FLOORS: G+1 STRUCTURE



OWNER SIGNATURE

DESIGNED BY:
 SUGAN PRADHAN
 (GENERAL MANAGER, PETROLEUM DIVISION)
 CIVIL ENGINEER
 STCBL, THIMPHU

DRAWING TITLE: LAYOUT PLAN
STRUCTURAL DRAWING

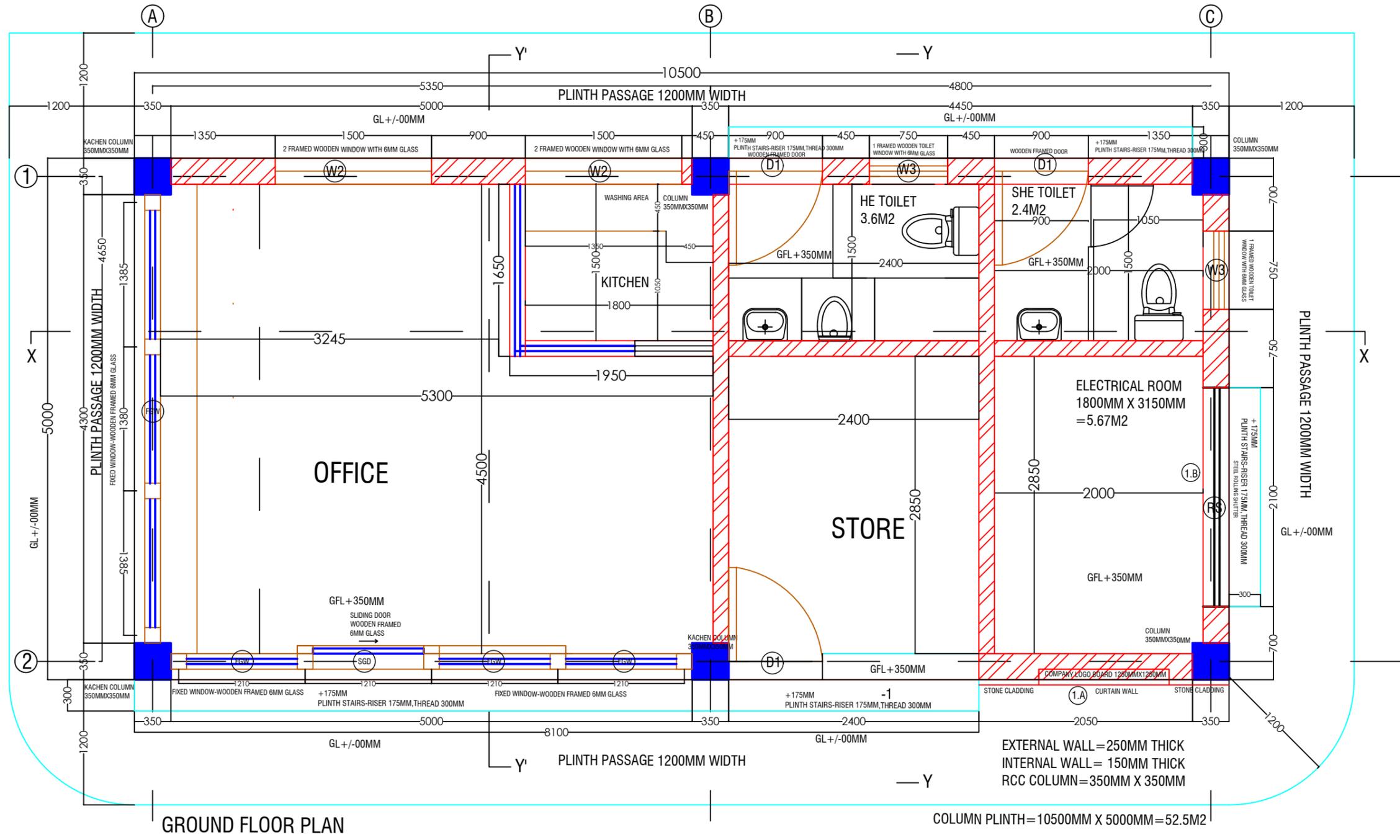
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DRAWING SHEET NO : ST/01

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LOCATION: DAMPHU, TSIRANG
OWNER: STCBL
PLOT ID: L18U-03
CERTIFICATE NO: TSI-256-5
FLOORS: G+1 STRUCTURE



OWNER SIGNATURE

DESIGNED BY:
SUGAN PRADHAN
(GENERAL MANAGER, PETROLEUM DIVISION)
CIVIL ENGINEER
STCBL, THIMPHU

DRAWING TITLE: GROUND FLOOR PLAN
STRUCTURAL DRAWING

DATE: APRIL 2021
SCALE: NTS
DRAWING SHEET NO : ST/02

REVISION SUFFIX	NORTH
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PROJECT:

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LOCATION: DAMPHU, TSIRANG
OWNER: STCBL
PLOT ID: L18U-03
CERTIFICATE NO: TSI-256-5
FLOORS: G+1 STRUCTURE



OWNER SIGNATURE

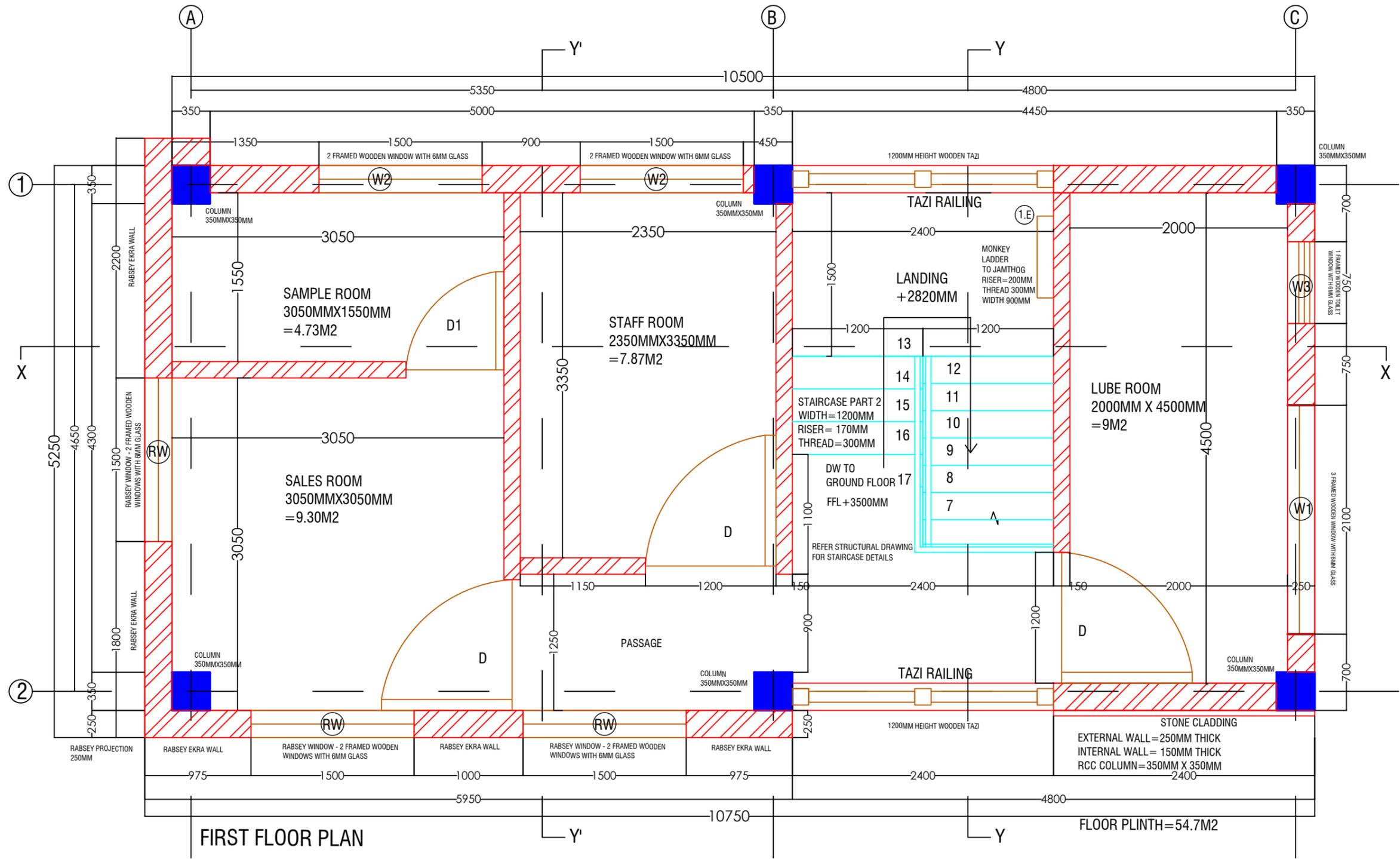
DESIGNED BY:
SUGAN PRADHAN
 (GENERAL MANAGER, PETROLEUM DIVISION)
 CIVIL ENGINEER
 STCBL, THIMPHU
DRAWING TITLE: FIRST FLOOR PLAN
STRUCTURAL DRAWING

DATE: APRIL 2021
SCALE: NTS
DRAWING SHEET NO : ST/03

REVISION SUFFIX	NORTH
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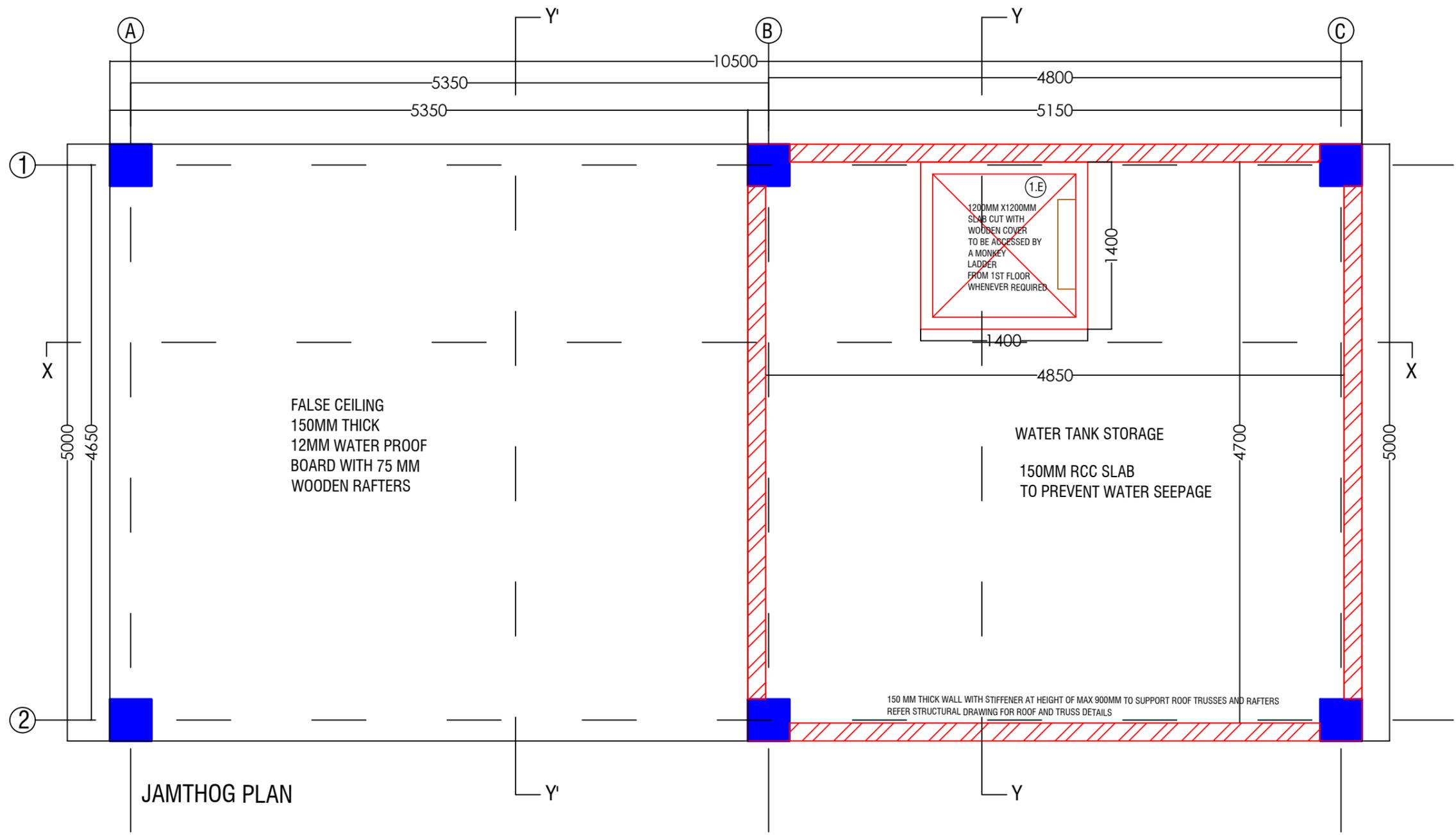


FIRST FLOOR PLAN

FLOOR PLINTH=54.7M2

PROJECT:

TITLE: FUEL RETAIL OUTLET
LOCATION: DAMPHU, TSIRANG
OWNER: STCBL
PLOT ID: L18U-03
CERTIFICATE NO: TSI-256-5
FLOORS: G+1 STRUCTURE



OWNER SIGNATURE

DESIGNED BY:
SUGAN PRADHAN
 (GENERAL MANAGER, PETROLEUM DIVISION)
 CIVIL ENGINEER
 STCBL, THIMPHU
DRAWING TITLE: ROOF PLAN
STRUCTURAL DRAWING

DATE: APRIL 2021
SCALE: NTS
DRAWING SHEET NO : ST/04

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OWNER: STCBL
PLOT ID: L18U-03
CERTIFICATE NO: TSI-256-5
FLOORS: G+1 STRUCTURE



OWNER SIGNATURE

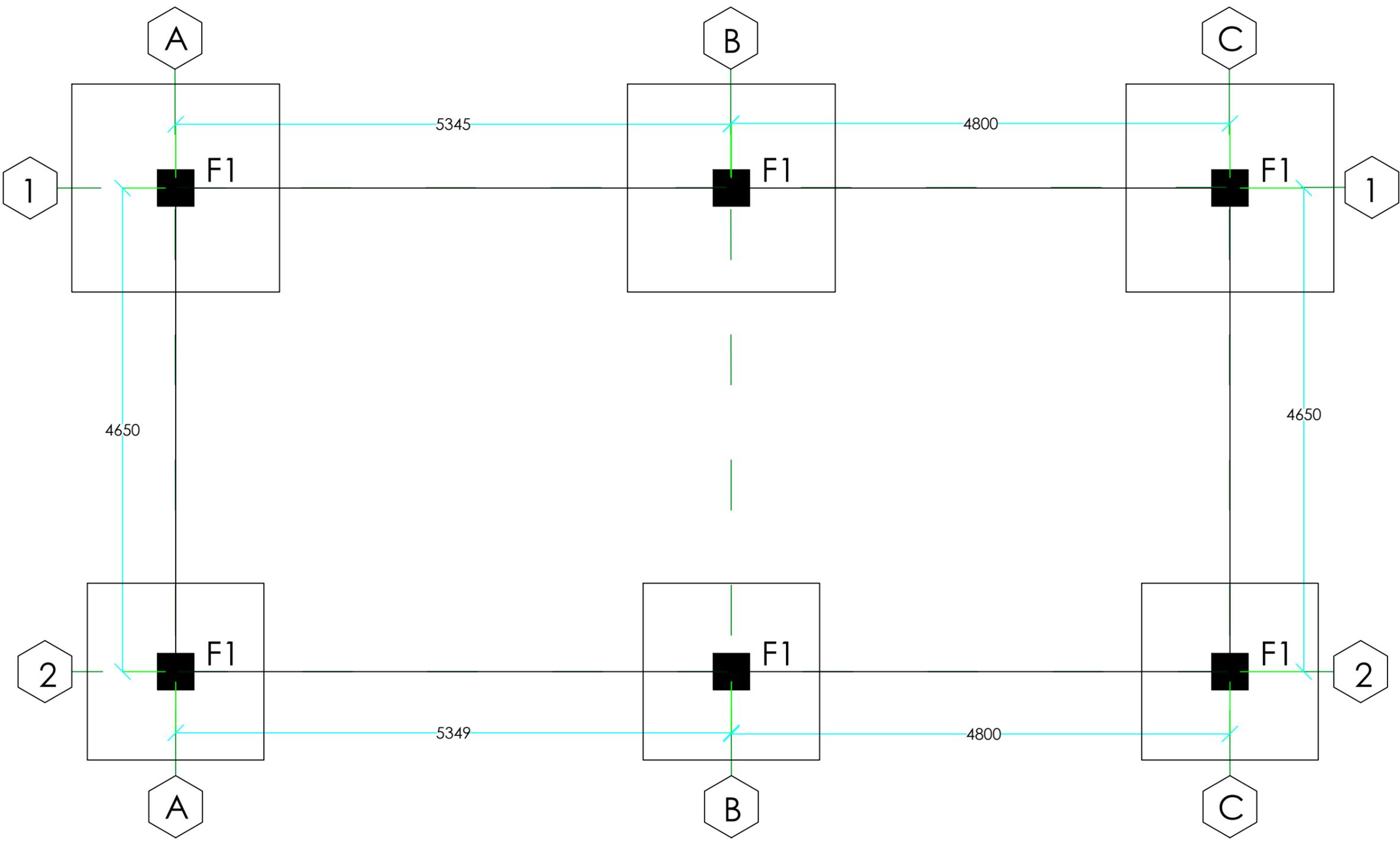
DESIGNED BY:
SUGAN PRADHAN
 (GENERAL MANAGER, PETROLEUM DIVISION)
 CIVIL ENGINEER
 STCBL, THIMPHU
DRAWING TITLE: FOOTING LAYOUT
STRUCTURAL DRAWING

DATE: APRIL 2021
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DRAWING SHEET NO : ST/05

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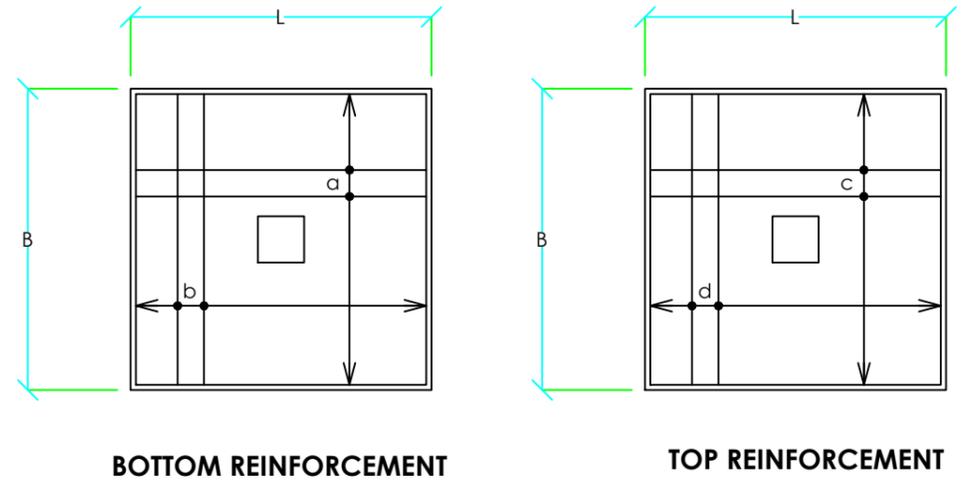
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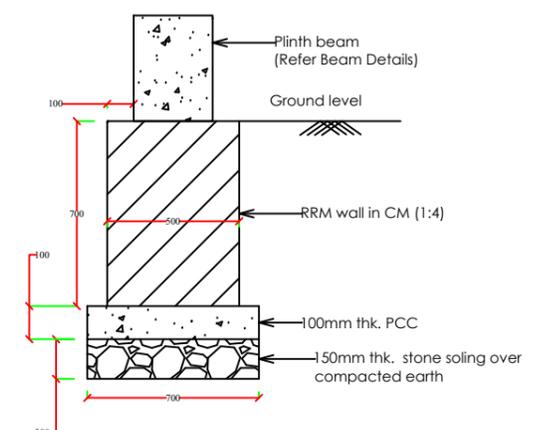
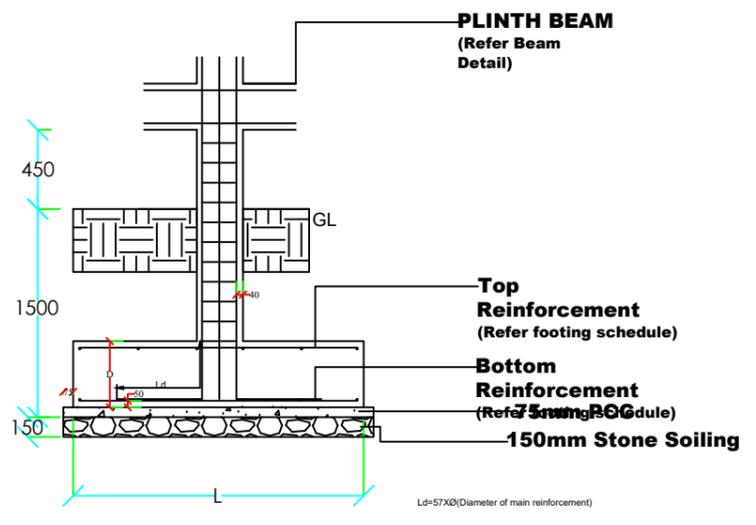
PROJECT:

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LOCATION: DAMPHU, TSIRANG
OWNER: STCBL
PLOT ID: L18U-03
CERTIFICATE NO: TSI-256-5
FLOORS: G+1 STRUCTURE

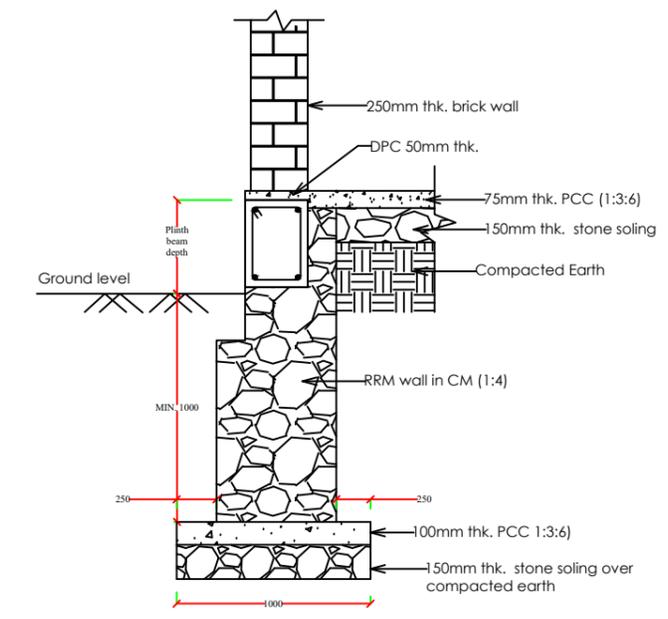


FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE AND DEPTH			REINFORCEMENT			
	LENGTH	WIDTH	DEPTH	a	b	c	d
F1	2000	2000	350	12Ø @ 100 c/c			



FOUNDATION SECTION DETAIL BELOW PLINTH BEAM (INTERNAL WALL)



FOUNDATION SECTION DETAIL BELOW PLINTH BEAM (EXTERNAL WALL)

OWNER SIGNATURE

DESIGNED BY:
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 CIVIL ENGINEER
 STCBL, THIMPHU

DRAWING TITLE: FOOTING DETAILS

STRUCTURAL DRAWING

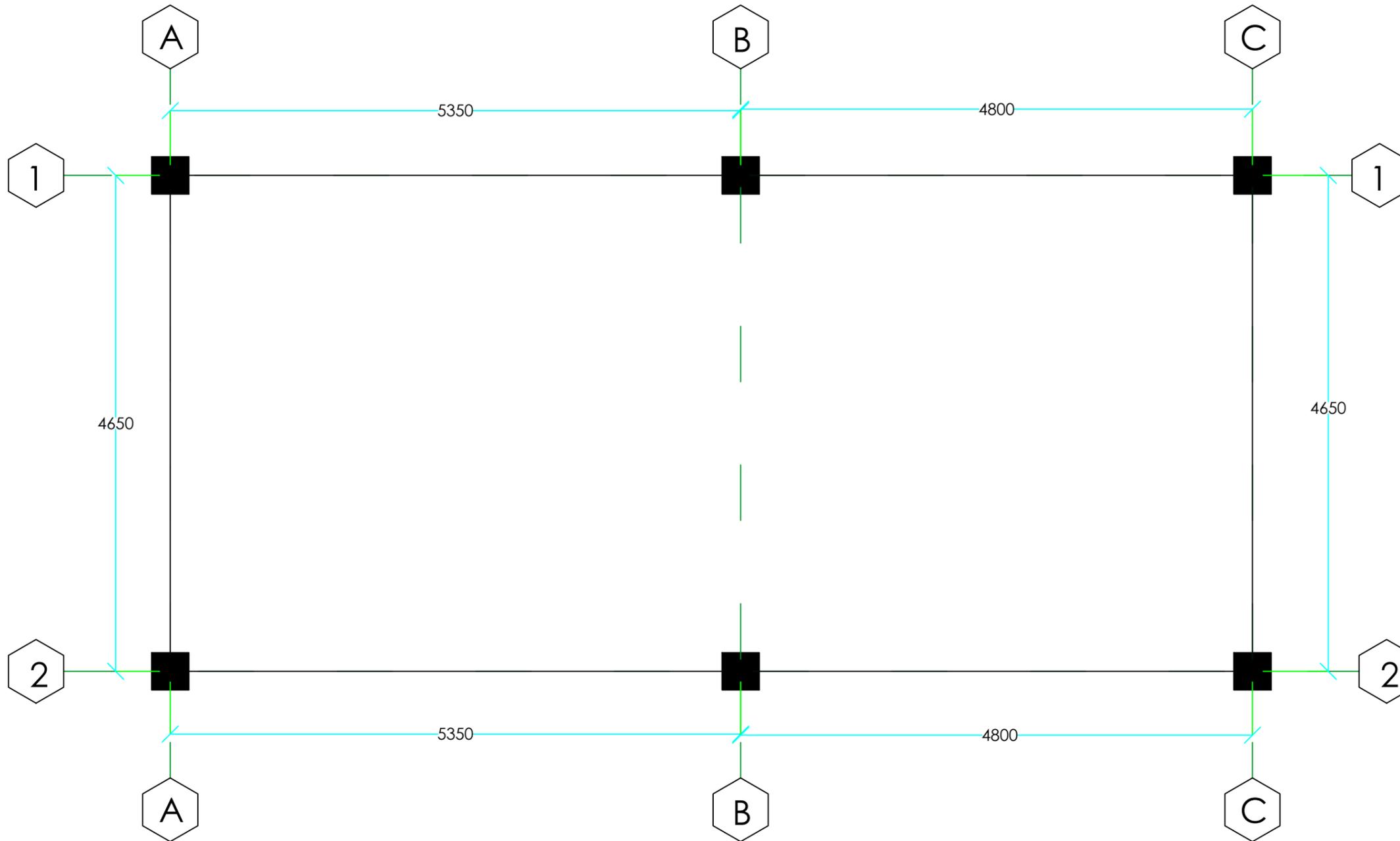
DATE: APRIL 2021

SCALE: NTS

DRAWING SHEET NO : ST/06

REVISION SUFFIX	NORTH
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OWNER: STCBL
PLOT ID: L18U-03
CERTIFICATE NO: TSI-256-5
FLOORS: G+1 STRUCTURE



OWNER SIGNATURE

DESIGNED BY:
SUGAN PRADHAN
 (GENERAL MANAGER, PETROLEUM DIVISION)
 CIVIL ENGINEER
 STCBL, THIMPHU
DRAWING TITLE: COLUMN LAYOUT

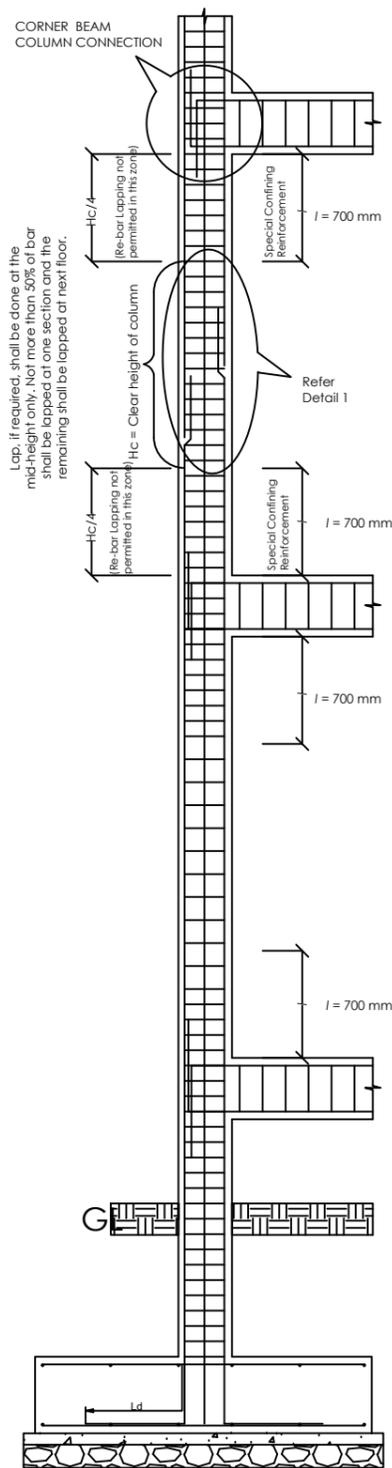
STRUCTURAL DRAWING

DATE: APRIL 2021
SCALE: NTS
DRAWING SHEET NO : ST/07

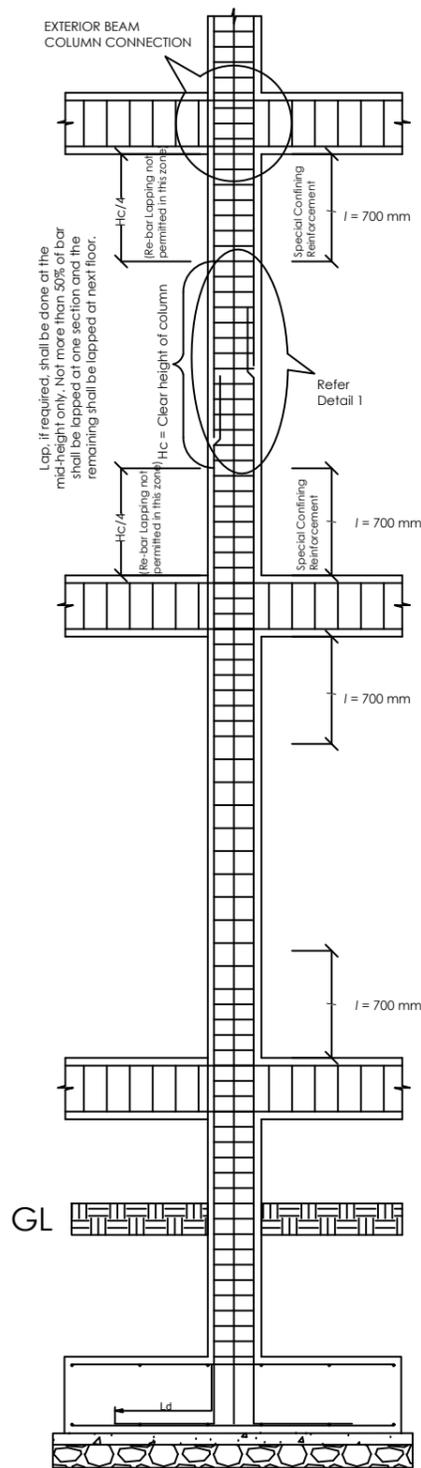
REVISION SUFFIX	NORTH
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GENERAL NOTE:

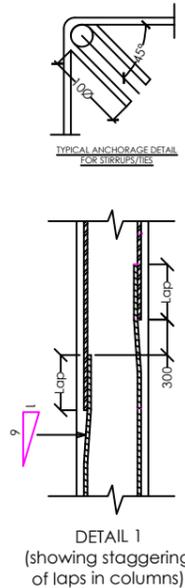
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TYPICAL SECTION EXTERIOR (showing typical arrangement of rebar and ties in columns)



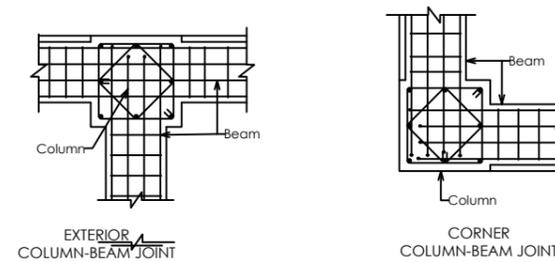
TYPICAL SECTION INTERIOR (showing typical arrangement of rebar and ties in columns)



Bar Diameter	Splice Length (mm)
10Ø	485
12Ø	583
16Ø	777
20Ø	971
25Ø	1214

COLUMN DETAILS

Column Mark	Column Mark (mm)	MAIN REINFORCEMENT		SHEAR REINFORCEMENT	
		Foundation to Full Height	SHAPE	SHAPE	SPACING
C2	350 x 350	 • 8-20Ø		Within height l ST1=8Ø @ 100 c/c	Remaining Height ST2=8Ø @ 150 c/c



TYPICAL COLUMN-BEAM JOINT DETAILS

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FLOORS: G+1 STRUCTURE



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 (GENERAL MANAGER, PETROLEUM DIVISION)
 CIVIL ENGINEER
 STCBL, THIMPHU

DRAWING TITLE: COLUMN DETAILS

STRUCTURAL DRAWING

DATE: APRIL 2021

SCALE: NTS

DRAWING

SHEET NO : ST/08

REVISION SUFFIX

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NORTH

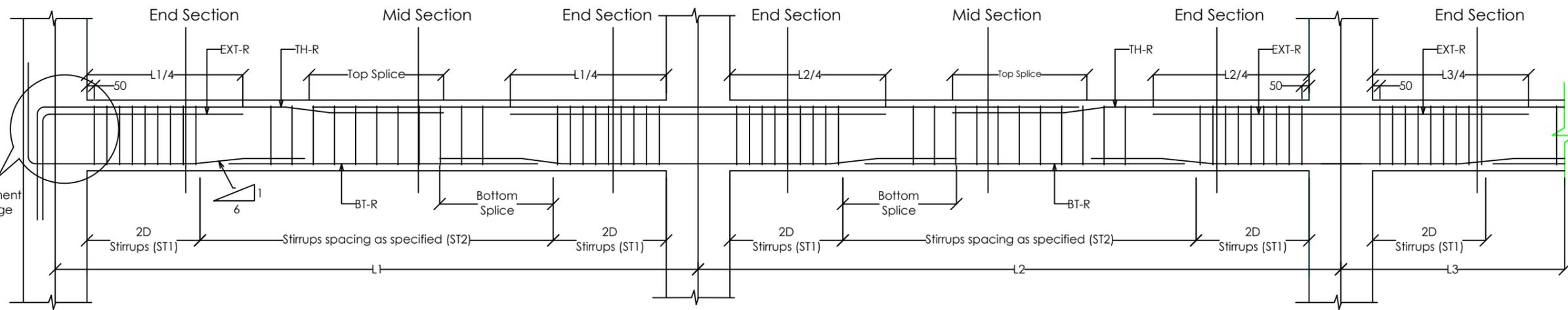


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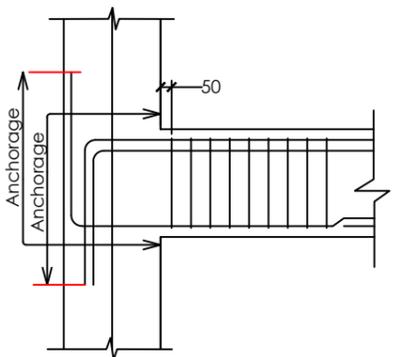
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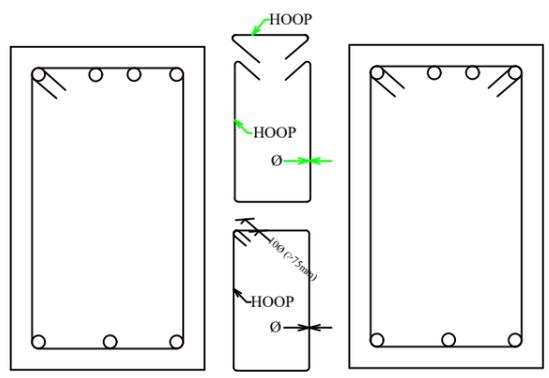
LEGEND:
 EXT-R.....Extra re-bars
 TH-R.....Through re-bars
 BT-R.....Bottom re-bars

TYPICAL ARRANGEMENT OF RE-BARS AND SPLICE DETAILS IN BEAMS



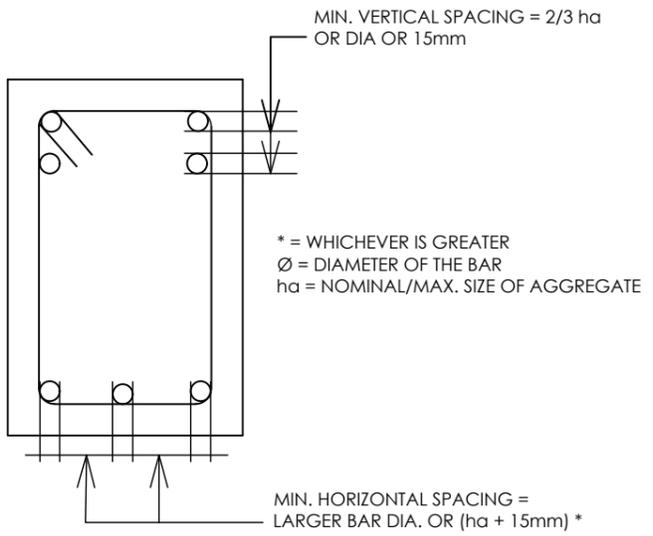
Reinforcement Anchorage Details

Bar Diameter	Minimum Length (mm)	
	Ld	Anchorage Length
12Ø	684	703
16Ø	912	937
20Ø	1140	1171
25Ø	1425	1464



STIRRUP/HOOP DETAILS

- NOTE:**
- At junction of two different beams provide EXT-R of higher side from either of the beams
 - Lap splice for tension or bottom reinforcement shall not be provided
 - within a joint
 - within a distance of 2D from the joint face or
 - within a quarter length of the member
 - The splicing of the compression or top reinforcement shall be near or at the mid-span of the member.
 - Not more than 50% of the re-bars shall be spliced at a section.
 - The lap length shall not be less than development length in tension.
 - Where rebar are lapped, stirrups must be provided to the full lap length at a spacing same as that provided within a distance 2D from the face column.
 - The first stirrup should be provided at the distance of 50mm (maximum) from the face of the column.



TYPICAL DETAILS FOR MINIMUM CLEARANCE BETWEEN INDIVIDUAL BARS

OWNER SIGNATURE

DESIGNED BY:
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 (GENERAL MANAGER, PETROLEUM DIVISION)
 CIVIL ENGINEER
 STCBL, THIMPHU

DRAWING TITLE: TYPICAL BEAM DETAIL

STRUCTURAL DRAWING

DATE: APRIL 2021

SCALE: NTS

DRAWING

SHEET NO : ST/09

REVISION SUFFIX	NORTH
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CERTIFICATE NO: TSI-256-5
FLOORS: G+1 STRUCTURE



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DESIGNED BY:
SUGAN PRADHAN
 (GENERAL MANAGER, PETROLEUM
 DIVISION)
 CIVIL ENGINEER
 STCBL, THIMPHU
DRAWING TITLE: PLINTH BEAM

STRUCTURAL DRAWING

DATE: APRIL 2021

SCALE: NTS

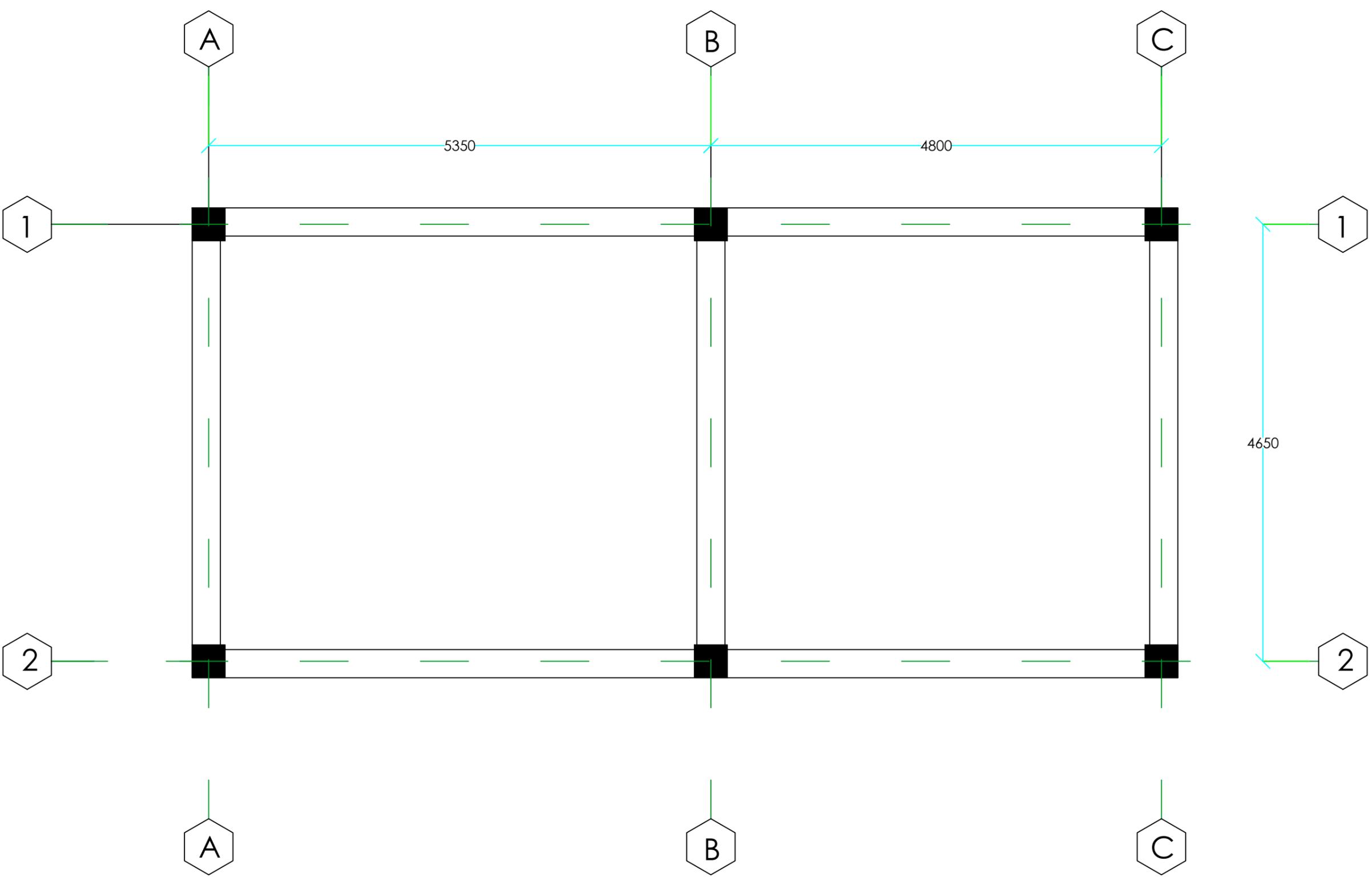
DRAWING

SHEET NO : ST/10

REVISION SUFFIX	NORTH
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PLINTH BEAM DETAILS

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LOCATION: DAMPHU, TSIRANG
OWNER: STCBL
PLOT ID: L18U-03
CERTIFICATE NO: TSI-256-5
FLOORS: G+1 STRUCTURE



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DRAWING TITLE: PLINTH BEAM DETAILS

STRUCTURAL DRAWING

DATE: APRIL 2021

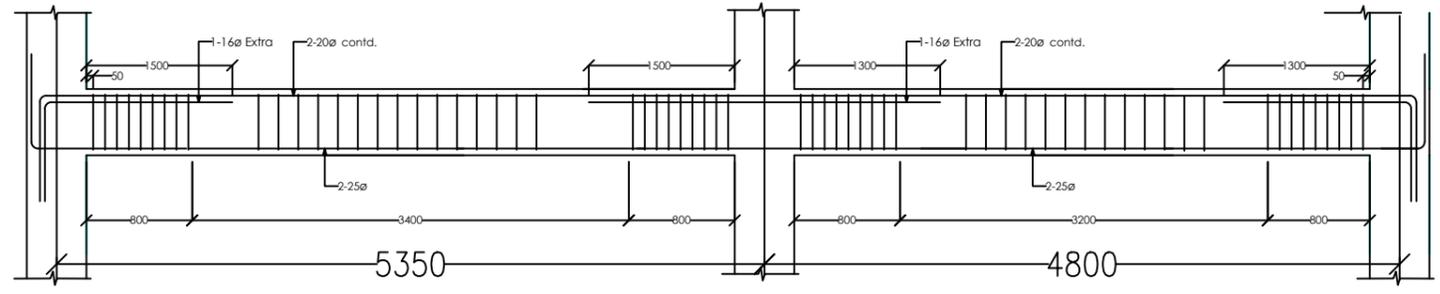
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DRAWING SHEET NO : ST/11

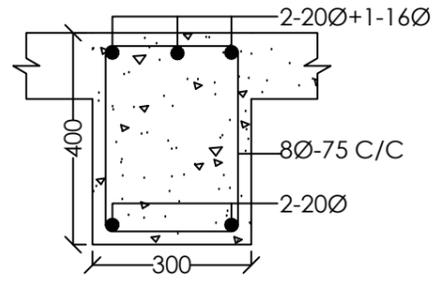
REVISION SUFFIX	NORTH
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GENERAL NOTE:

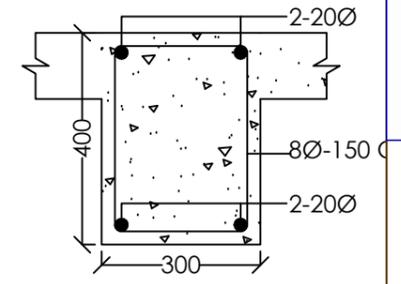
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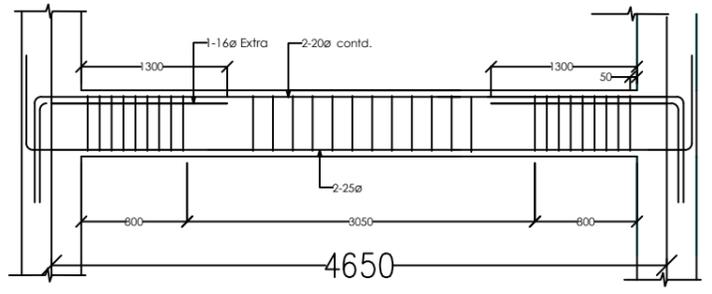
ALONG GRID 1 & 3



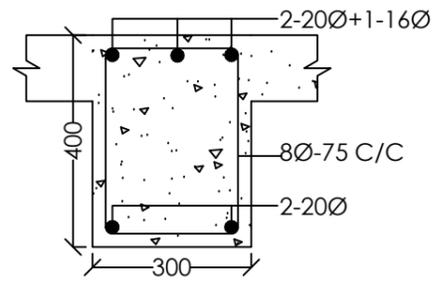
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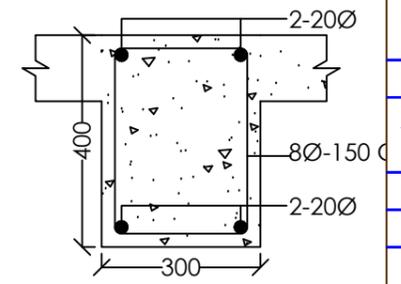
AT MID SPAN



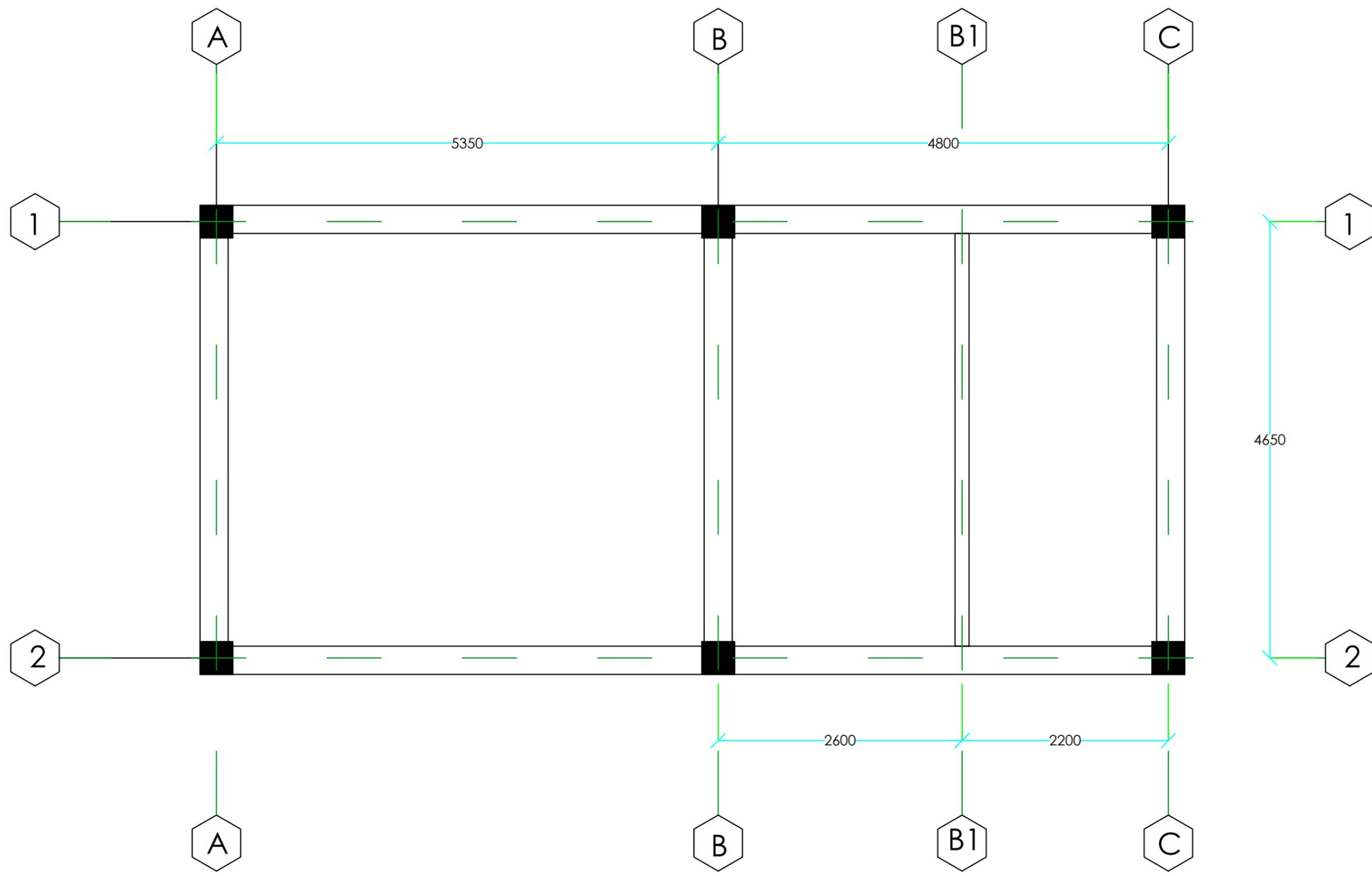
ALONG GRID A, B & D



AT END



AT MID SPAN



FIRST FLOOR BEAM DETAILS

PROJECT:	
TITLE:	FUEL RETAIL OUTLET
LOCATION:	DAMPHU, TSIRANG
OWNER:	STCBL
PLOT ID:	L18U-03
CERTIFICATE NO:	TSI-256-5
FLOORS:	G+1 STRUCTURE



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 (GENERAL MANAGER, PETROLEUM DIVISION)
 CIVIL ENGINEER
 STCBL, THIMPHU

DRAWING TITLE: FIRST FLOOR BEAM
STRUCTURAL DRAWING

DATE: APRIL 2021

SCALE: NTS

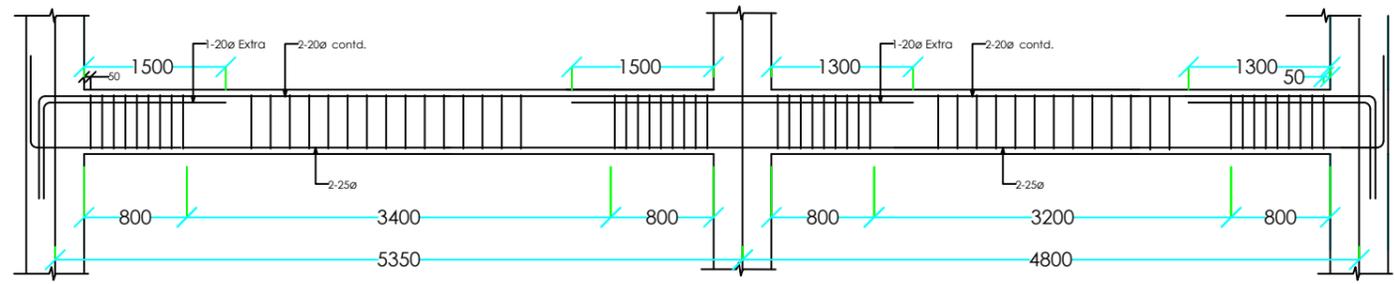
DRAWING SHEET NO : ST/12

REVISION SUFFIX	NORTH
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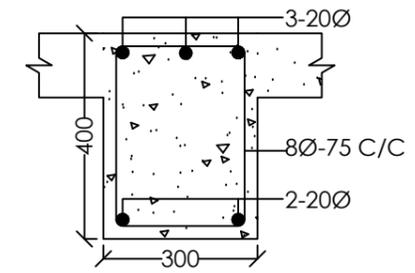
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PROJECT:

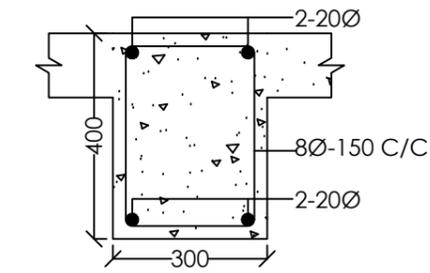
TITLE: FUEL RETAIL OUTLET
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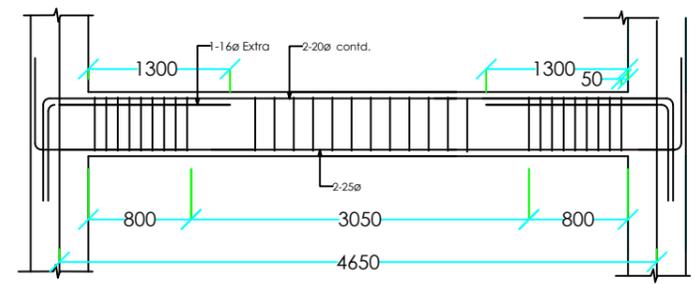
ALONG GRID 1 & 3



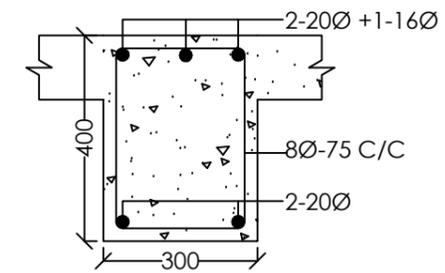
AT END



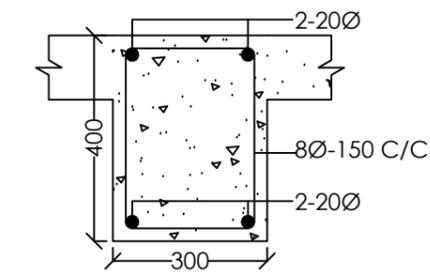
AT MID SPAN



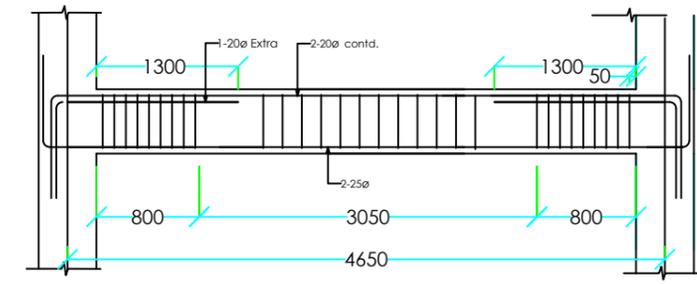
ALONG GRID A, B & D



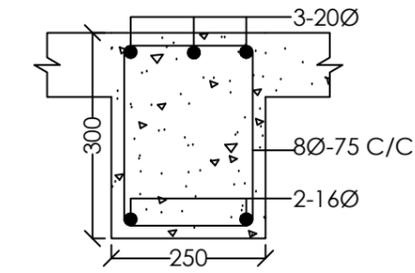
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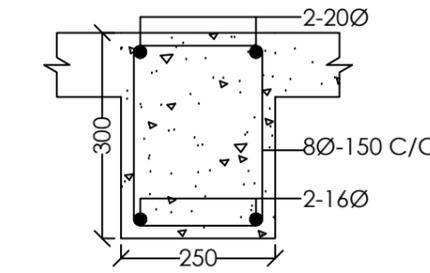
AT MID SPAN



ALONG GRID C (SECONDARY BEAM)



AT END



AT MID SPAN

OWNER SIGNATURE

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 CIVIL ENGINEER
 STCBL, THIMPHU
DRAWING TITLE: FIRST FLOOR BEAM

STRUCTURAL DRAWING

DATE: APRIL 2021

SCALE: NTS

DRAWING

SHEET NO : ST/13

REVISION SUFFIX	NORTH
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PROJECT:

TITLE: FUEL RETAIL OUTLET
LOCATION: DAMPHU, TSIRANG
OWNER: STCBL
PLOT ID: L18U-03
CERTIFICATE NO: TSI-256-5
FLOORS: G+1 STRUCTURE



OWNER SIGNATURE

DESIGNED BY:
SUGAN PRADHAN
 (GENERAL MANAGER, PETROLEUM DIVISION)
 CIVIL ENGINEER
 STCBL, THIMPHU
DRAWING TITLE: ROOF BEAM

STRUCTURAL DRAWING

DATE: APRIL 2021

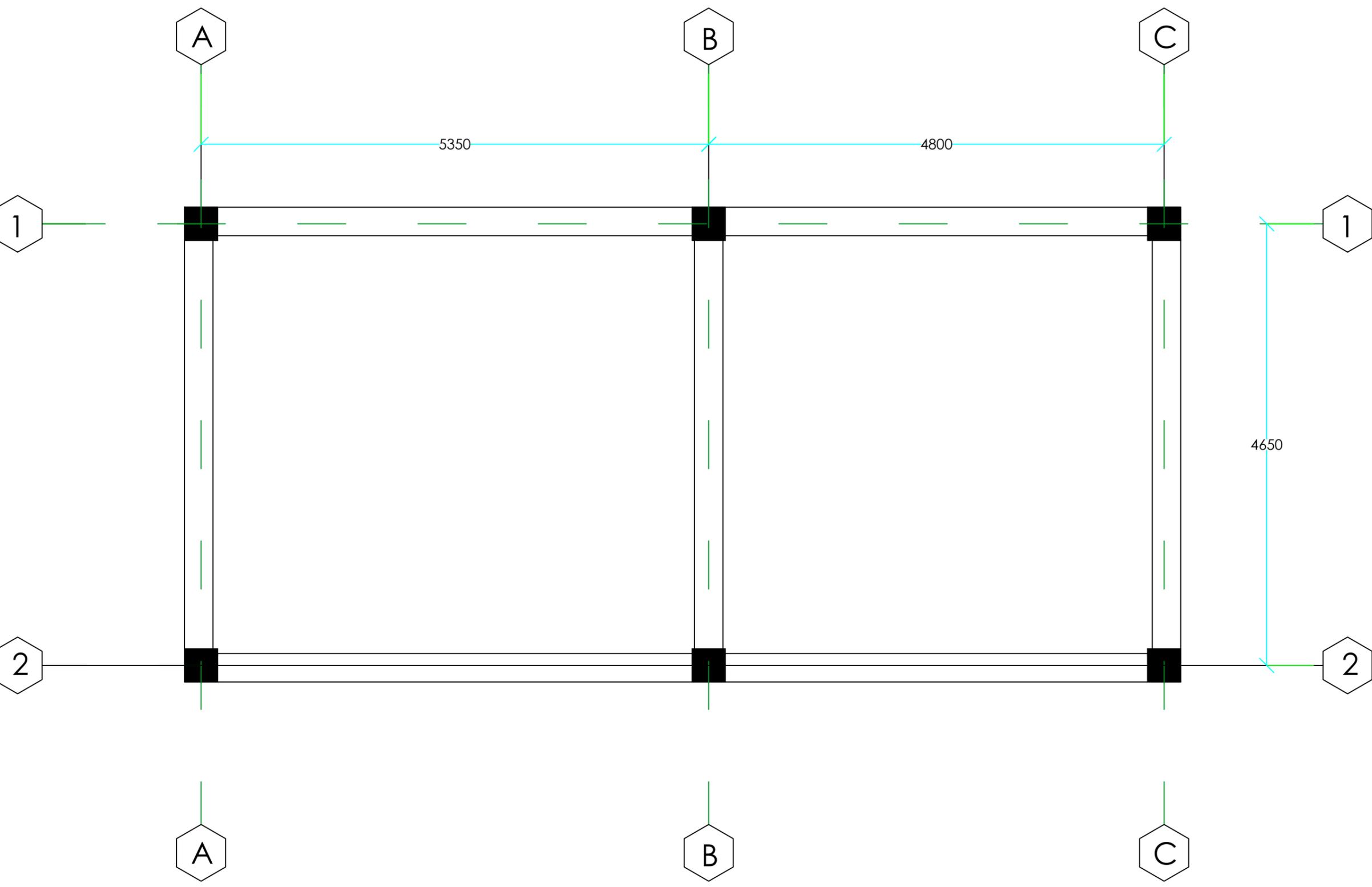
SCALE: NTS

DRAWING SHEET NO : ST/14

REVISION SUFFIX	NORTH
□ □ □ □ □	

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ROOF BEAM DETAIL

PROJECT:

TITLE: FUEL RETAIL OUTLET
LOCATION: DAMPHU, TSIRANG
OWNER: STCBL
PLOT ID: L18U-03
CERTIFICATE NO: TSI-256-5
FLOORS: G+1 STRUCTURE



OWNER SIGNATURE

DESIGNED BY:
SUGAN PRADHAN
 (GENERAL MANAGER, PETROLEUM DIVISION)
 CIVIL ENGINEER
 STCBL, THIMPHU

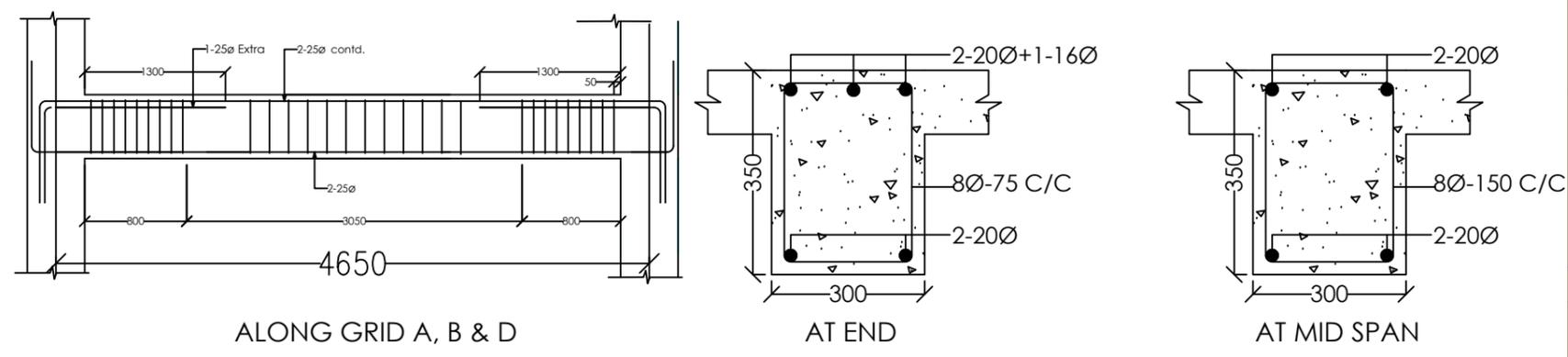
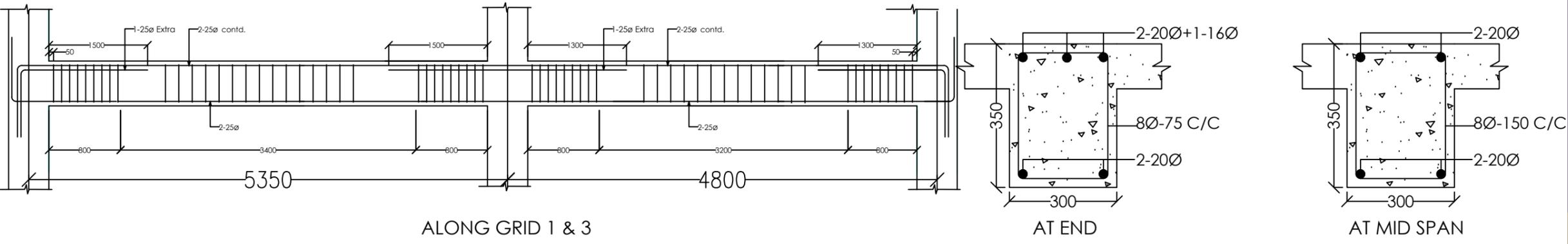
DRAWING TITLE: ROOF BEAM DETAILS
STRUCTURAL DRAWING

DATE: APRIL 2021
SCALE: NTS
DRAWING SHEET NO : ST/15

REVISION SUFFIX	NORTH
□ □ □ □ □	

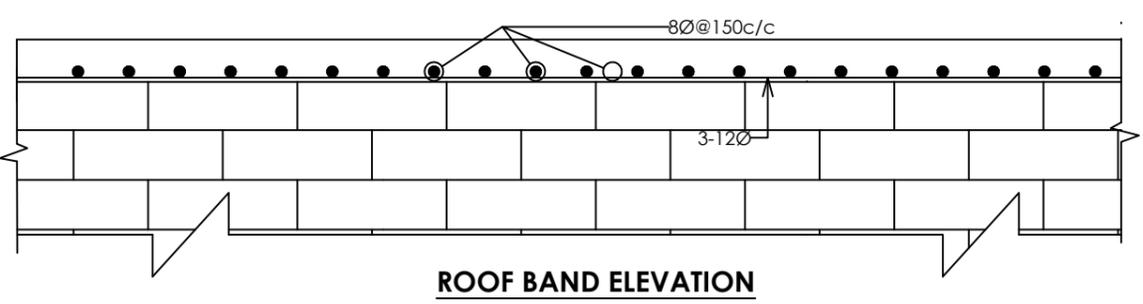
GENERAL NOTE:

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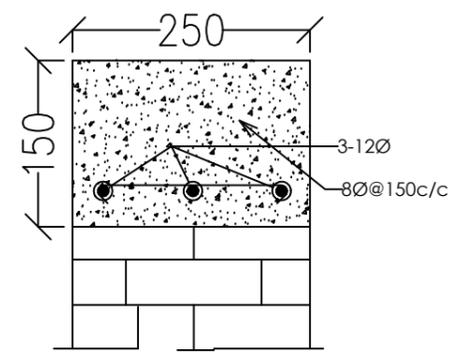


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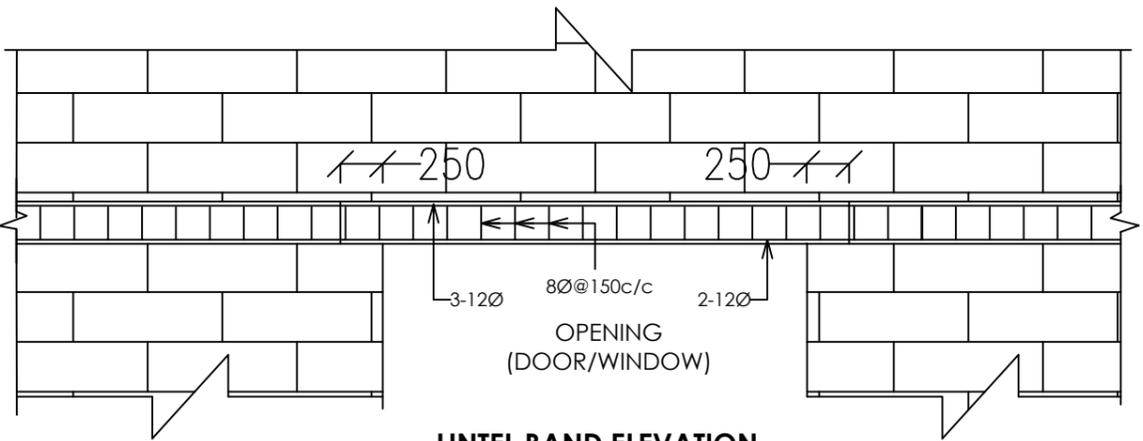
TITLE: FUEL RETAIL OUTLET
LOCATION: DAMPHU, TSIRANG
OWNER: STCBL
PLOT ID: L18U-03
CERTIFICATE NO: TSI-256-5
FLOORS: G+1 STRUCTURE



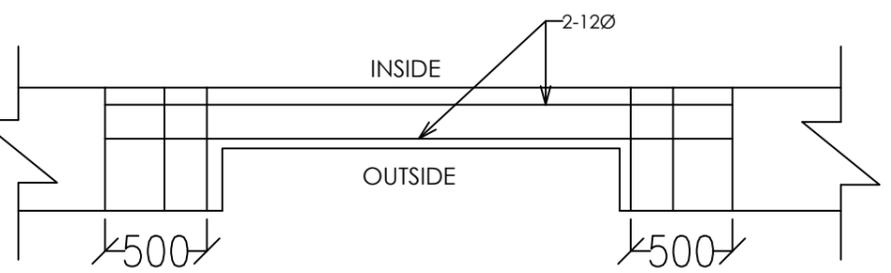
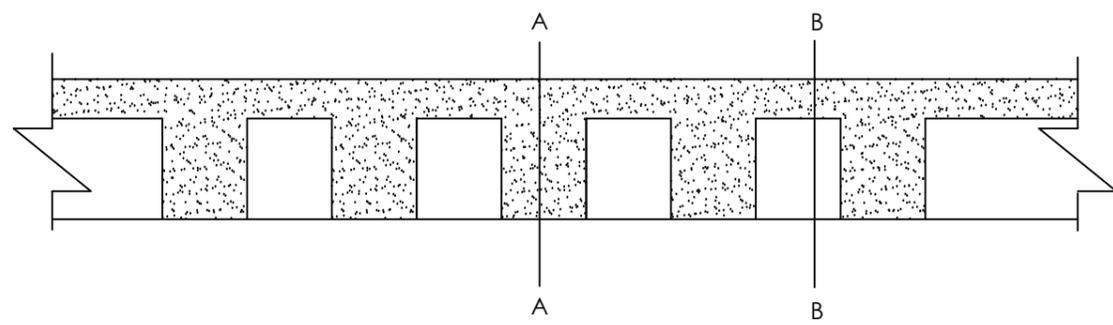
ROOF BAND ELEVATION



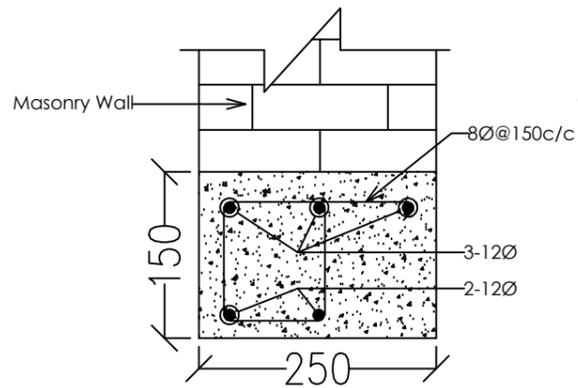
ROOF BAND



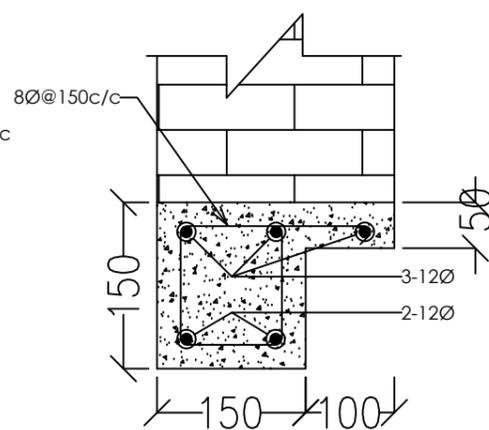
LINTEL BAND ELEVATION



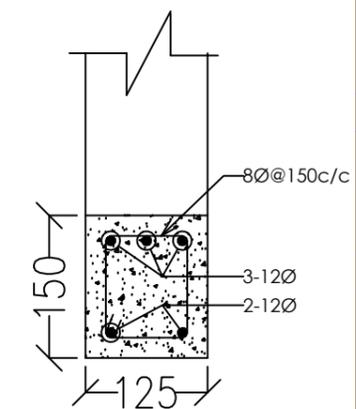
BOTTOM REINFORCEMENT PLAN



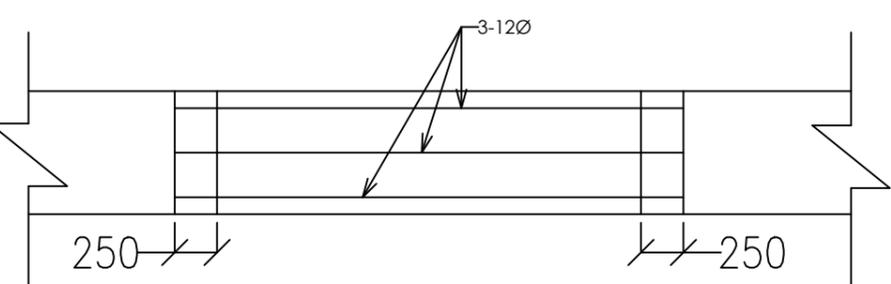
EXTERNAL SECTION A-A



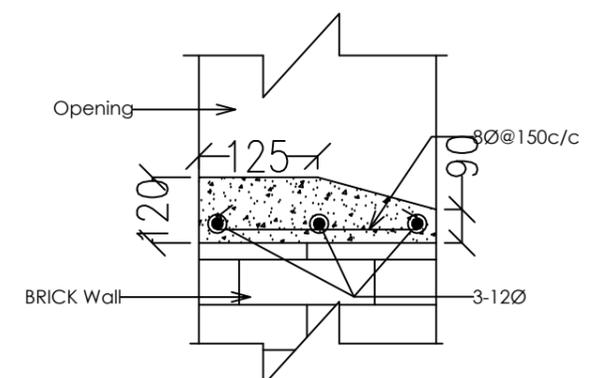
EXTERNAL SECTION B-B



INTERNAL



TOP REINFORCEMENT PLAN



RCC SILL SECTION

TYPICAL REINFORCEMENT LAYOUT IN LINTEL BAND OVER OPENING

OWNER SIGNATURE

DESIGNED BY:
SUGAN PRADHAN
 (GENERAL MANAGER, PETROLEUM DIVISION)
 CIVIL ENGINEER
 STCBL, THIMPHU

DRAWING TITLE: LINTEL BEAM

STRUCTURAL DRAWING

DATE: APRIL 2021

SCALE: NTS

DRAWING SHEET NO : ST/16

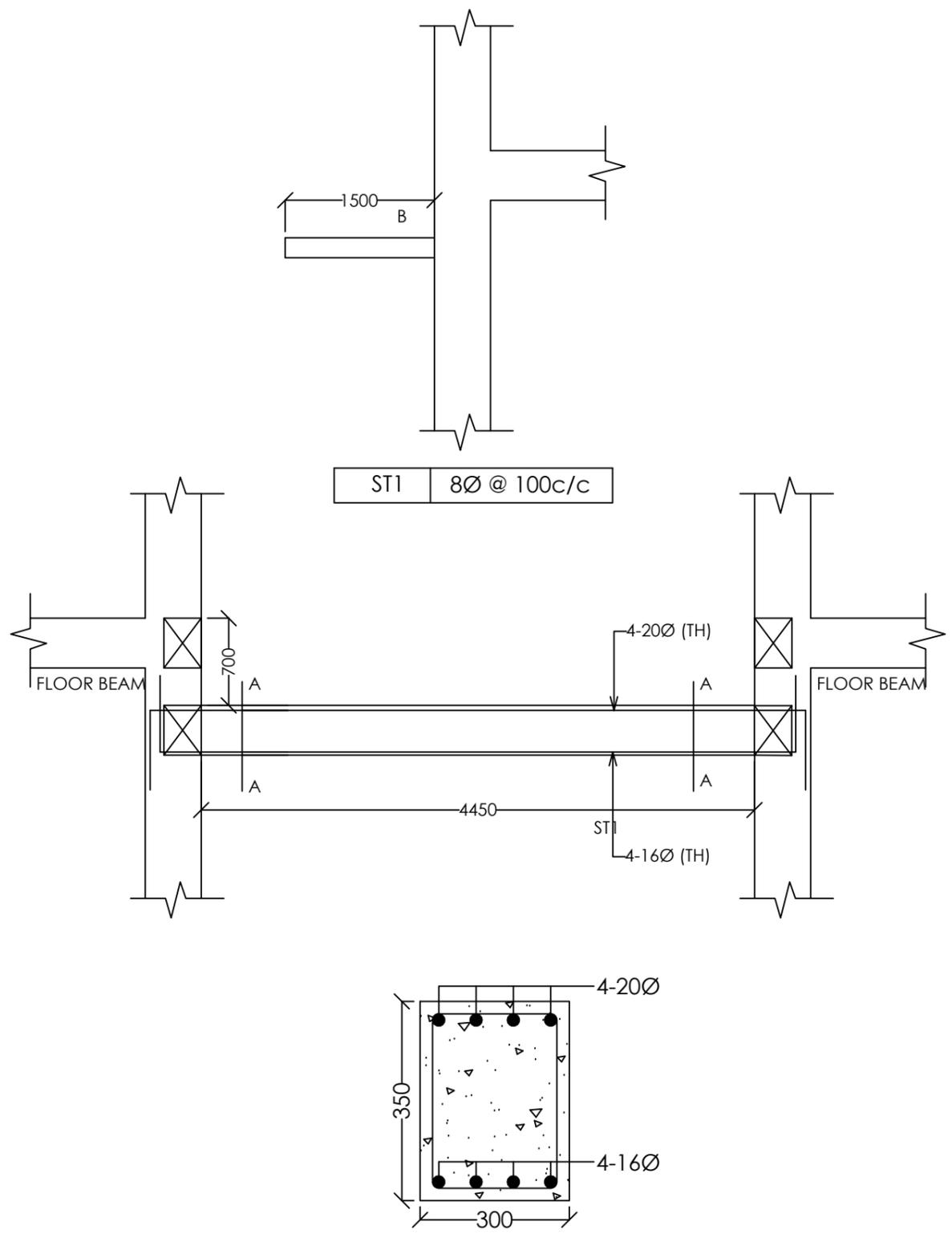
REVISION SUFFIX	NORTH
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GENERAL NOTE:

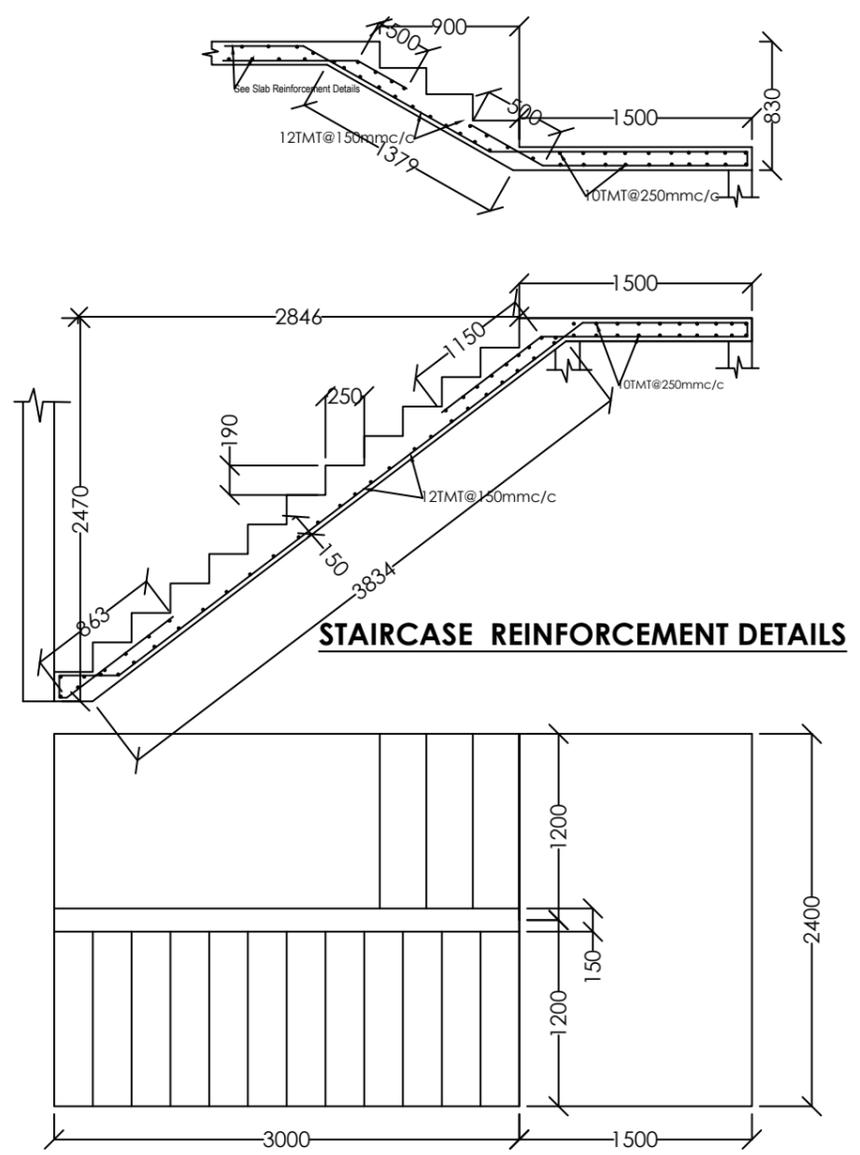
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PROJECT:

TITLE: FUEL RETAIL OUTLET
LOCATION: DAMPHU, TSIRANG
OWNER: STCBL
PLOT ID: L18U-03
CERTIFICATE NO: TSI-256-5
FLOORS: G+1 STRUCTURE



SECTION A-A
STAIRCASE LANDING BEAM REINFORCEMENT DETAILS



STAIRCASE REINFORCEMENT DETAILS

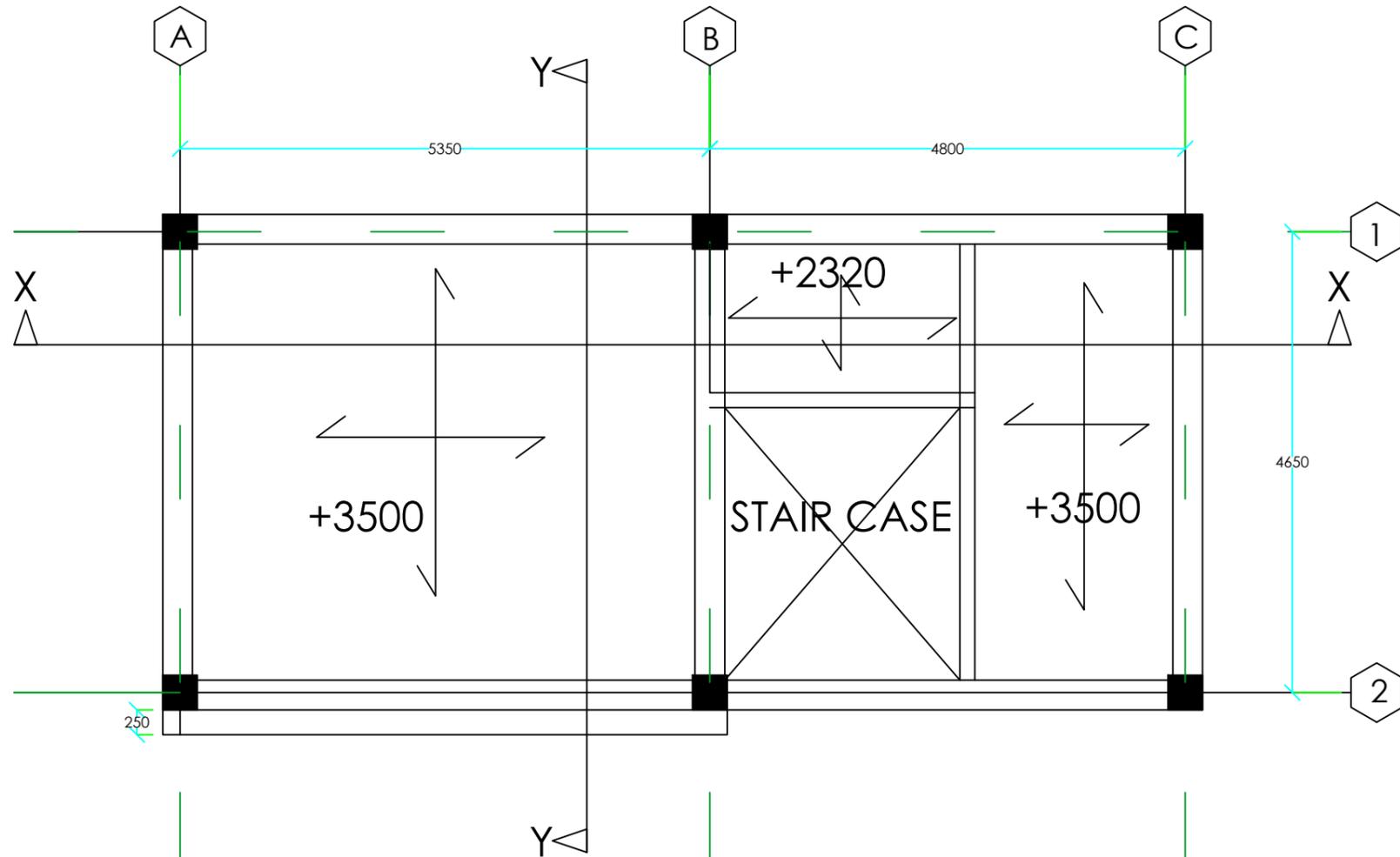
OWNER SIGNATURE

DESIGNED BY:
SUGAN PRADHAN
 (GENERAL MANAGER, PETROLEUM DIVISION)
 CIVIL ENGINEER
 STCBL, THIMPHU
DRAWING TITLE: STAIRCASE DETAILS
STRUCTURAL DRAWING

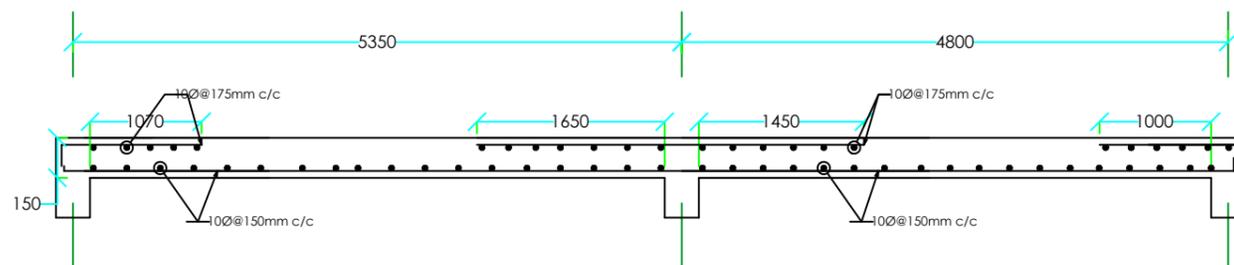
DATE: APRIL 2021
SCALE: NTS
DRAWING SHEET NO : ST/17

REVISION SUFFIX	NORTH
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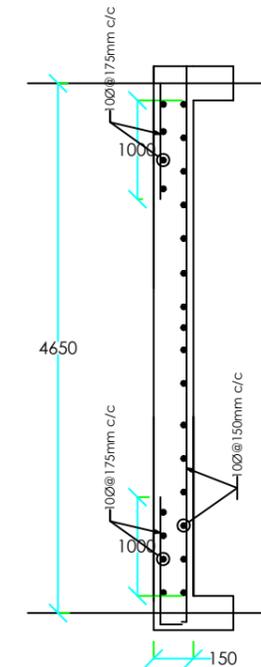
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FIRST FLOOR SLAB



SECTION X-X



SECTION Y-Y

PROJECT:

TITLE: FUEL RETAIL OUTLET
 LOCATION: DAMPHU, TSIRANG
 OWNER: STCBL
 PLOT ID: L18U-03
 CERTIFICATE NO: TSI-256-5
 FLOORS: G+1 STRUCTURE



OWNER SIGNATURE

DESIGNED BY:

SUGAN PRADHAN
 (GENERAL MANAGER, PETROLEUM
 DIVISION)
 CIVIL ENGINEER
 STCBL, THIMPHU

DRAWING TITLE: SLAB DETAILS

STRUCTURAL DRAWING

DATE: APRIL 2021

SCALE: NTS

DRAWING

SHEET NO : ST/18

REVISION SUFFIX

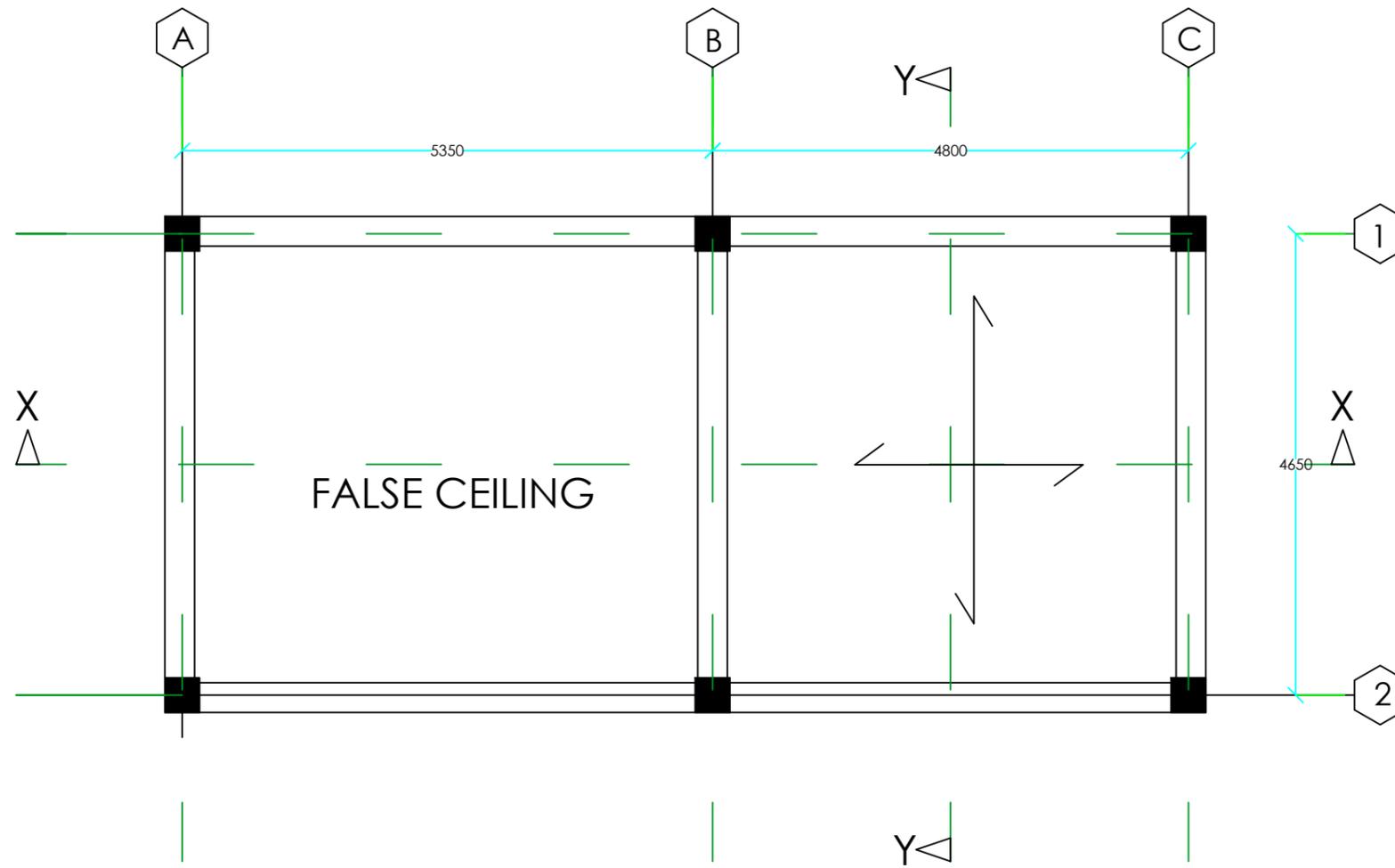
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NORTH

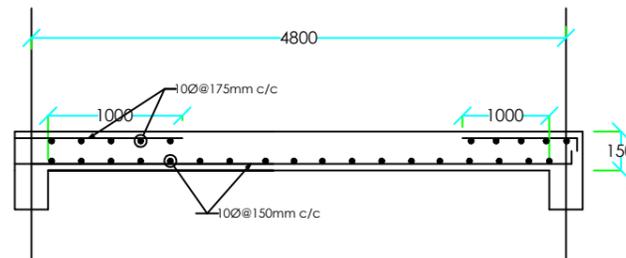


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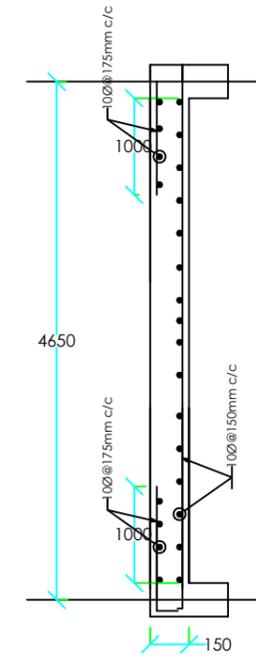
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ROOF SLAB



SECTION X-X



SECTION Y-Y

PROJECT:

TITLE: FUEL RETAIL OUTLET
 LOCATION: DAMPHU, TSIRANG
 OWNER: STCBL
 PLOT ID: L18U-03
 CERTIFICATE NO: TSI-256-5
 FLOORS: G+1 STRUCTURE



OWNER SIGNATURE

DESIGNED BY:

SUGAN PRADHAN
 (GENERAL MANAGER, PETROLEUM
 DIVISION)
 CIVIL ENGINEER
 STCBL, THIMPHU

DRAWING TITLE: ROOF SLAB DETAILS

STRUCTURAL DRAWING

DATE: APRIL 2021

SCALE: NTS

DRAWING

SHEET NO : ST/19

REVISION SUFFIX

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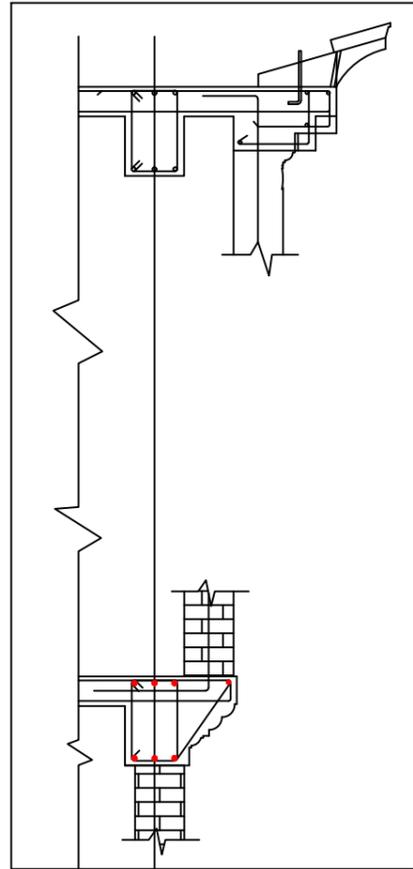
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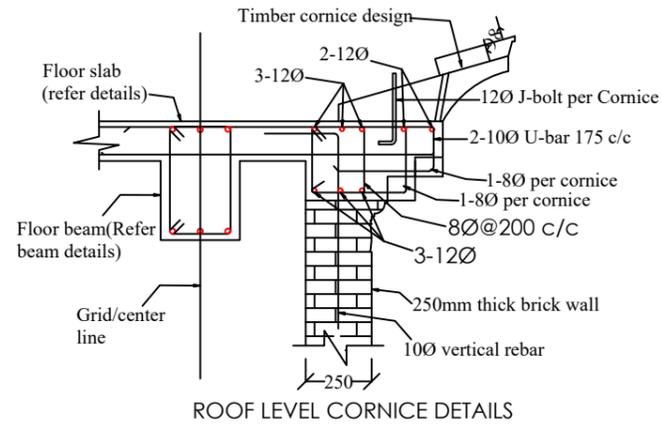
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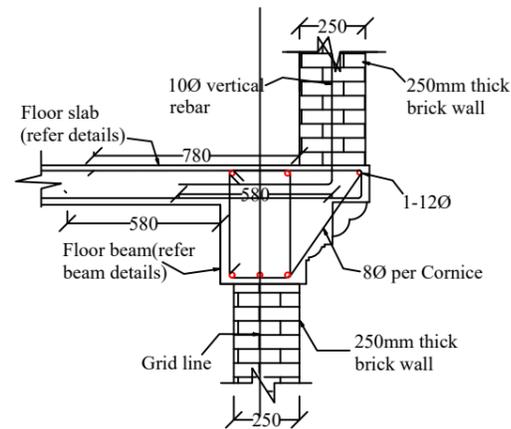
CORNICES



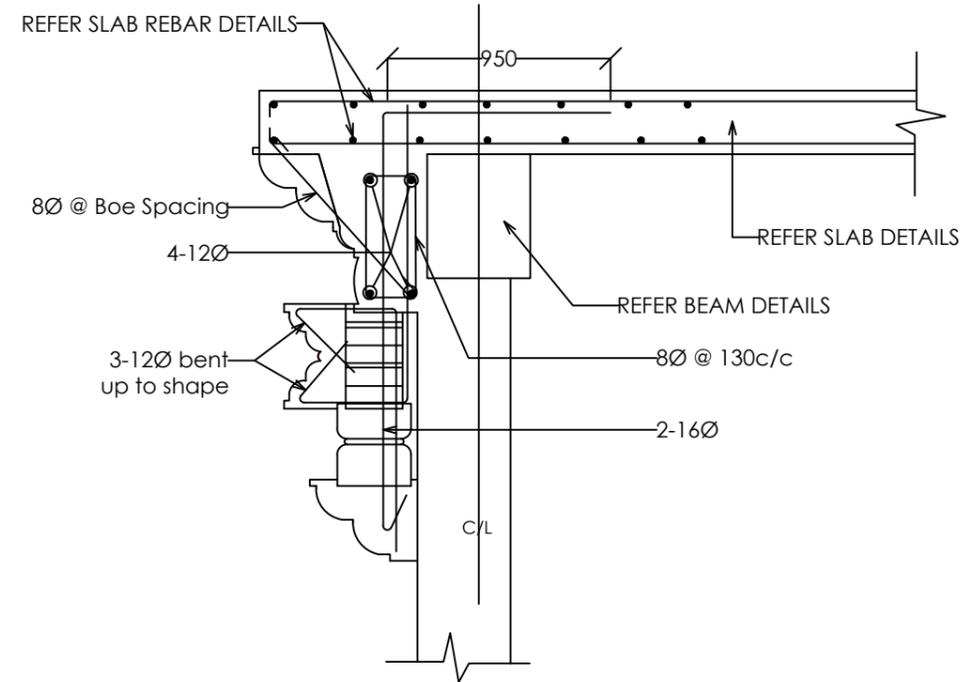
RC CORNICE DETAILS AT VARIOUS FLOOR LEVEL



ROOF LEVEL CORNICE DETAILS



FIRST FLOOR LEVEL CORNICE DETAILS



RE-BAR DETAILS OF DRE ZHU

Notes:

1. Slab rebar shall be extended wherever necessary for the slab projections & cornice (refer slab details drawings)
2. The cornice reinforcements provided are excluding the slab reinforcement already provided
3. Cornice patterns/shapes and dimensions shall be as per the architectural drawing details (Refer architectural drawings)
4. Refer architectural drawings for the location of different types cornices at various floor levels.

PROJECT:

TITLE: FUEL RETAIL OUTLET
 LOCATION: DAMPHU, TSIRANG
 OWNER: STCBL
 PLOT ID: L18U-03
 CERTIFICATE NO: TSI-256-5
 FLOORS: G+1 STRUCTURE



OWNER SIGNATURE

DESIGNED BY:

SUGAN PRADHAN
 (GENERAL MANAGER, PETROLEUM
 DIVISION)
 CIVIL ENGINEER
 STCBL, THIMPHU

DRAWING TITLE: CORNICES DETAILS

STRUCTURAL DRAWING

DATE: APRIL 2021

SCALE: NTS

DRAWING

SHEET NO : ST/20

REVISION SUFFIX

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NORTH

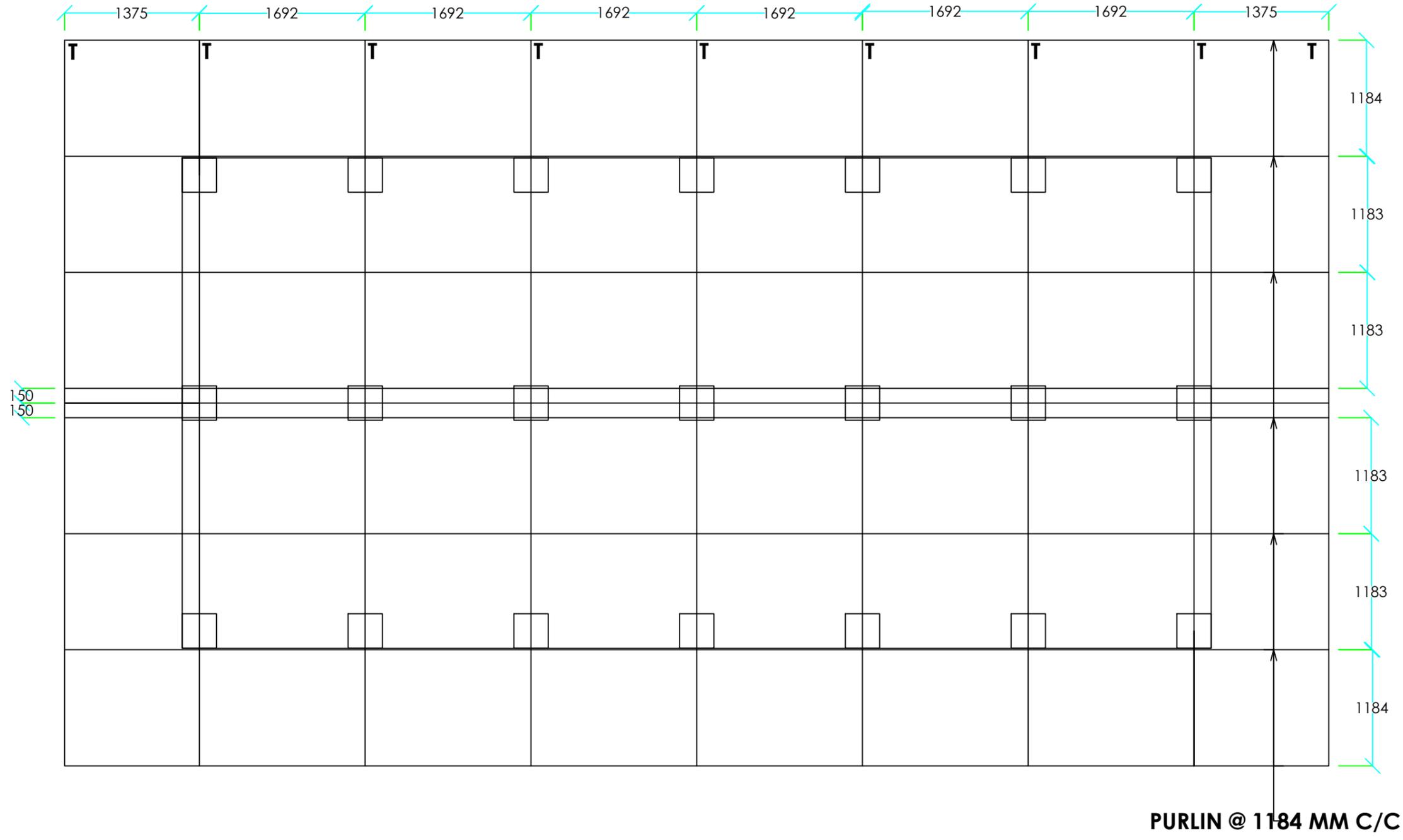


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PROJECT:

TITLE: FUEL RETAIL OUTLET
LOCATION: DAMPHU, TSIRANG
OWNER: STCBL
PLOT ID: L18U-03
CERTIFICATE NO: TSI-256-5
FLOORS: G+1 STRUCTURE



ROOF LAYOUT

OWNER SIGNATURE

DESIGNED BY:

SUGAN PRADHAN
 (GENERAL MANAGER, PETROLEUM
 DIVISION)
 CIVIL ENGINEER
 STCBL, THIMPHU

DRAWING TITLE: ROOF LAYOUT

STRUCTURAL DRAWING

DATE: APRIL 2021

SCALE: NTS

DRAWING

SHEET NO : ST/21

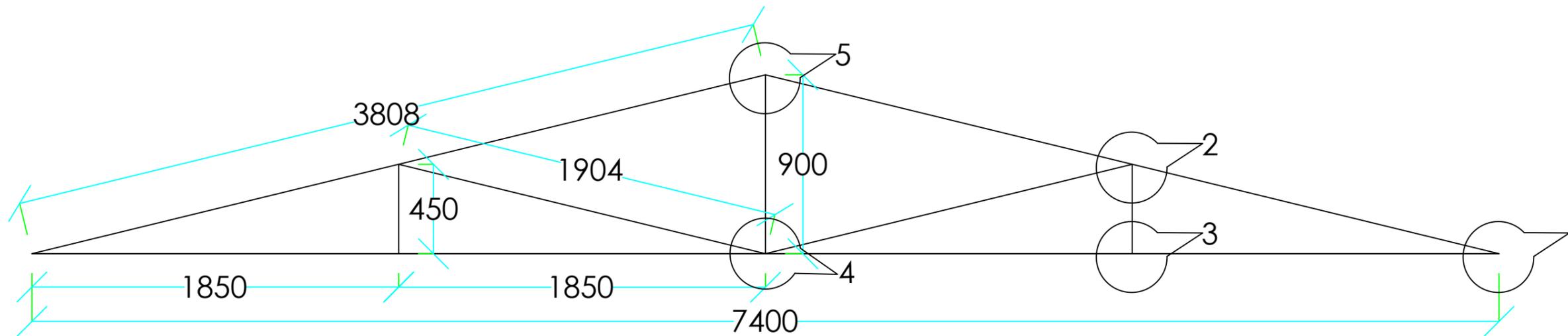
REVISION SUFFIX	NORTH
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PROJECT:

TITLE: FUEL RETAIL OUTLET
LOCATION: DAMPHU, TSIRANG
OWNER: STCBL
PLOT ID: L18U-03
CERTIFICATE NO: TSI-256-5
FLOORS: G+1 STRUCTURE



SCHEDULE OF TRUSS MEMBERS

MEMBER	SIZE
Bottom Chord/Tie	60.3mm OD, 3.65mm thick, 5.10Kg/m
Rafter	60.3mm OD, 3.65mm thick, 5.10Kg/m
Post	42.4mm OD, 3.25mm thick, 3.15Kg/m
Strut	42.4mm OD, 3.25mm thick, 3.15Kg/m
Purlin	42.4mm OD, 3.25mm thick, 3.15Kg/m @900c/c

OWNER SIGNATURE

DESIGNED BY:

SUGAN PRADHAN
 (GENERAL MANAGER, PETROLEUM
 DIVISION)
 CIVIL ENGINEER
 STCBL, THIMPHU

DRAWING TITLE: TRUSS DETAILS

STRUCTURAL DRAWING

DATE: APRIL 2021

SCALE: NTS

DRAWING

SHEET NO : ST/22

REVISION SUFFIX

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NORTH

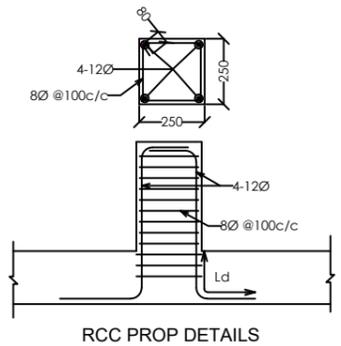


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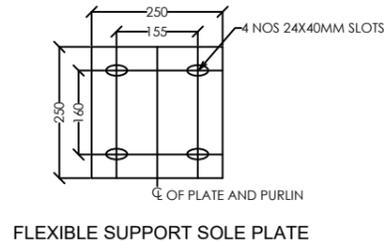
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PROJECT:

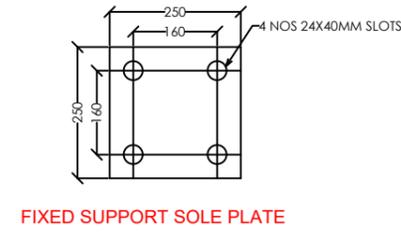
TITLE: FUEL RETAIL OUTLET
LOCATION: DAMPHU, TSIRANG
OWNER: STCBL
PLOT ID: L18U-03
CERTIFICATE NO: TSI-256-5
FLOORS: G+1 STRUCTURE



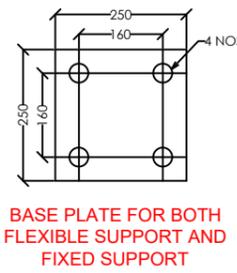
RCC PROP DETAILS



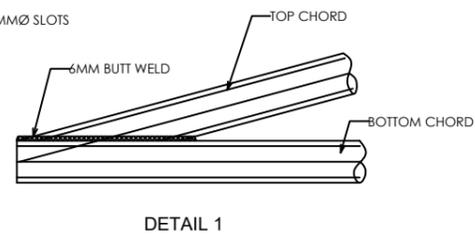
FLEXIBLE SUPPORT SOLE PLATE



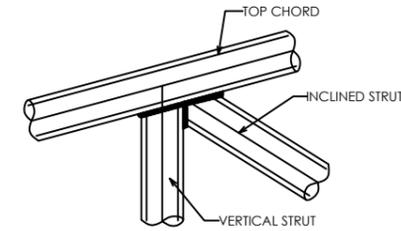
FIXED SUPPORT SOLE PLATE



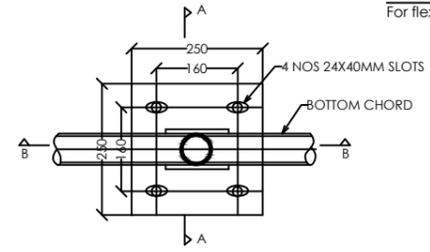
BASE PLATE FOR BOTH FLEXIBLE SUPPORT AND FIXED SUPPORT



DETAIL 1

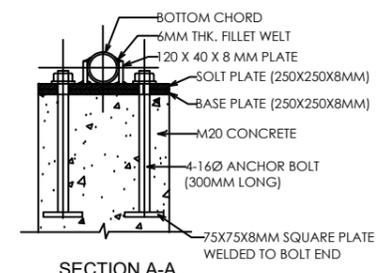


DETAIL 2

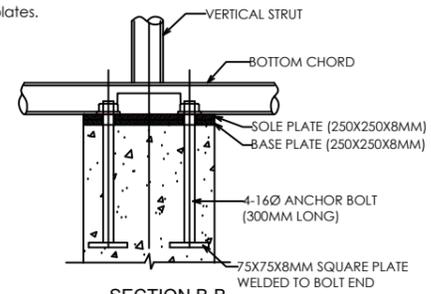


TRUSS HOLDING DOWN DETAILS

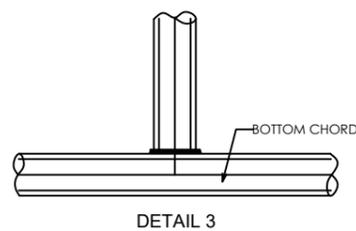
NOTES:
 For flexible support, bolts shall not be tightened so as to allow easy sliding of sole plates.



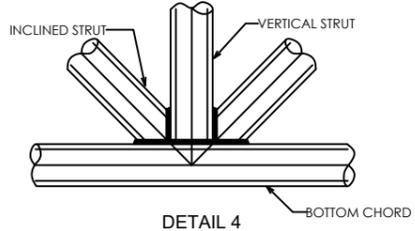
SECTION A-A



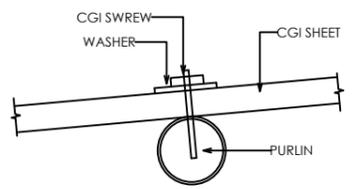
SECTION B-B



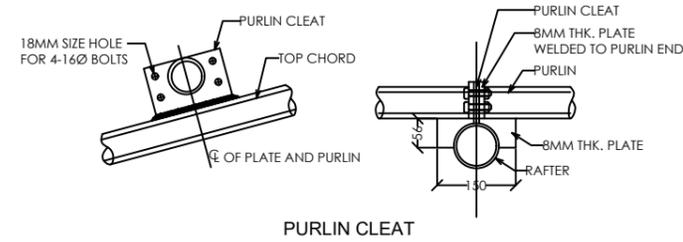
DETAIL 3



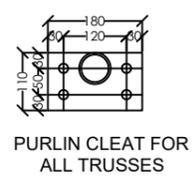
DETAIL 4



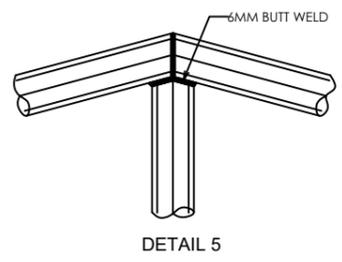
CONNECTION OF CGI SHEET TO PURLIN



PURLIN CLEAT

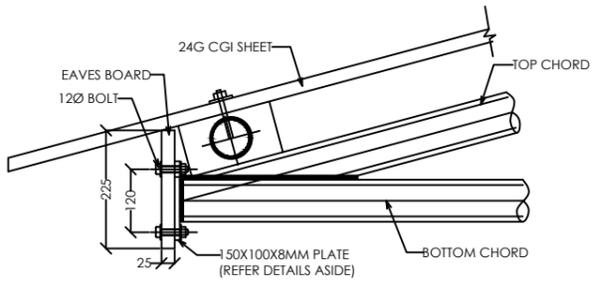


PURLIN CLEAT FOR ALL TRUSSES

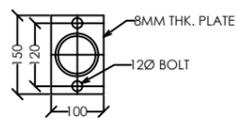


DETAIL 5

- NOTES:**
- All dimensions are in mm unless stated otherwise.
 - Connection details shown are for different types of joints and to be taken same for similar joints.
 - Height of RCC prop to be taken as per Architectural drawings.
 - All members of truss joint shall be in welding.
 - Welding shall conform to IS 816 and thickness shall be 6mm.
 - All Steel Tube Sections and Plates shall conform to IS 1161 & IS 2062.
 - All MS Nuts & Bolts shall conform to IS 1363-1984 and Washers shall conform to IS 5374.



CONNECTION OF EAVES BOARD TO STEEL TRUSS



EAVES BOARD PLATE DETAIL

OWNER SIGNATURE

DESIGNED BY:
SUGAN PRADHAN
 (GENERAL MANAGER, PETROLEUM DIVISION)
 CIVIL ENGINEER
 STCBL, THIMPHU

DRAWING TITLE: TRUSS DETAILS

STRUCTURAL DRAWING

DATE: APRIL 2021

SCALE: NTS

DRAWING SHEET NO : ST/23

REVISION SUFFIX	NORTH
□ □ □ □ □	

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PROJECT:

TITLE: FUEL RETAIL OUTLET
LOCATION: DAMPHU, TSIRANG
OWNER: STCBL
PLOT ID: L18U-03
CERTIFICATE NO: TSI-256-5
FLOORS: G+1 STRUCTURE



OWNER SIGNATURE

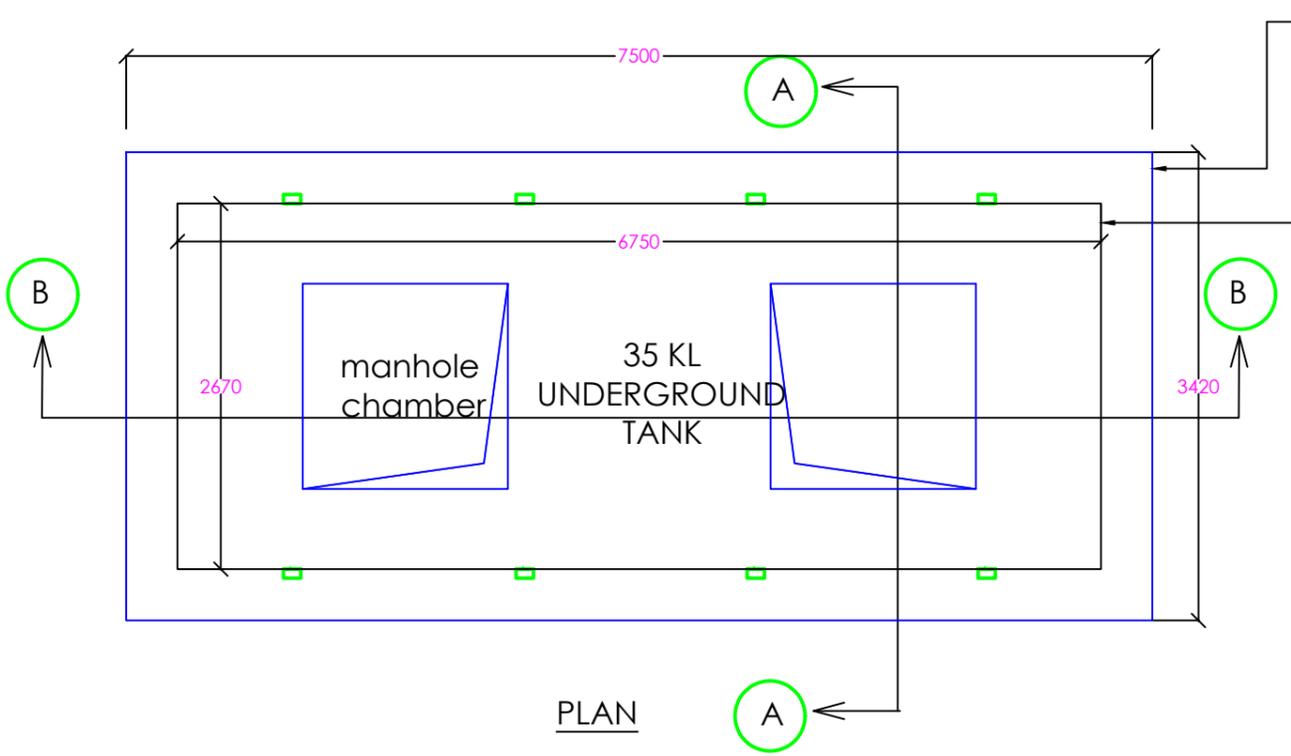
DESIGNED BY:
SUGAN PRADHAN
 (GENERAL MANAGER, PETROLEUM DIVISION)
 CIVIL ENGINEER
 STCBL, THIMPHU
DRAWING TITLE: UG TANK DETAILS
STRUCTURAL DRAWING

DATE: APRIL 2021
SCALE: NTS
DRAWING SHEET NO : ST/24

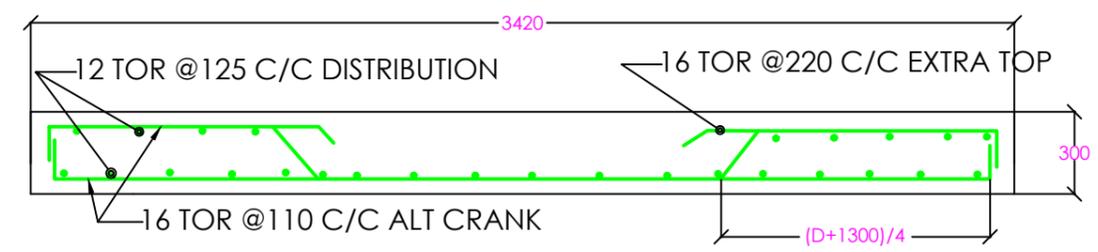
REVISION SUFFIX	NORTH
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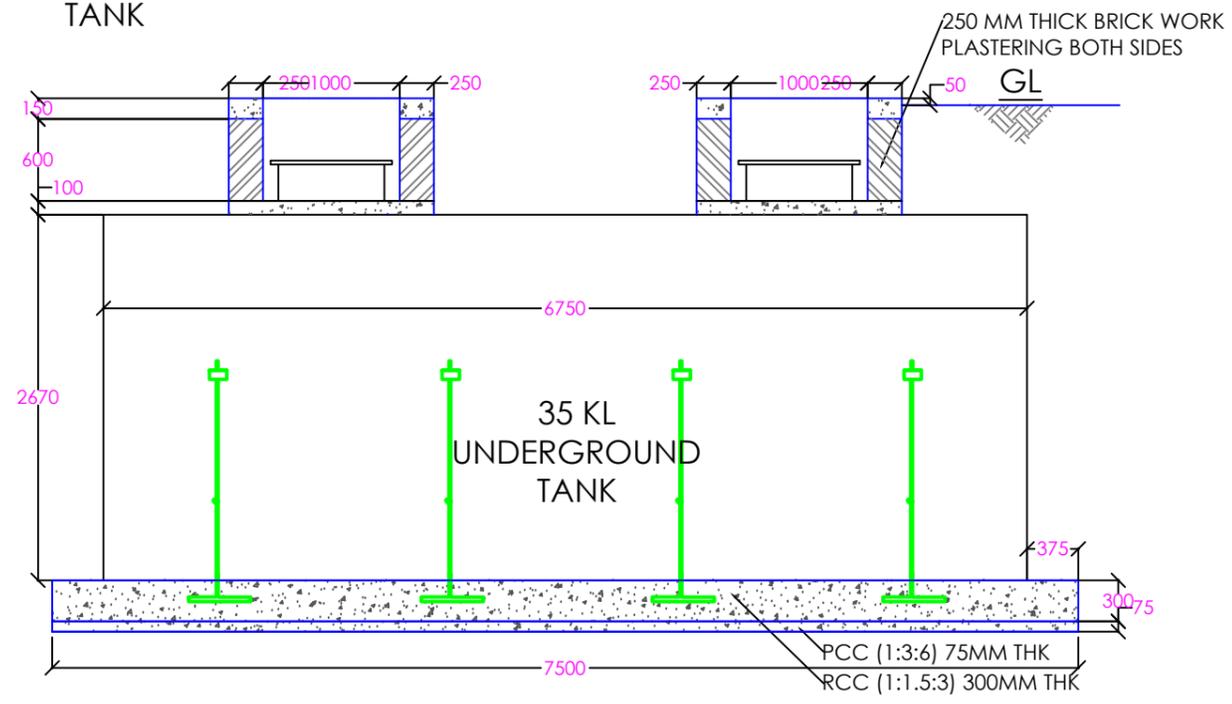


1. ALL DIMENSION ARE IN MILLIMETERS
2. ALL STEEL SURFACES IN CONTACT WITH CONCRETE SHALL NOT BE PAINTED.
3. CONCRETE SHALL BE OF GRADE M-20 (1:1.5:3.)
4. FOR COMMON WALL, WALL THICKNESS SHALL BE 250 MM
5. CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS FOR TOP & BOTTOM SLAB 25MM & SIDES 40MM
6. DEPTH TO BE FINALIZED AT SITE DEPENDING ON SOIL CONDITION.
7. THE WELDING SHALL BE AS PER IS:816 USING ONLY IS MARKED ELECTRODES OF APPROVED MAKE.
8. GRADE OF STEEL SHALL BE Fe 500.
9. MINIMUM LAP LENGTH SHALL BE 50 TIMES OF DIAMETER OF BAR & LAP SHALL BE SUITABLY STAGGERED.
10. BEARING CAPACITY OF SOIL CONSIDERED 10 T/SQM.

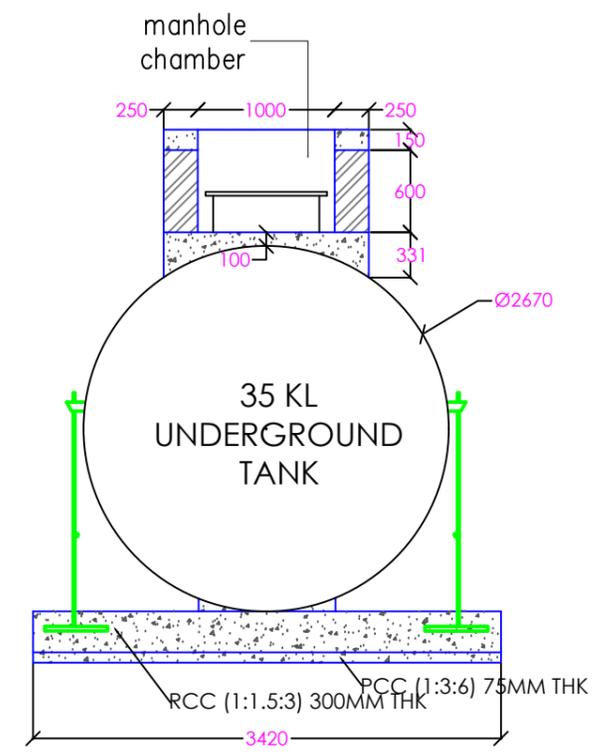


BOTTOM RAFT REINFORCEMENT DETAILS

SHEET TITLE:
DRAWING OF 35 KL UNDERGROUND TANK

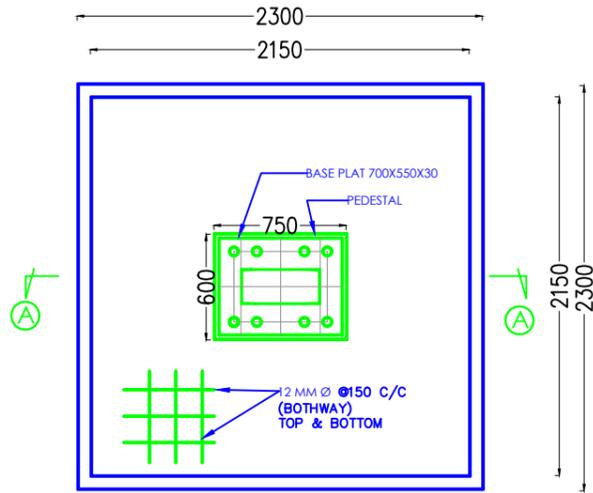


CROSS SECTION B-B

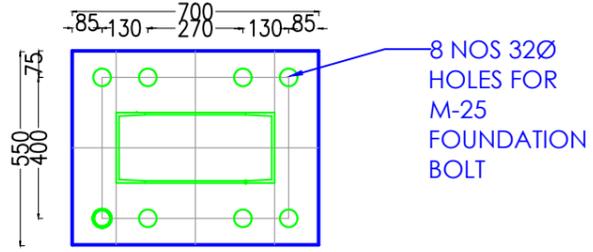


CROSS SECTION A-A

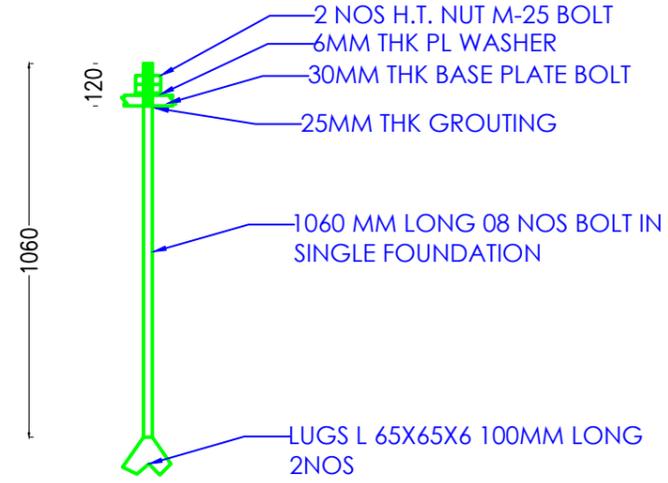
PROJECT:	
TITLE:	FUEL RETAIL OUTLET
LOCATION:	DAMPHU, TSIRANG
OWNER:	STCBL
PLOT ID:	L18U-03
CERTIFICATE NO:	TSI-256-5
FLOORS:	G+1 STRUCTURE



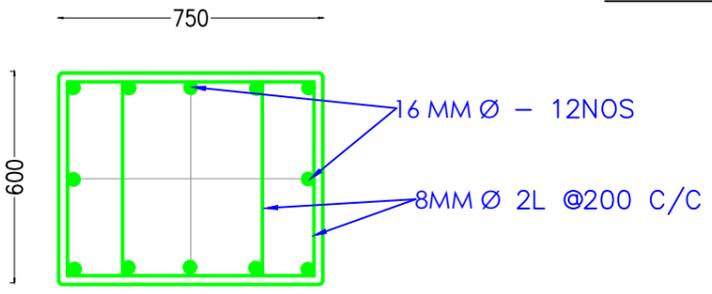
PLAN OF FOOTING



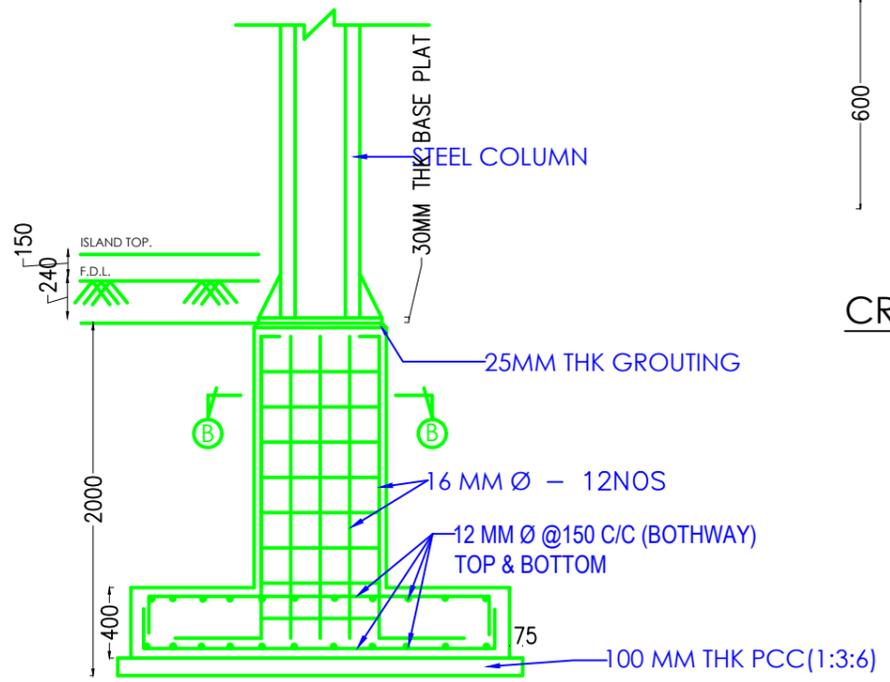
BASE PLATE PLAN



DETAIL OF FOUNDATION BOLT



CROSS SECTION B-B



CROSS SECTION A-A

CANOPY

SHEET TITLE:
DRAWING OF FOUNDATION DETAILS OF CANOPY

- ALL DIMENSION ARE IN MILLIMETERS
- ALL STEEL SURFACES IN CONTACT WITH CONCRETE SHALL NOT BE PAINTED.
- CONCRETE SHALL BE OF GRADE M-20 (1:1.5:3.)
- FOR COMMON WALL, WALL THICKNESS SHALL BE 500MM
- CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS. FOR TOP & BOTTOM SLAB 25MM & SIDES 40MM
- DEPTH TO BE FINALIZED AT SITE DEPENDING ON SOIL CONDITION.
- THE WELDING SHALL BE AS PER IS:816 USING ONLY IS MARKED ELECTRODES OF APPROVED MAKE.
- GRADE OF STEEL SHALL BE Fe 415
- MINIMUM LAP LENGTH SHALL BE 50 TIMES OF DIA OF BAR & LAP SHALL BE SUITABLY STAGGERED
- BEARING CAPACITY OF SOIL CONSIDERED 10 T/SQM
- DESIGN BASIS : IS 456, IS 875 (PART i - iv)

OWNER SIGNATURE

DESIGNED BY:

SUGAN PRADHAN
(GENERAL MANAGER, PETROLEUM DIVISION)
CIVIL ENGINEER
STCBL, THIMPHU

DRAWING TITLE: CANOPY FOUNDATION

STRUCTURAL DRAWING

DATE: APRIL 2021

SCALE: NTS

DRAWING

SHEET NO : ST/25

REVISION SUFFIX	NORTH
□ □ □ □ □	

GENERAL NOTE:

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PROJECT:

TITLE: FUEL RETAIL OUTLET
LOCATION: DAMPHU, TSIRANG
OWNER: STCBL
PLOT ID: L18U-03
CERTIFICATE NO: TSI-256-5
FLOORS: G+1 STRUCTURE



OWNER SIGNATURE

DESIGNED BY:
SUGAN PRADHAN
 (GENERAL MANAGER, PETROLEUM DIVISION)
 CIVIL ENGINEER
 STCBL, THIMPHU

DRAWING TITLE: ISLAND DETAILS

STRUCTURAL DRAWING

DATE: APRIL 2021

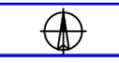
SCALE: NTS

DRAWING SHEET NO : ST/27

REVISION SUFFIX

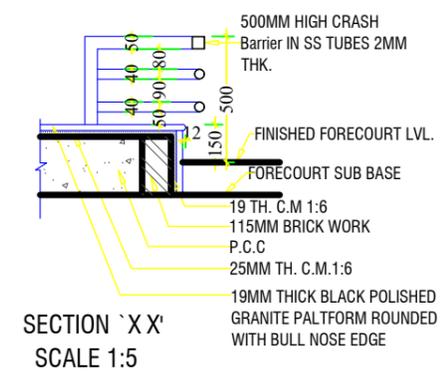
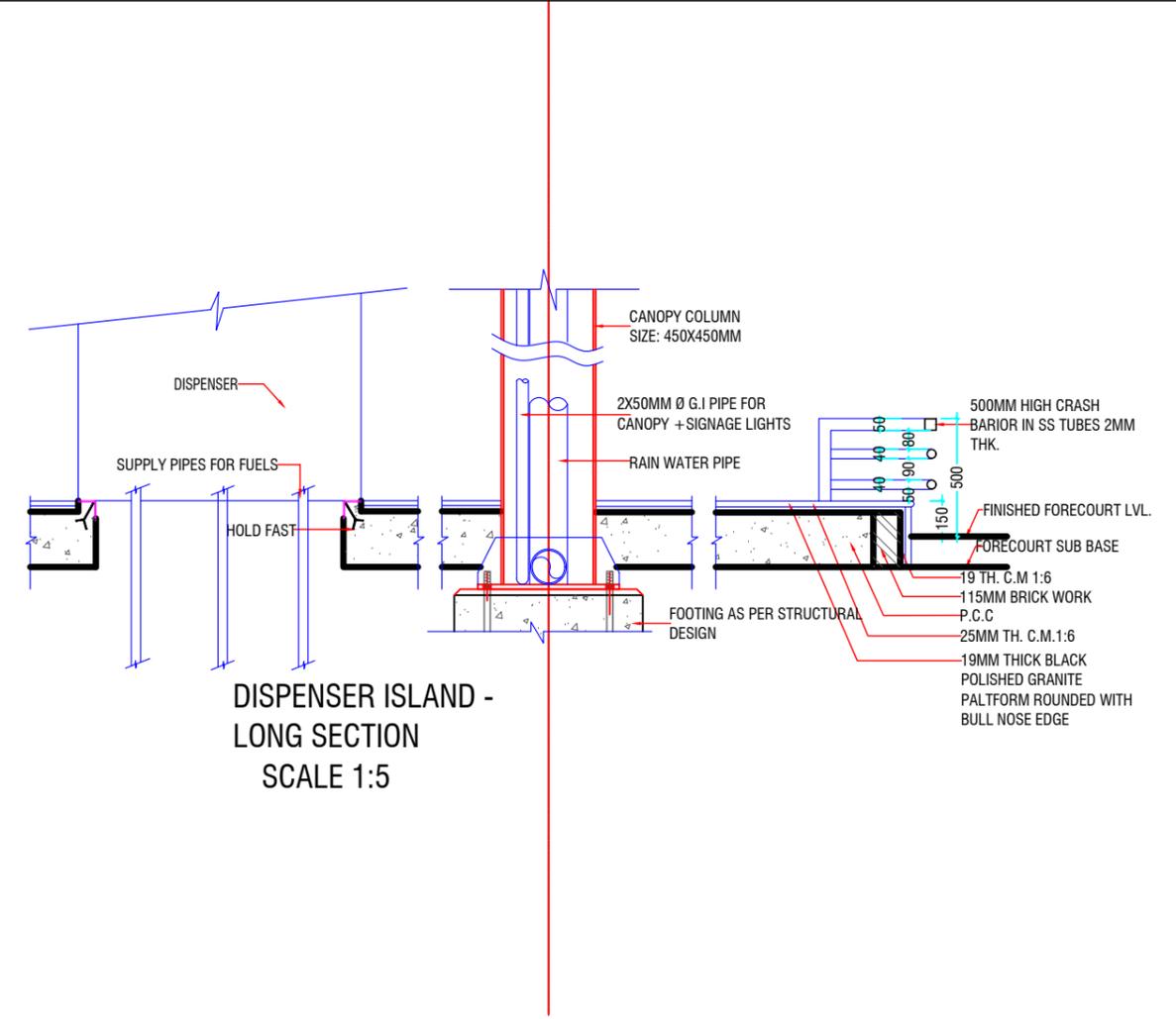
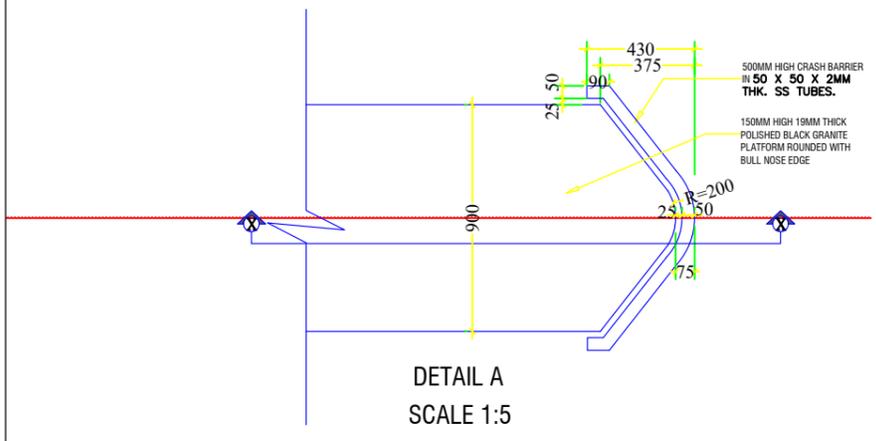
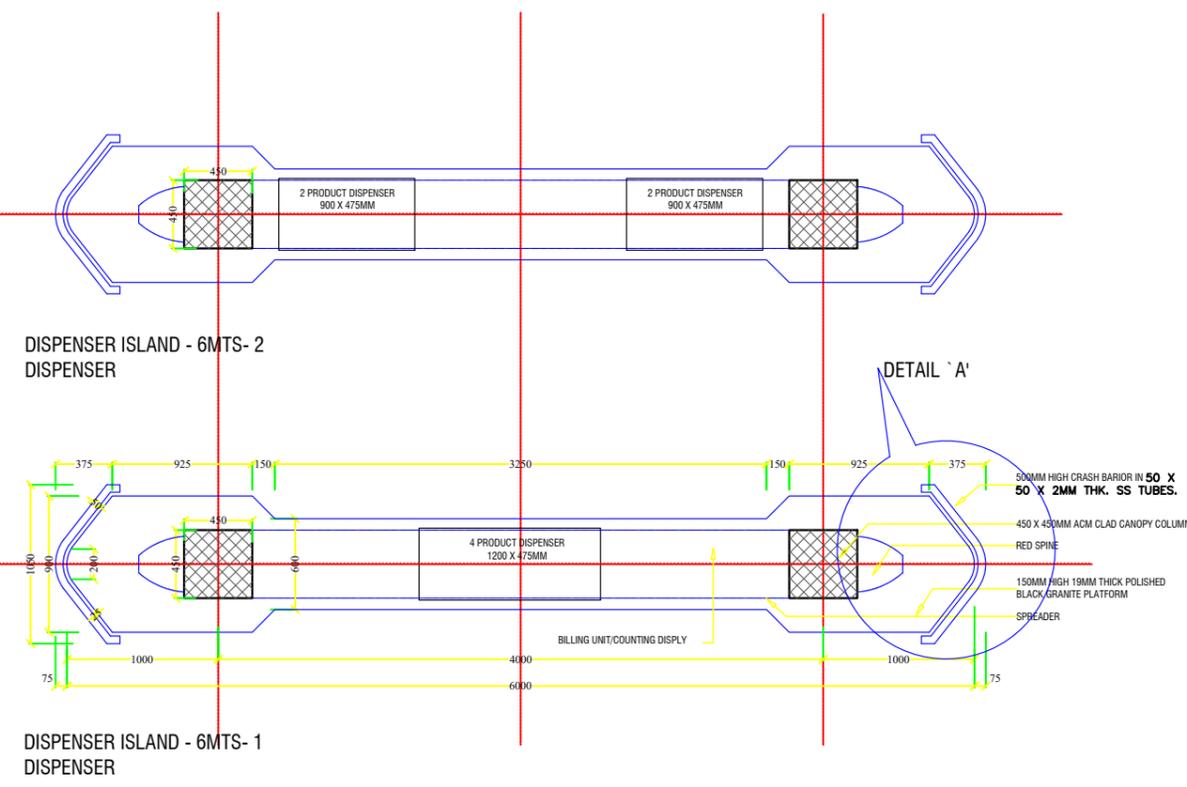
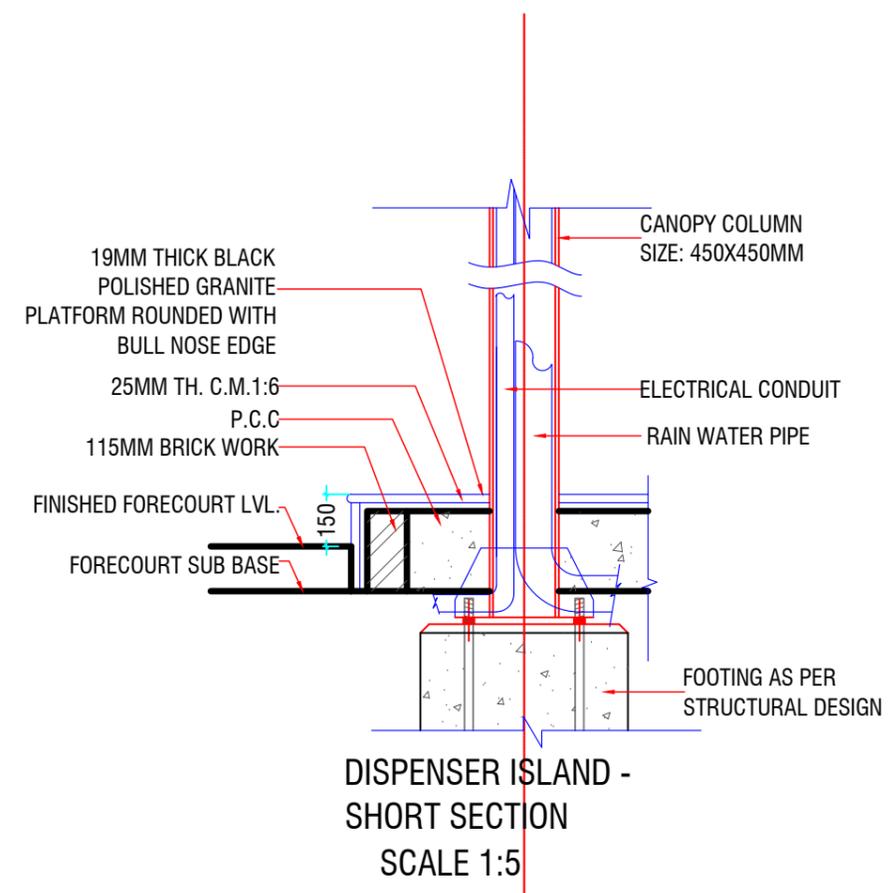
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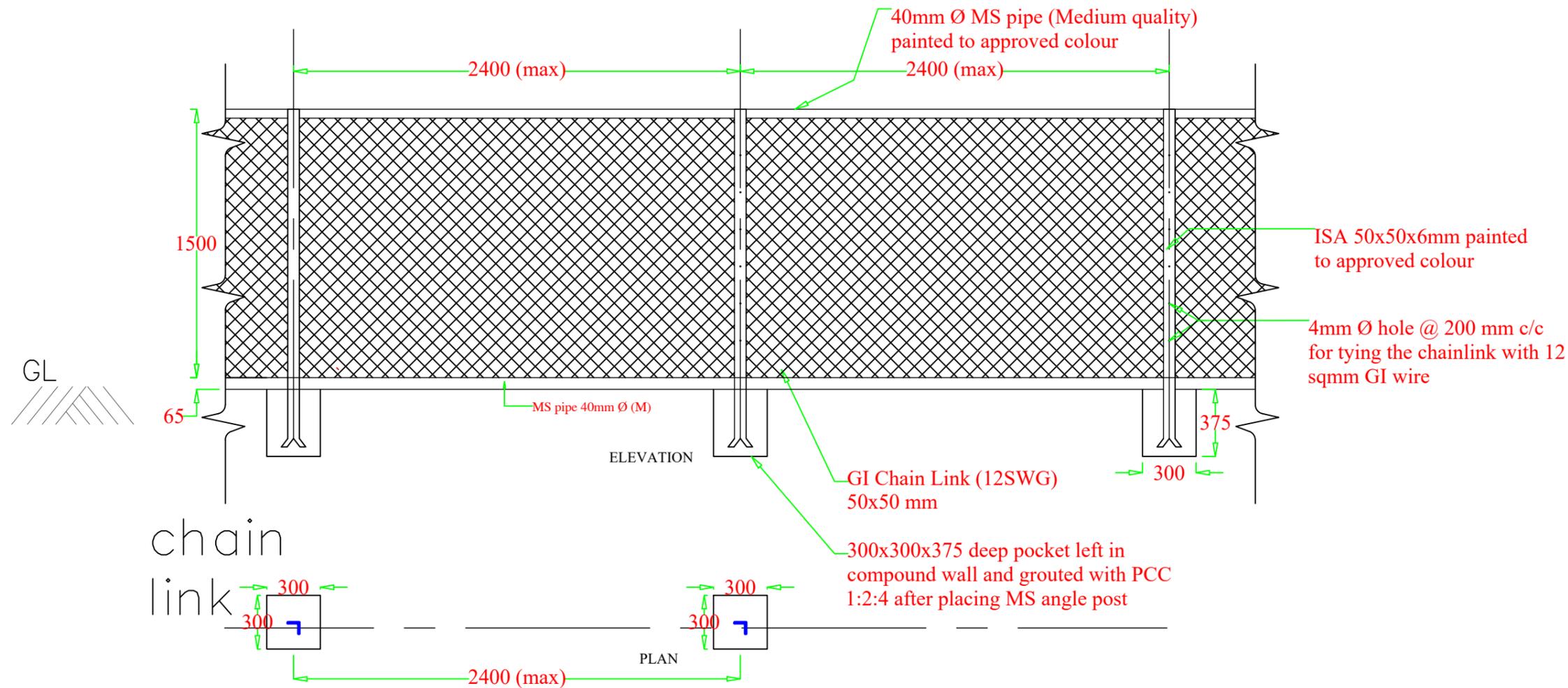
NORTH



GENERAL NOTE:

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PROJECT:

TITLE: FUEL RETAIL OUTLET
LOCATION: DAMPHU, TSIRANG
OWNER: STCBL
PLOT ID: L18U-03
CERTIFICATE NO: TSI-256-5
FLOORS: G+1 STRUCTURE



OWNER SIGNATURE

DESIGNED BY:
 SUGAN PRADHAN
 (GENERAL MANAGER, PETROLEUM DIVISION)
 CIVIL ENGINEER
 STCBL, THIMPHU

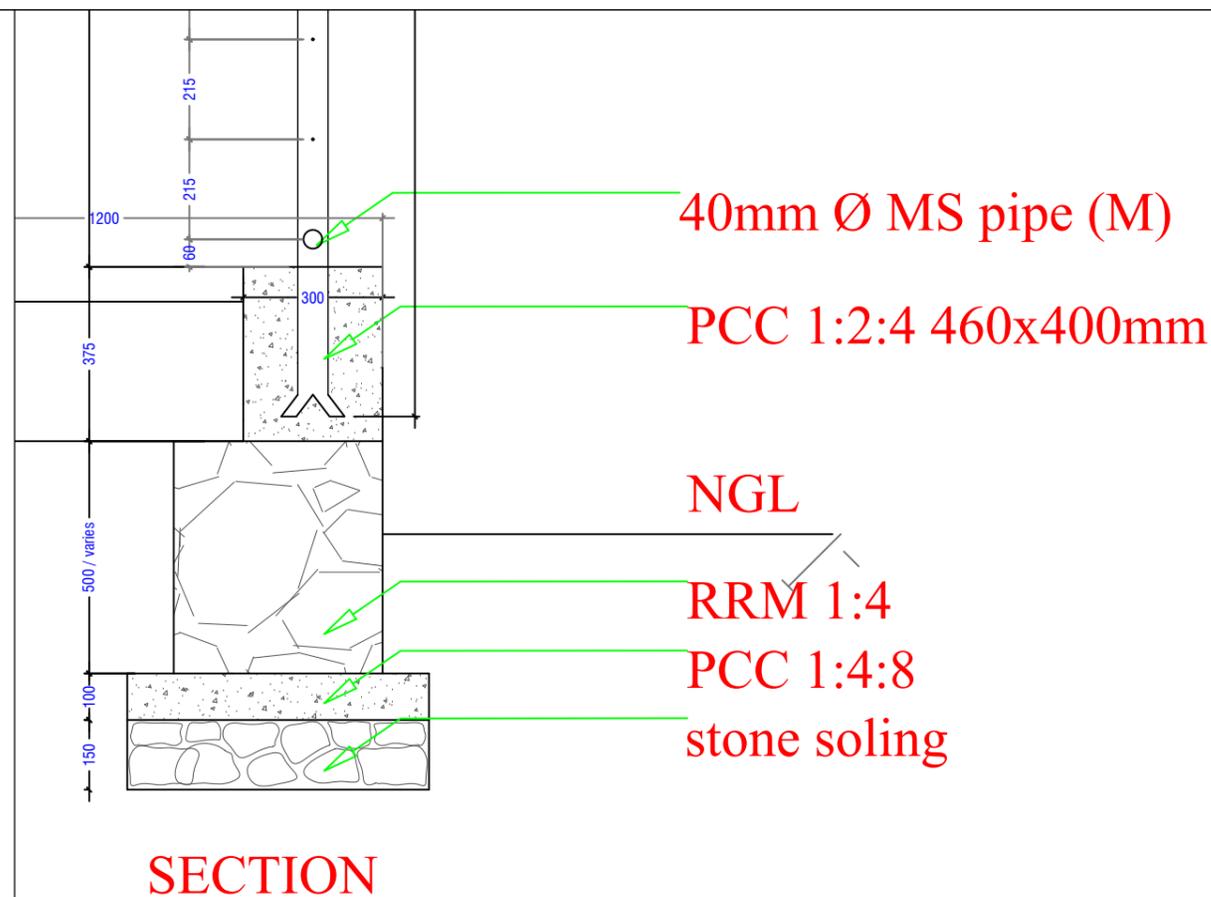
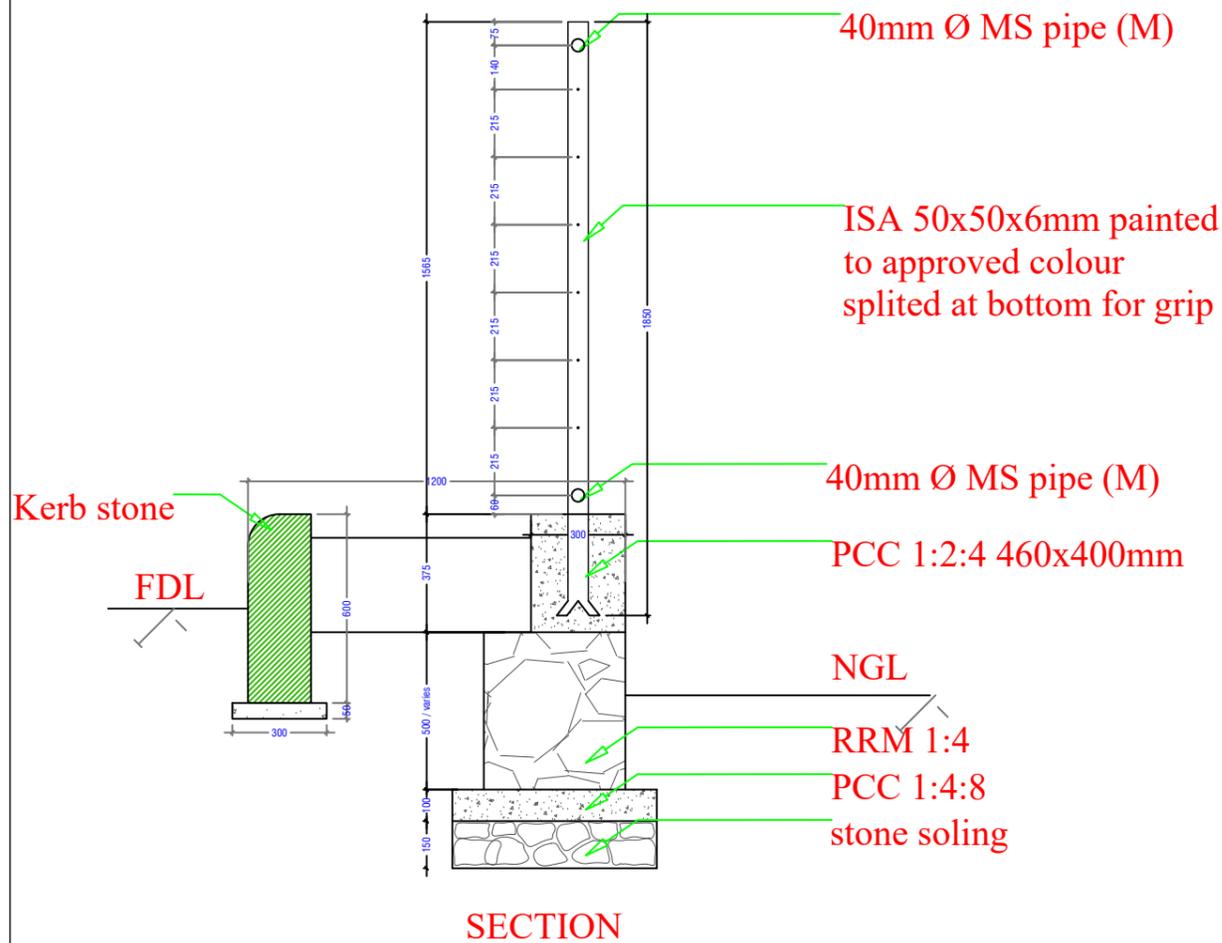
DRAWING TITLE: FENCING DETAILS
STRUCTURAL DRAWING

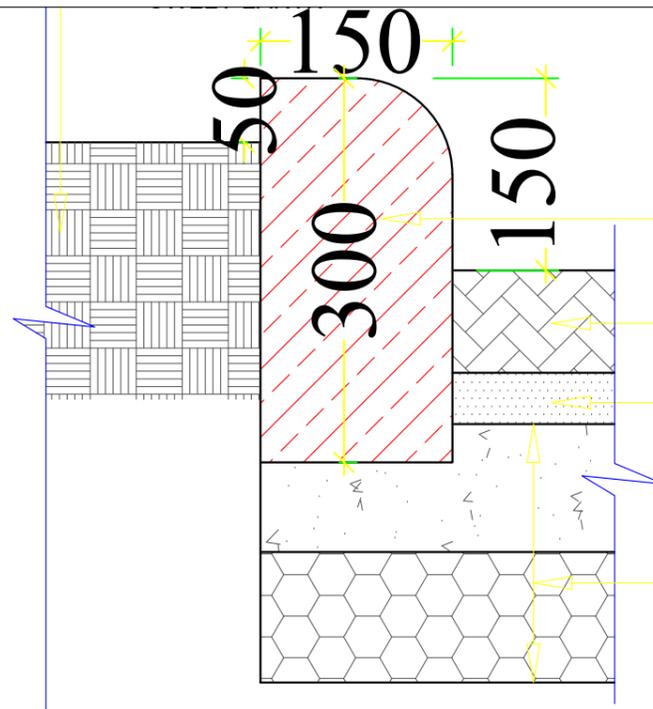
DATE: APRIL 2021
SCALE: NTS
DRAWING SHEET NO : ST/28

REVISION SUFFIX NORTH

GENERAL NOTE:

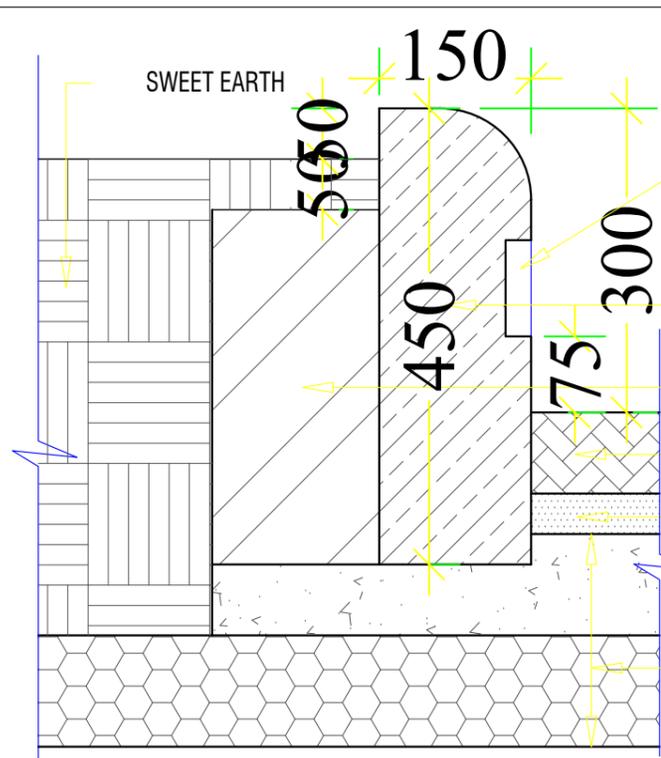
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KERB STONE DETAIL AROUND

TYPICAL DETAIL 'C'
SCALE 1:50



KERB STONE DETAIL AROUND (D) AREA

TYPICAL DETAIL 'D'
SCALE 1:50

CAVITY WITH RETROREFLECTIVE RED COLOR PAINT AT EVERY 1MT. (SIZE: 115X95X40)

PRECAST CONCRETE KERB STONE

230MM BRICK WORK

80MM THK. WEDGE WOOD UNIPAVER BLOCK

40MM THK. SAND BED

SOILING AS/STRUCUTURE

PROJECT:

TITLE: FUEL RETAIL OUTLET
LOCATION: DAMPHU, TSIRANG
OWNER: STCBL
PLOT ID: L18U-03
CERTIFICATE NO: TSI-256-5
FLOORS: G+1 STRUCTURE



OWNER SIGNATURE

DESIGNED BY:

SUGAN PRADHAN
(GENERAL MANAGER, PETROLEUM DIVISION)
CIVIL ENGINEER
STCBL, THIMPHU

DRAWING TITLE: KERB STONE & CHAMBER

STRUCTURAL DRAWING

DATE: APRIL 2021

SCALE: NTS

DRAWING

SHEET NO : ST/29

REVISION SUFFIX

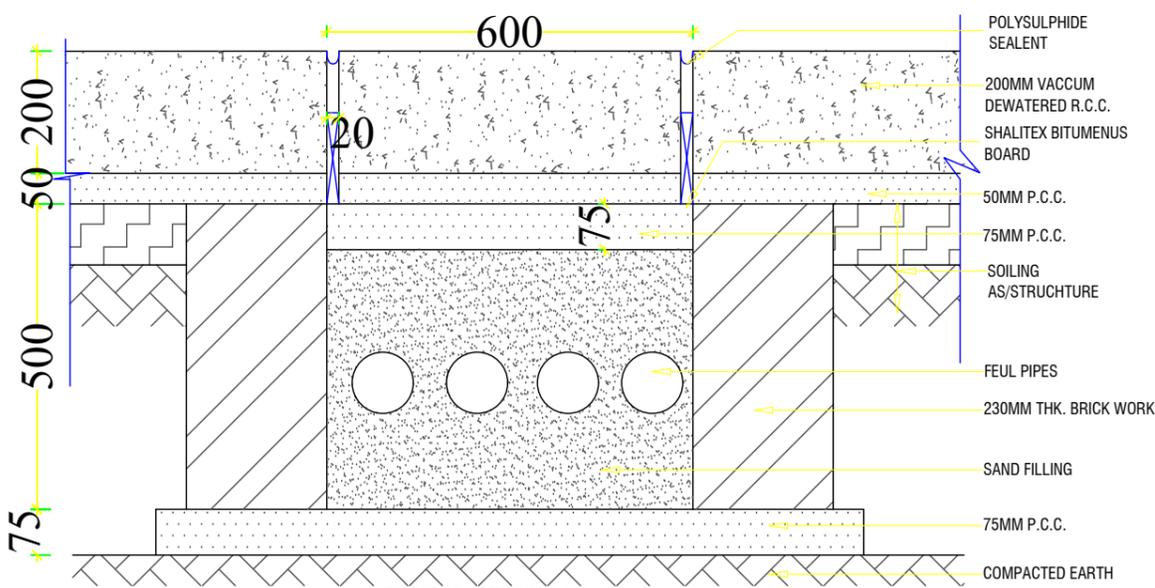
□ □ □ □ □

NORTH

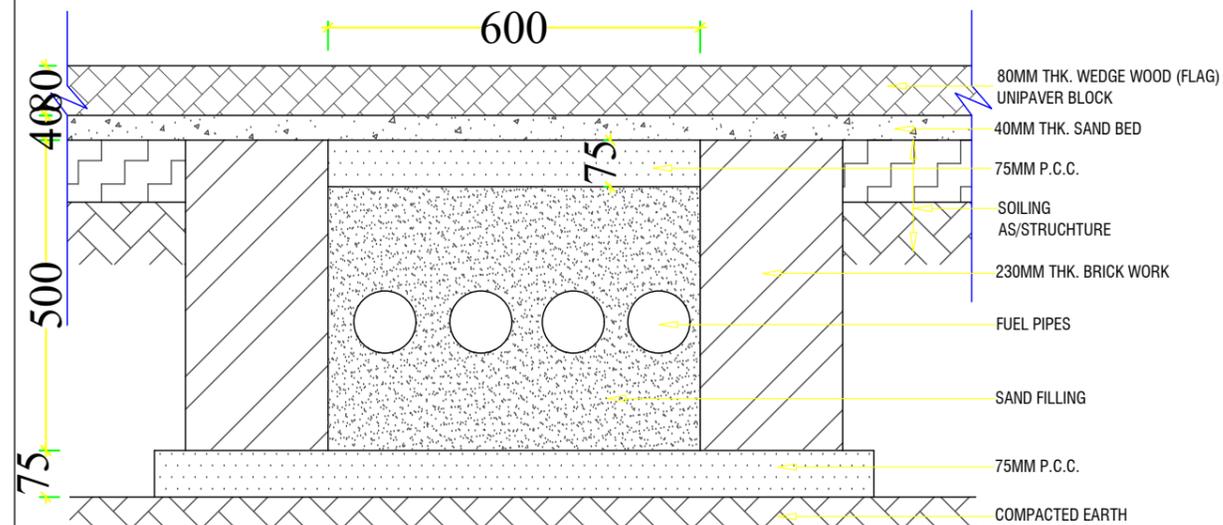


GENERAL NOTE:

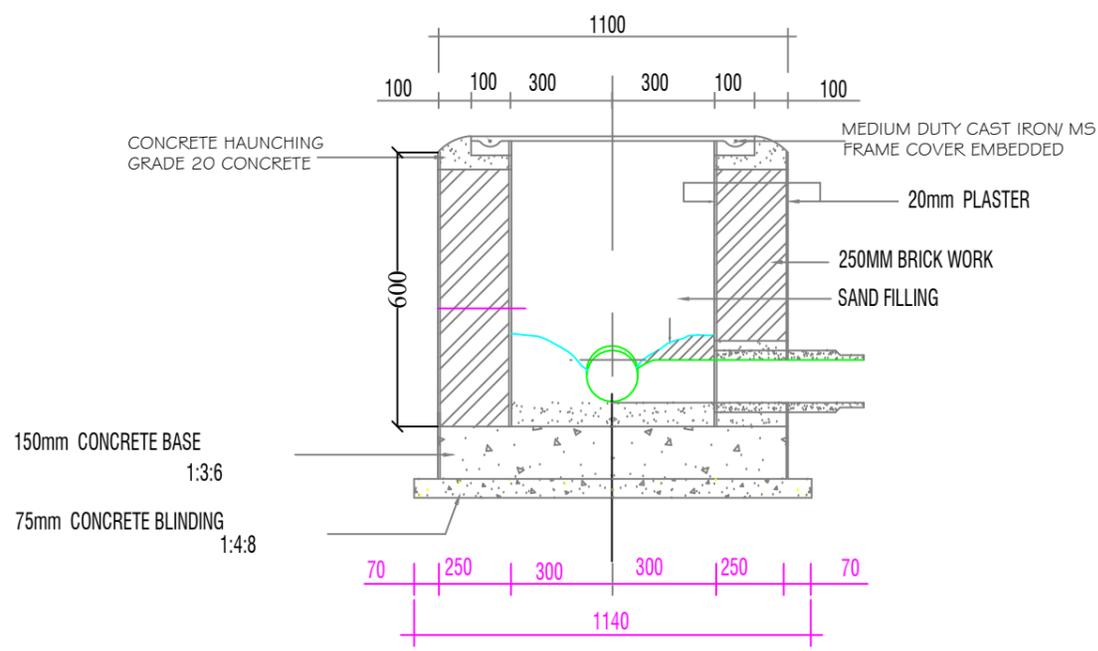
- ALL DIMENSIONS ARE IN METERS (FEET) UNLESS SPECIFIED OTHERWISE.
- ALL DIMENSIONS MEASURE UNFINISHED SURFACES UNLESS SPECIFIED OTHERWISE.
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TYPICAL DETAIL 'A A'
SCALE 1:50



TYPICAL DETAIL 'B B'
SCALE 1:50



**600x600 I.C DETAILS
(FOR DEPTHS UP TO 1200 DEPTH)
SECTION A-A**

PROJECT:

TITLE: FUEL RETAIL OUTLET
LOCATION: DAMPHU, TSIRANG
OWNER: STCBL
PLOT ID: L18U-03
CERTIFICATE NO: TSI-256-5
FLOORS: G+1 STRUCTURE



OWNER SIGNATURE

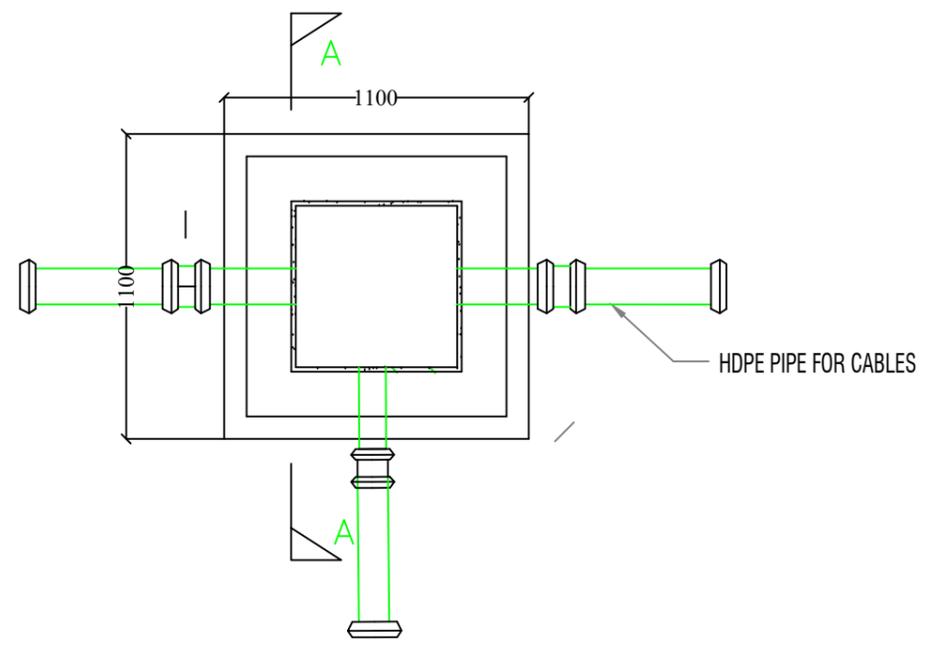
DESIGNED BY:
SUGAN PRADHAN
 (GENERAL MANAGER, PETROLEUM
 DIVISION)
 CIVIL ENGINEER
 STCBL, THIMPHU
DRAWING TITLE: CABLE CHAMBER
STRUCTURAL DRAWING

DATE: APRIL 2021
SCALE: NTS
DRAWING SHEET NO : ST/30

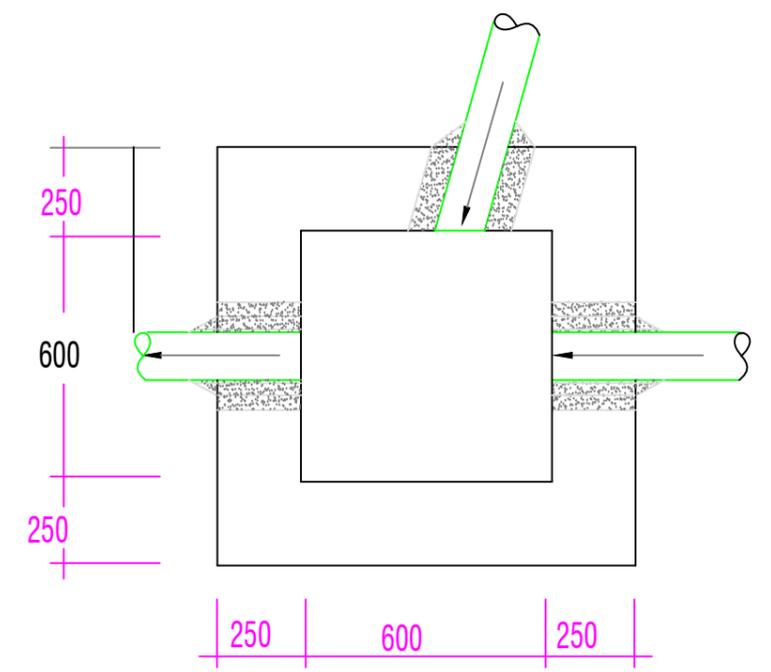
REVISION SUFFIX	NORTH
□ □ □ □ □	

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TYPICAL CONN. DETAIL (FOR 600x600mm CABLE CHAMBER)



PROJECT:

TITLE: FUEL RETAIL OUTLET
LOCATION: DAMPHU, TSIRANG
OWNER: STCBL
PLOT ID: L18U-03
CERTIFICATE NO: TSI-256-5
FLOORS: G+1 STRUCTURE



OWNER SIGNATURE

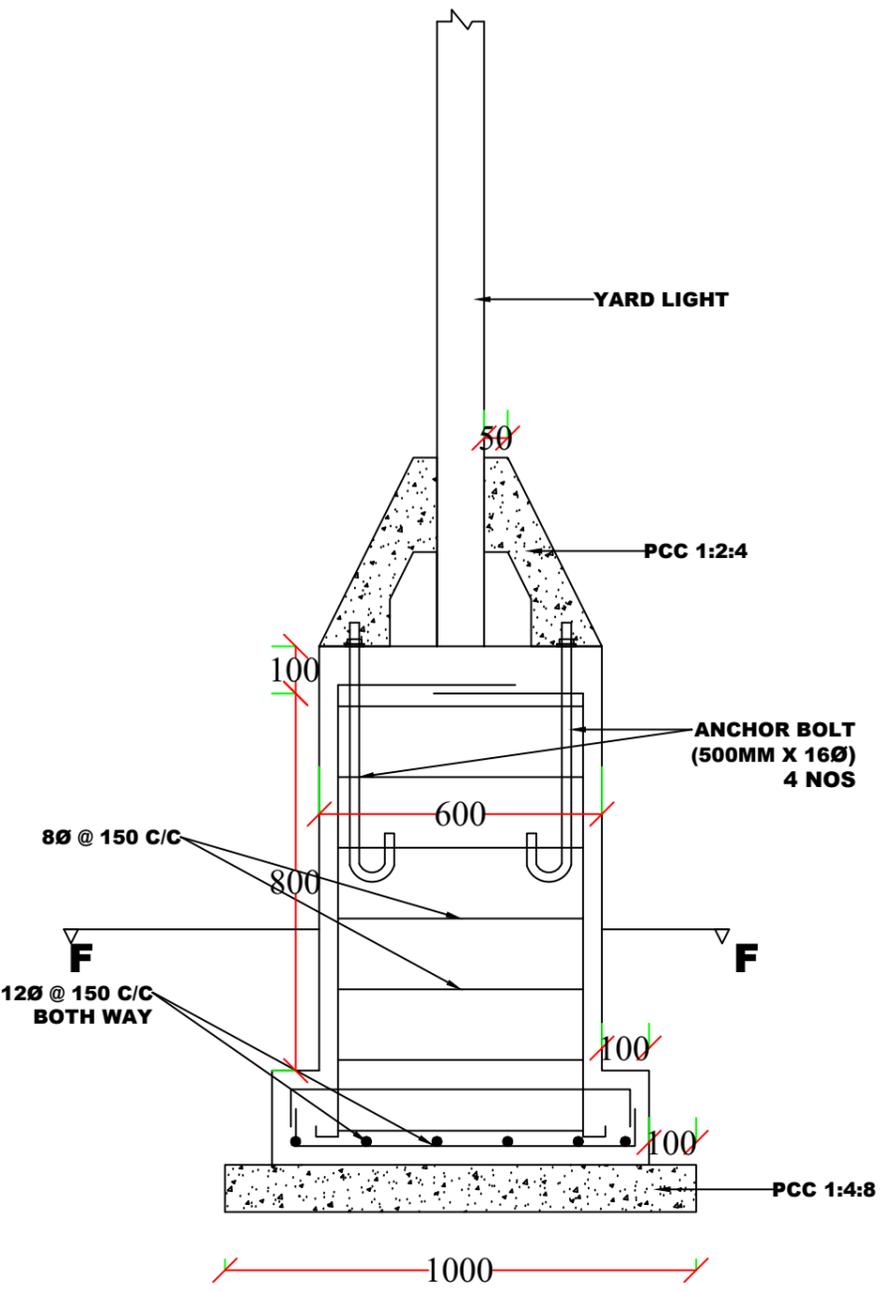
DESIGNED BY:
SUGAN PRADHAN
 (GENERAL MANAGER, PETROLEUM DIVISION)
 CIVIL ENGINEER
 STCBL, THIMPHU

DRAWING TITLE: YARD LIGHT DETAILS
STRUCTURAL DRAWING

DATE: APRIL 2021
SCALE: NTS
DRAWING SHEET NO : ST/31

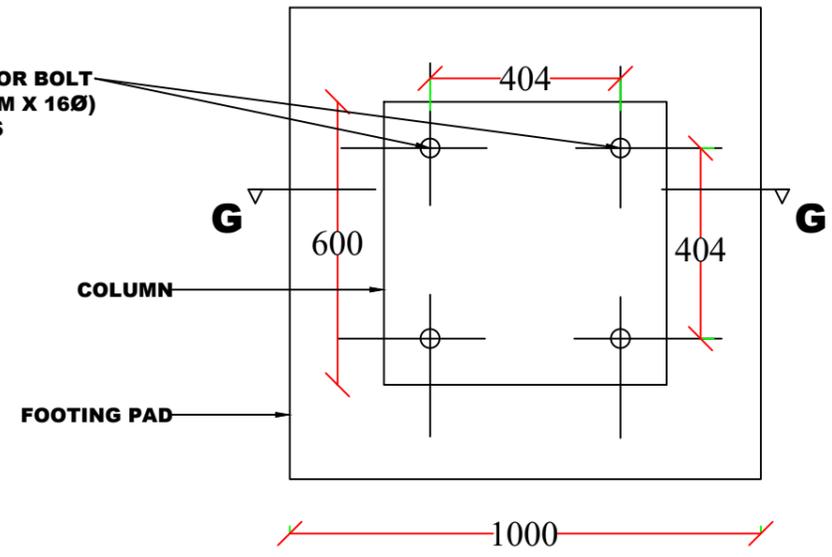
REVISION SUFFIX	NORTH
□ □ □ □ □	

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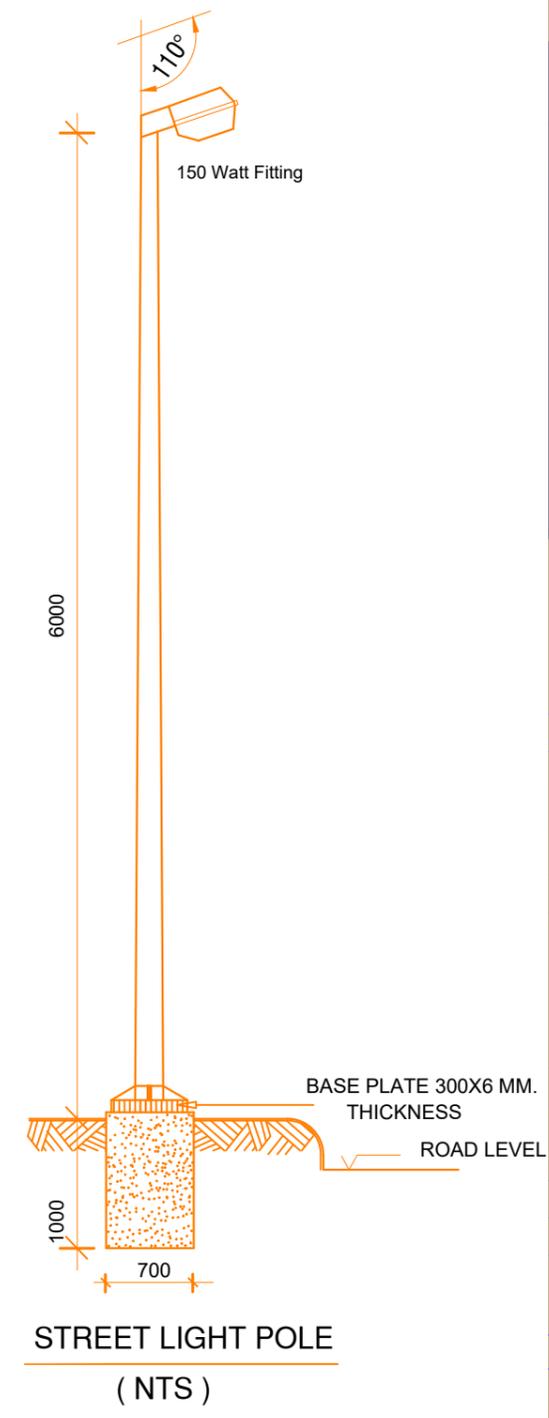


SECTION G-G

YARD LIGHT FOUNDATION



COLUMN SECTION F-F



STREET LIGHT POLE (NTS)

PROJECT:

TITLE: FUEL RETAIL OUTLET
LOCATION: DAMPHU, TSIRANG
OWNER: STCBL
PLOT ID: L18U-03
CERTIFICATE NO: TSI-256-5
FLOORS: G+1 STRUCTURE



OWNER SIGNATURE

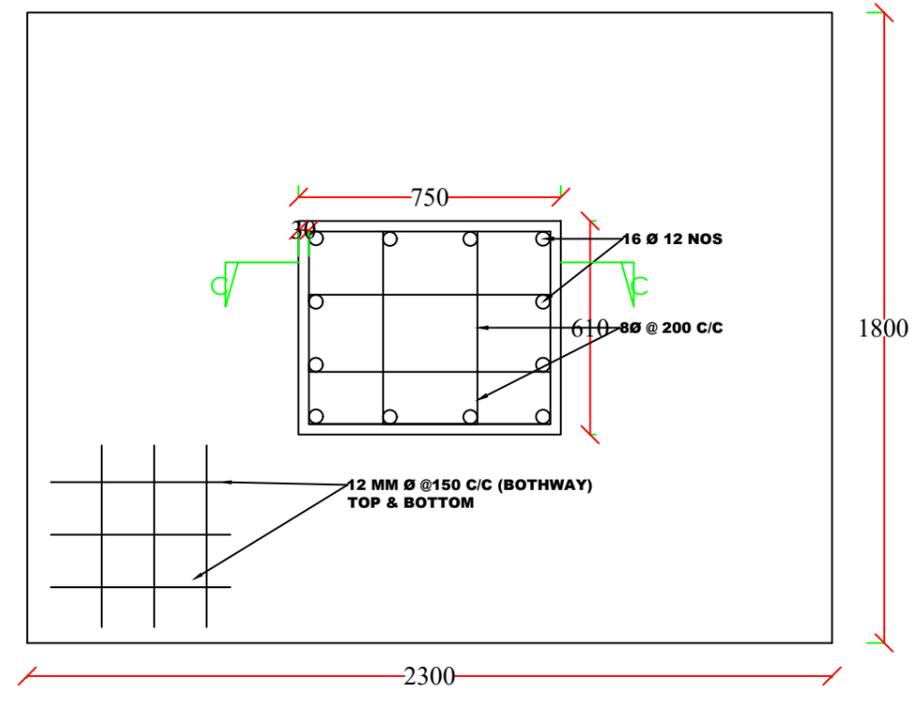
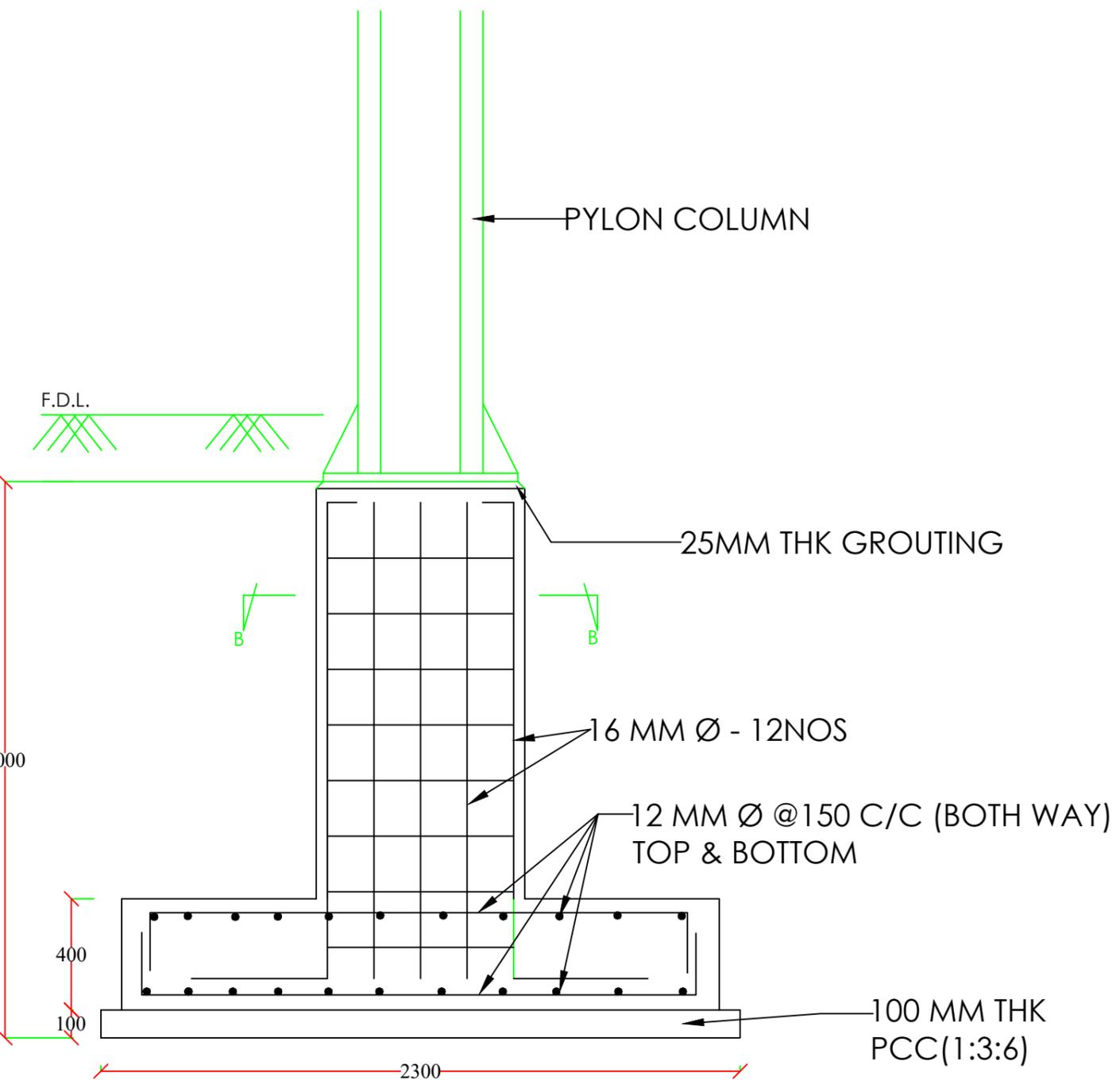
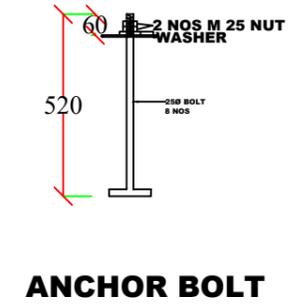
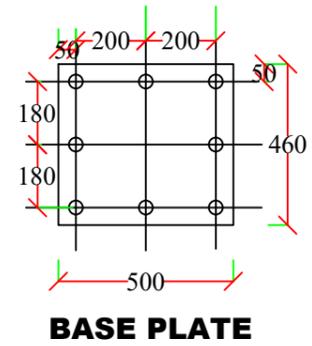
DESIGNED BY:
SUGAN PRADHAN
 (GENERAL MANAGER, PETROLEUM DIVISION)
 CIVIL ENGINEER
 STCBL, THIMPHU
DRAWING TITLE: PLYON FOUNDATION
STRUCTURAL DRAWING

DATE: APRIL 2021
SCALE: NTS
DRAWING SHEET NO : ST/32

REVISION SUFFIX	NORTH
□ □ □ □ □	

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PYLON FOUNDATION

PROJECT:
 TITLE: FUEL RETAIL OUTLET
 LOCATION: DAMPHU, TSIRANG
 OWNER: STCBL
 PLOT ID: L18U-03
 CERTIFICATE NO: TSI-256-5
 FLOORS: G+1 STRUCTURE



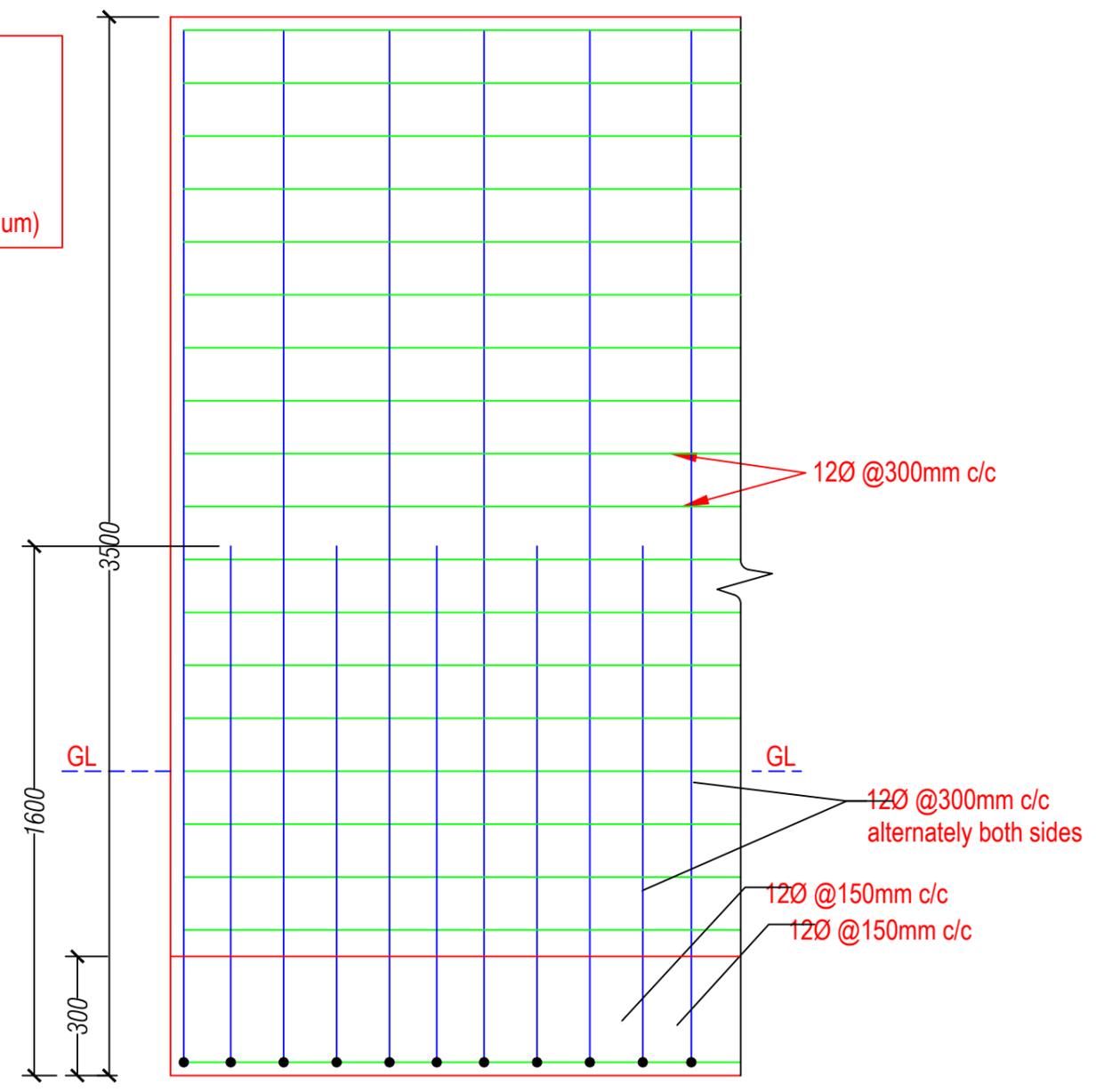
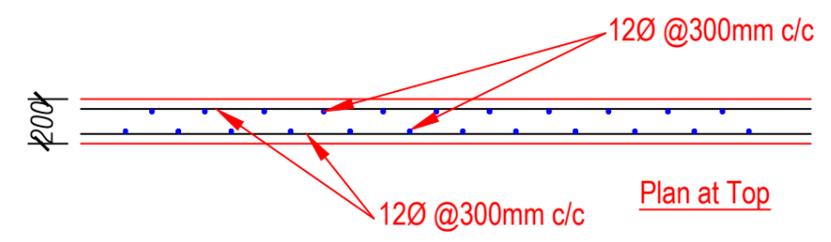
OWNER SIGNATURE

DESIGNED BY:
 SUGAN PRADHAN
 (GENERAL MANAGER, PETROLEUM
 DIVISION)
 CIVIL ENGINEER
 STCBL, THIMPHU
 DRAWING TITLE: RRM WALL
 STRUCTURAL DRAWING

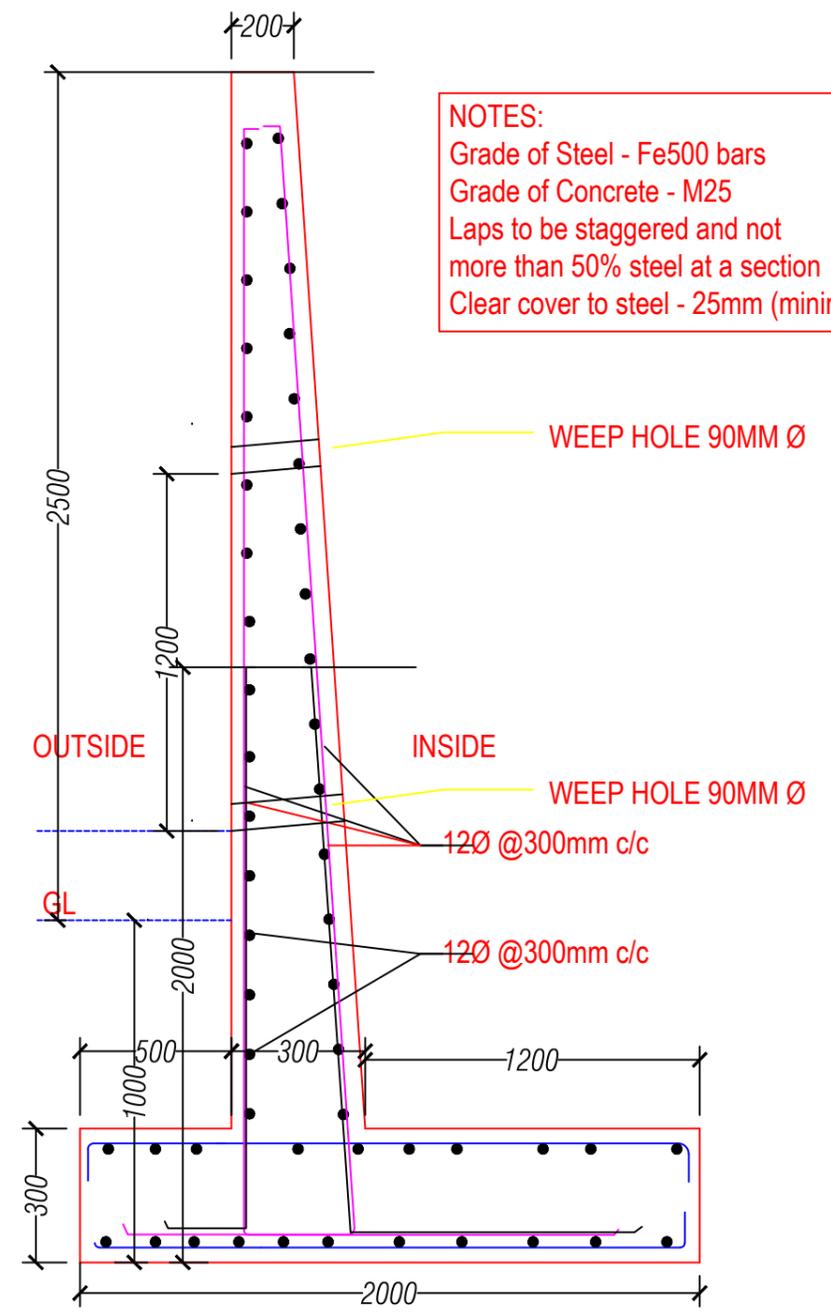
DATE: APRIL 2021
 SCALE: NTS
 DRAWING SHEET NO : ST/32

REVISION SUFFIX	NORTH
□ □ □ □ □	

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NOTES:
 Grade of Steel - Fe500 bars
 Grade of Concrete - M25
 Laps to be staggered and not more than 50% steel at a section
 Clear cover to steel - 25mm (minimum)



RCC wall at section B-B