



A1	PERSPECTIVE
001	scale: NTS

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DISTRICT / CITY / MUNICIPALITY

ARCHITECTURAL

CIVIL / STRUCTURAL

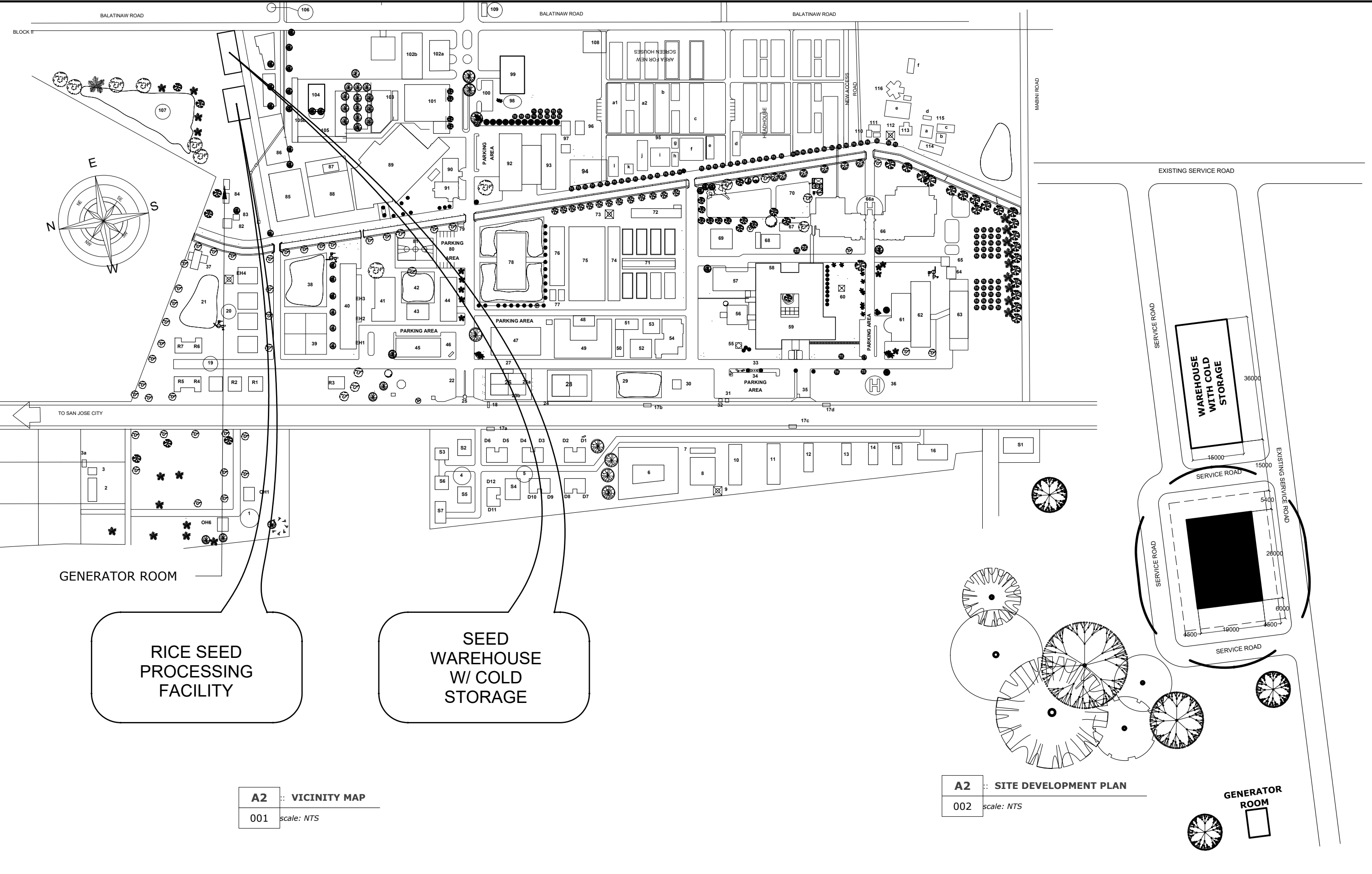
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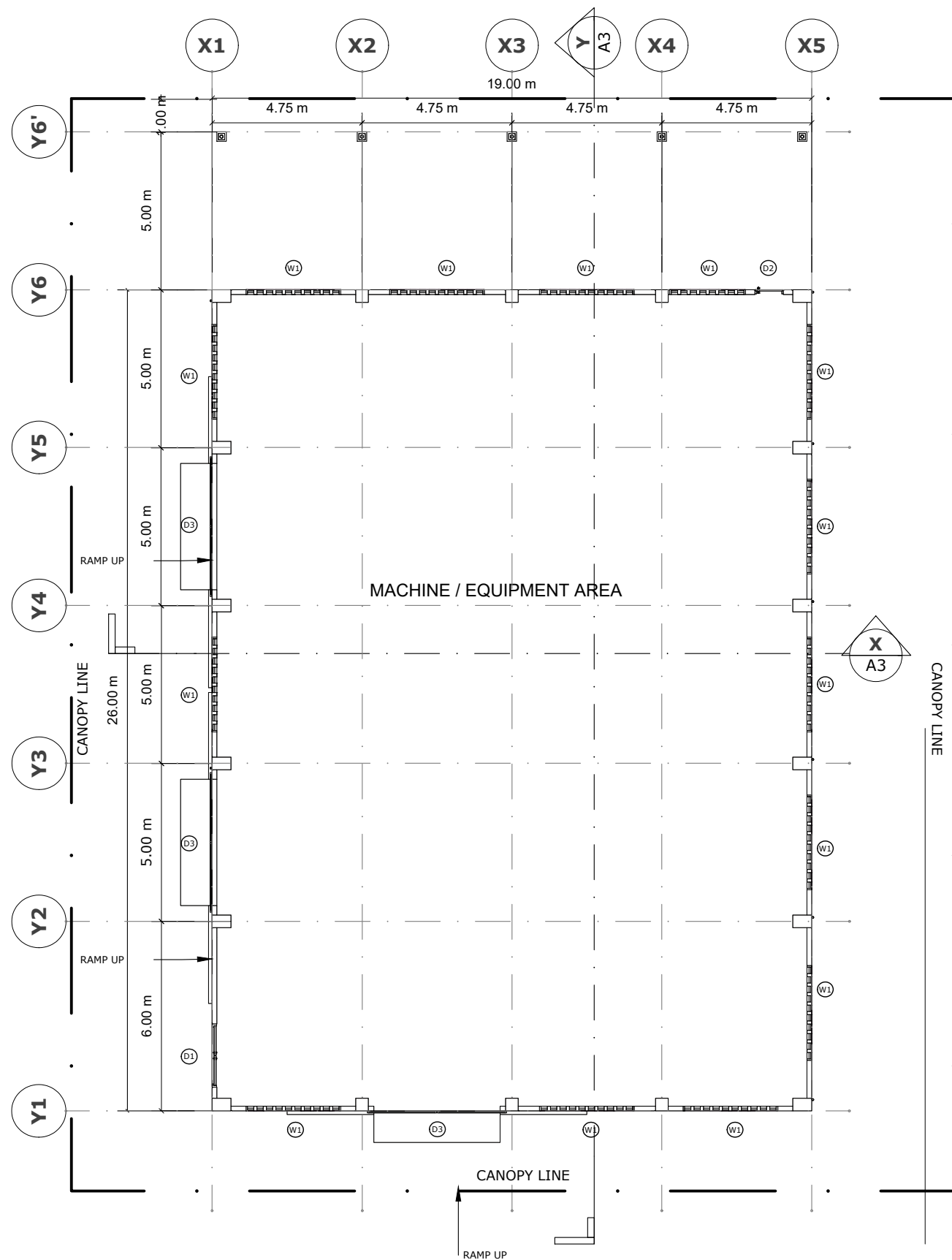
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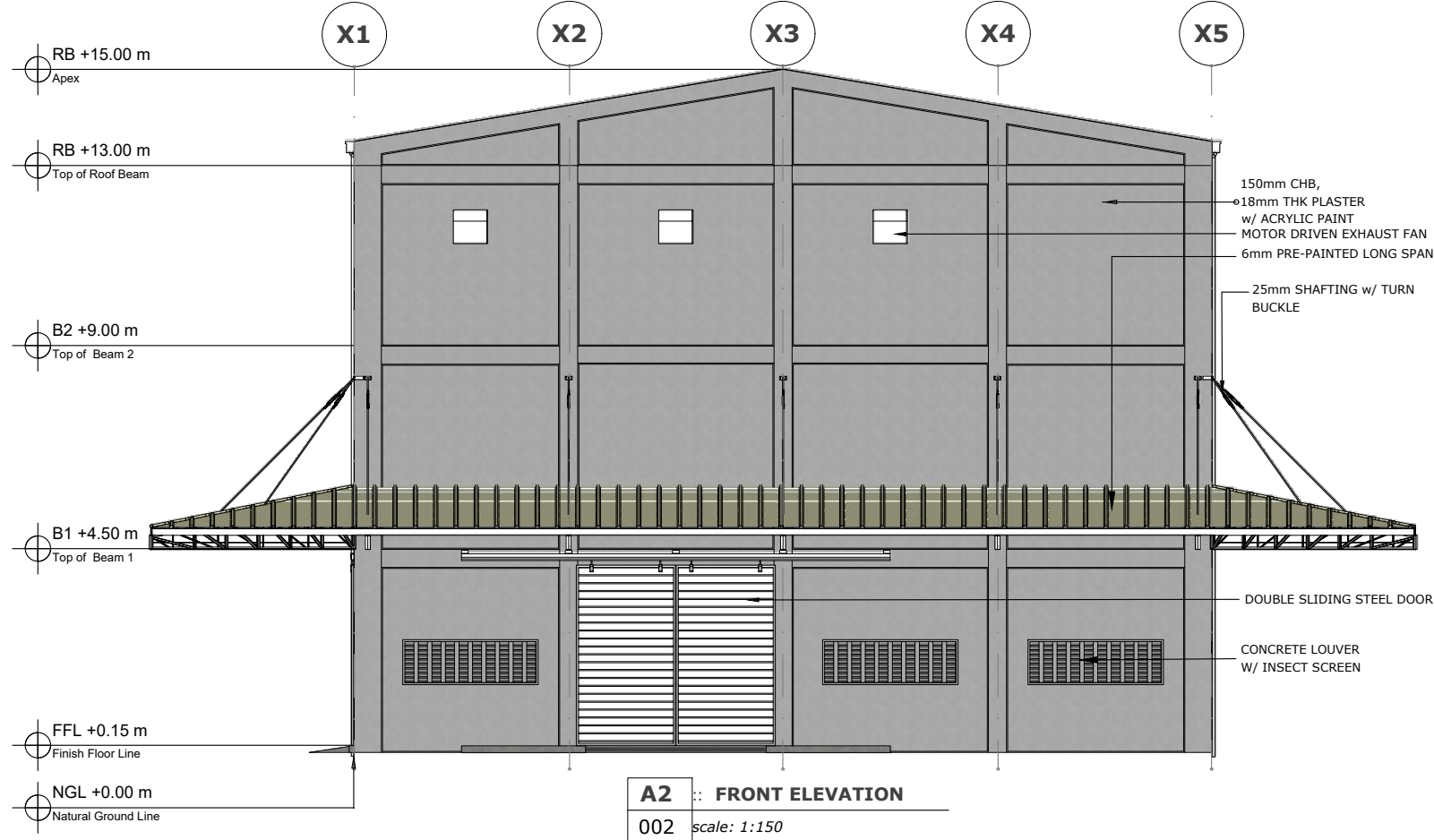
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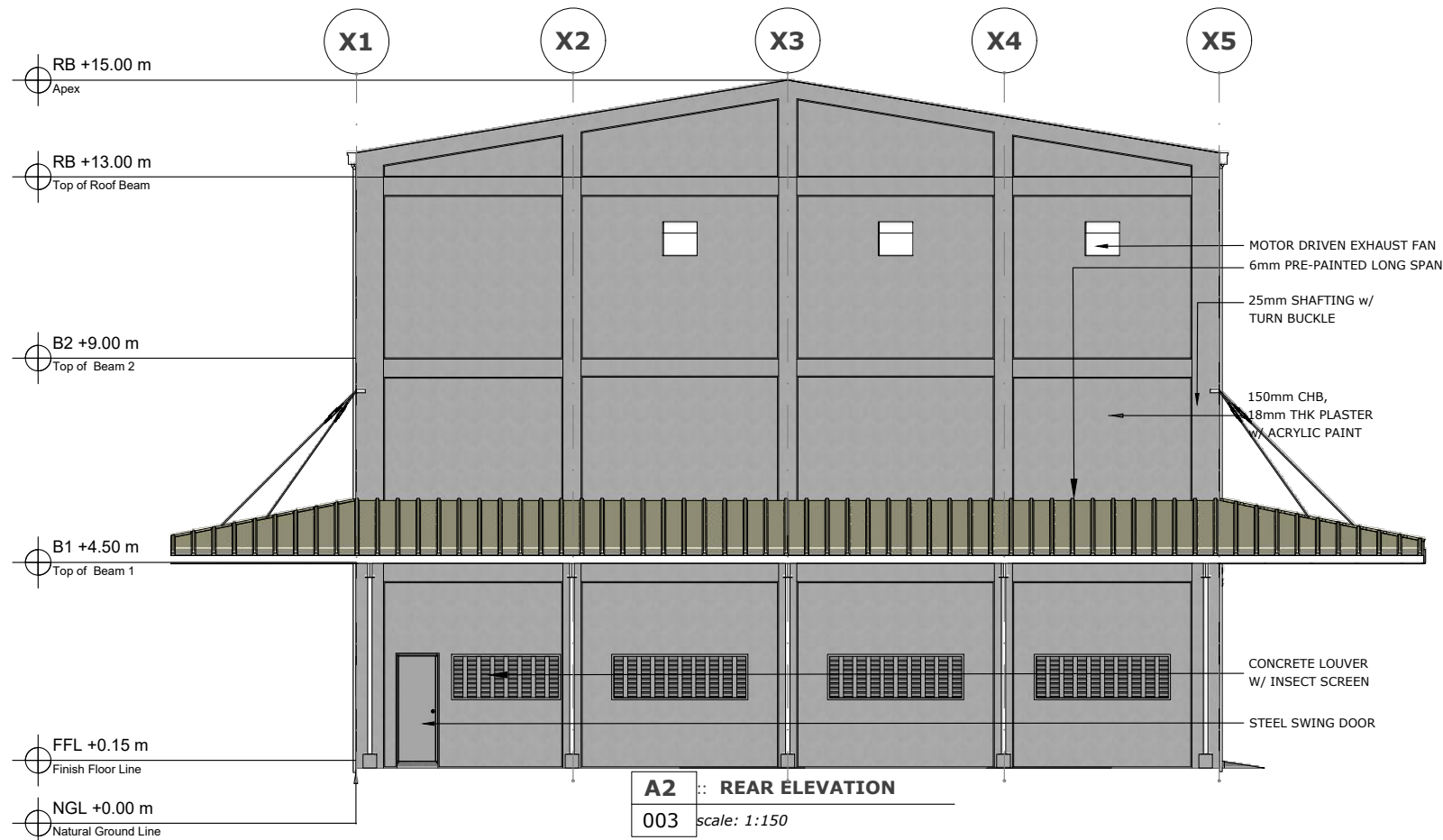
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		RICE SEED PROCESSING FACILITY	Engr. DARYL F. GENERAL Civil Engineer, PPD PHILRICE-CES	Dr. PAULINO S. RAMOS Division Head, REMD PHILRICE	LUIS ALEJANDRE I. TAMANI Division Head, ISD PHILRICE	MR. MYONG JOON KIM Architectural / Engineering Expert GAPI	SOPHIA T. BORJA OIC, DED for ASF PHILRICE	Dr. JOHN C. DE LEON Executive Director PHILRICE	Dr. BYUNG KI LEE Project Manager GAPI	DATE: JULY, 2023	
										CADD BY: NGD	
										DATE: JULY, 2023	
										CHECKED BY: RBB	
								2	23		



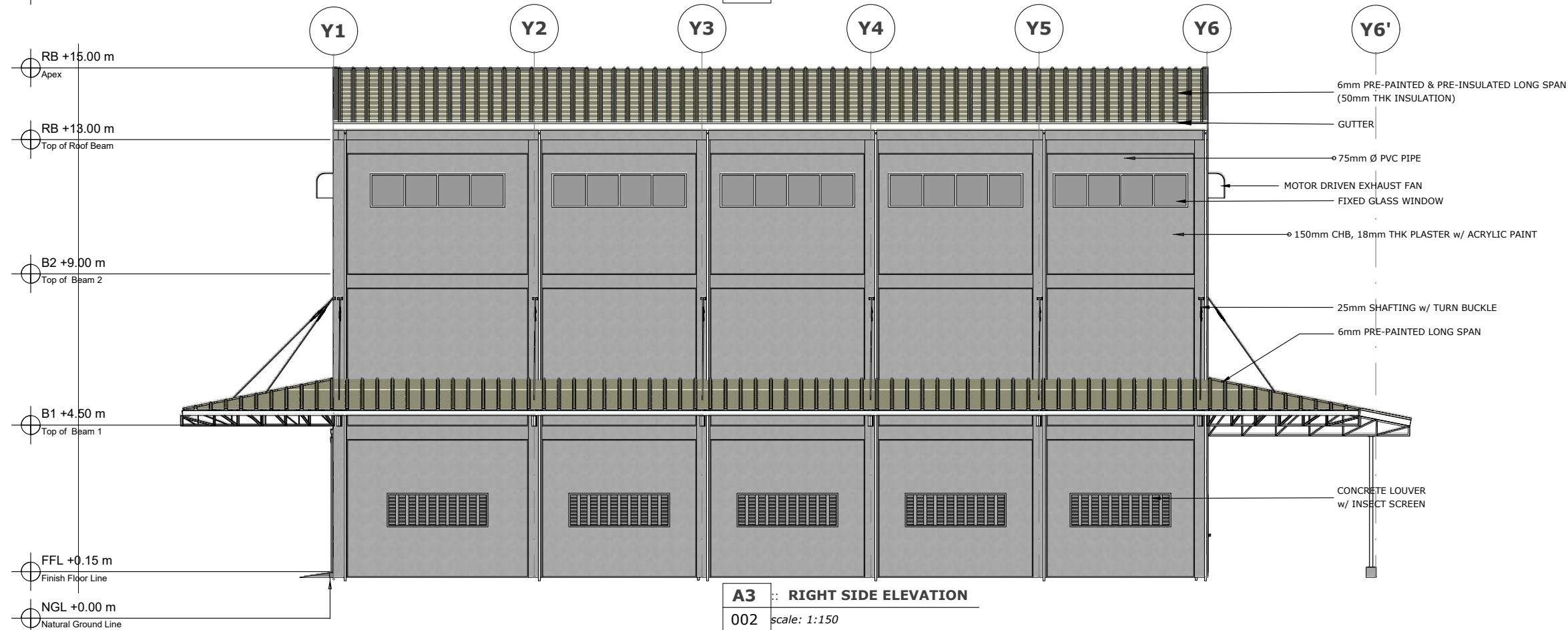
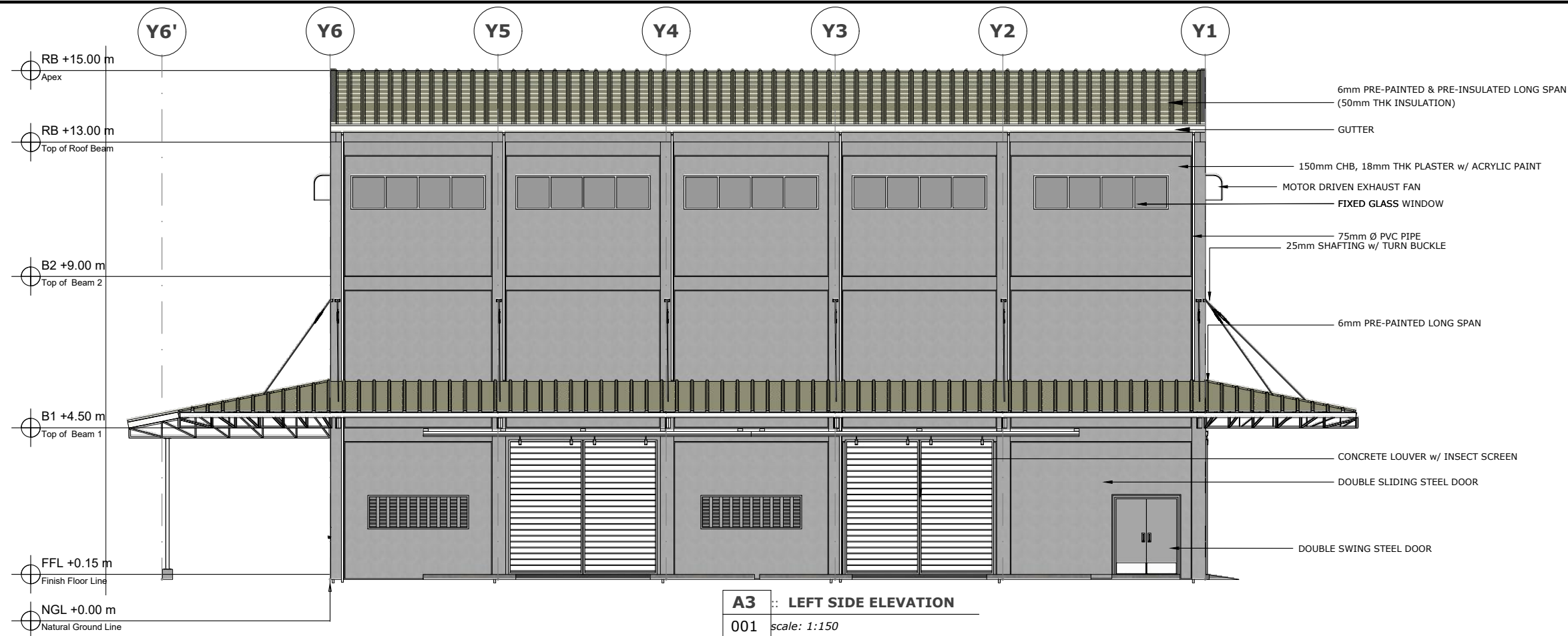
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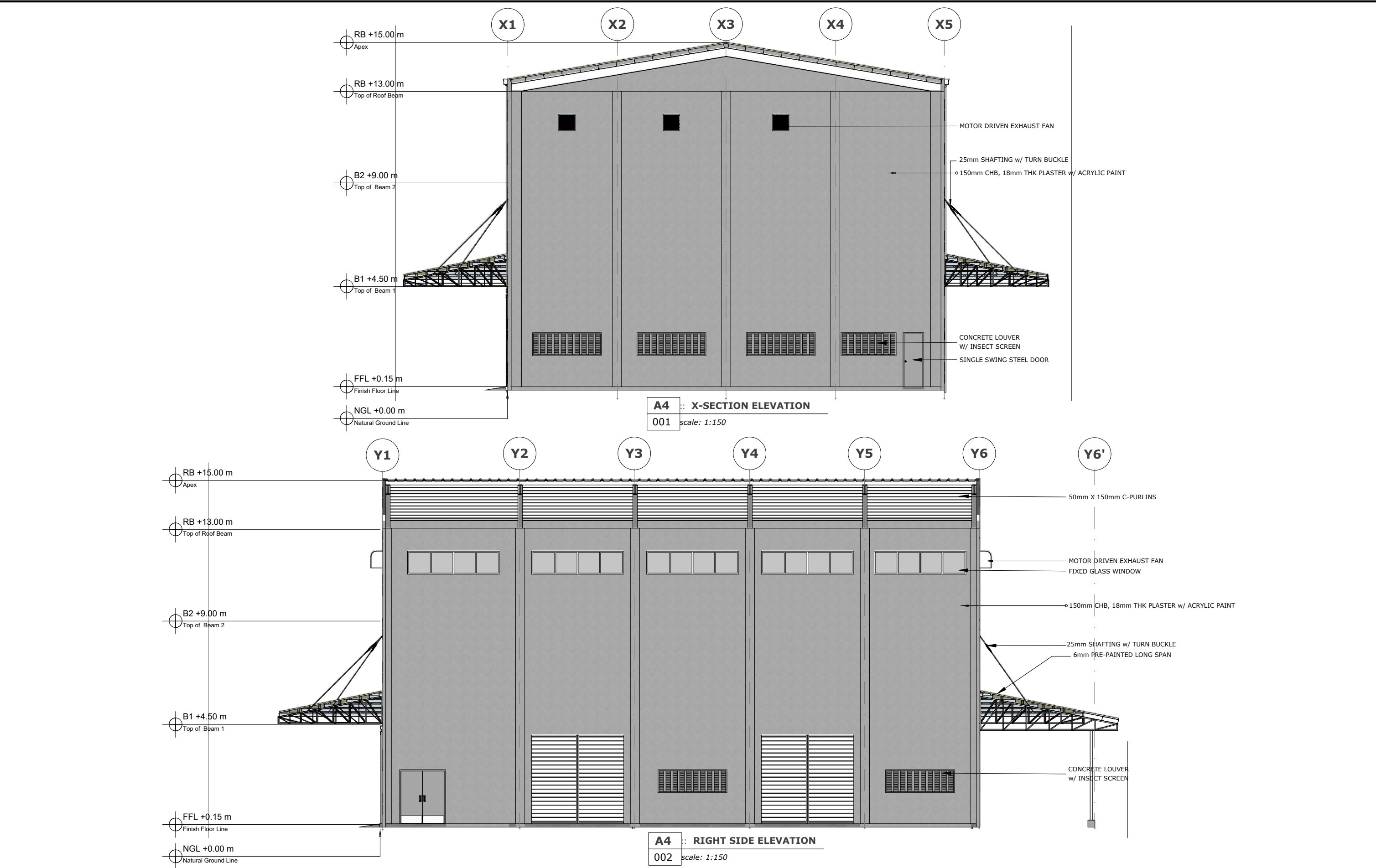


A2 :: FRONT ELEVATION
002 scale: 1:150

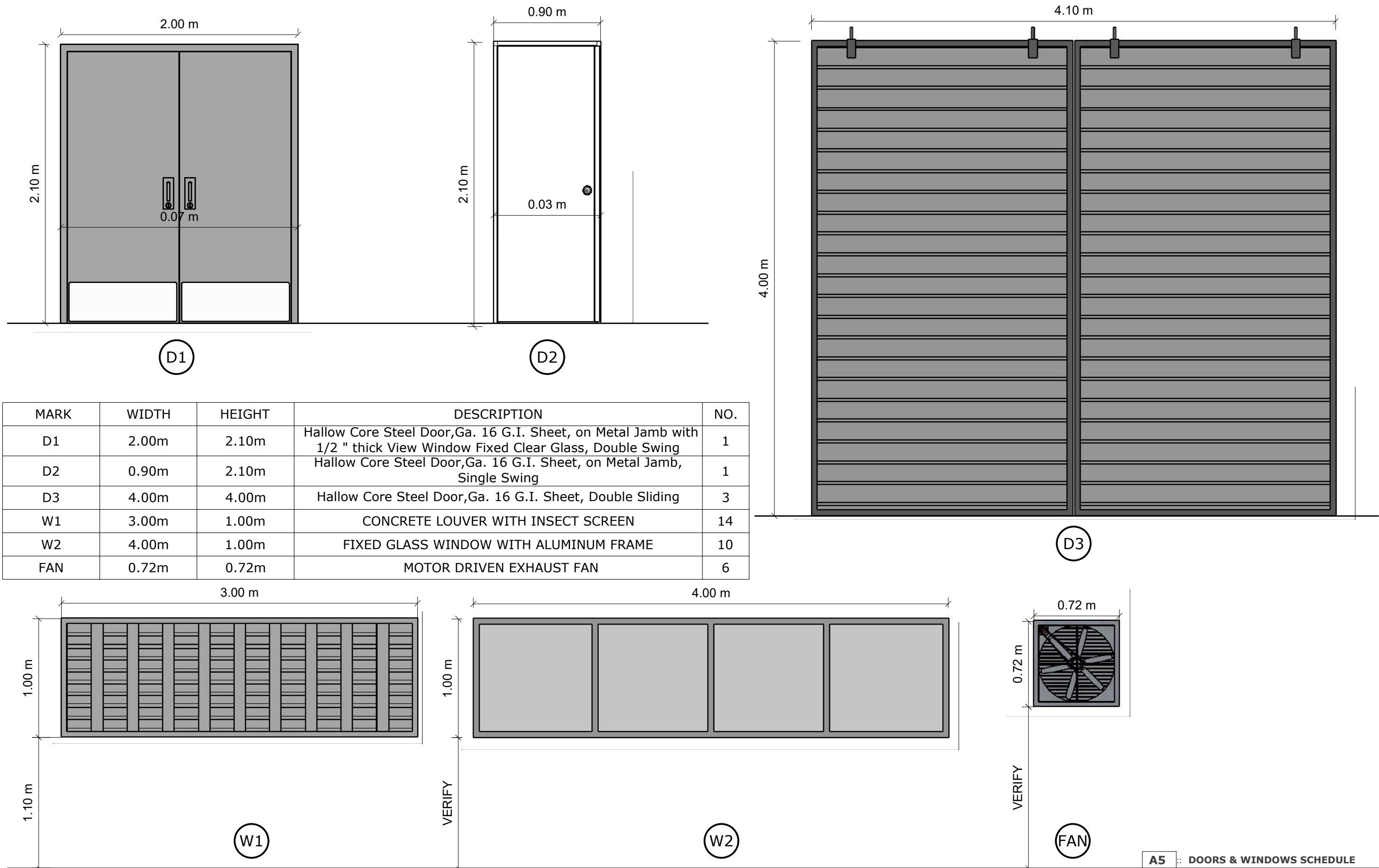


A2 :: REAR ELEVATION
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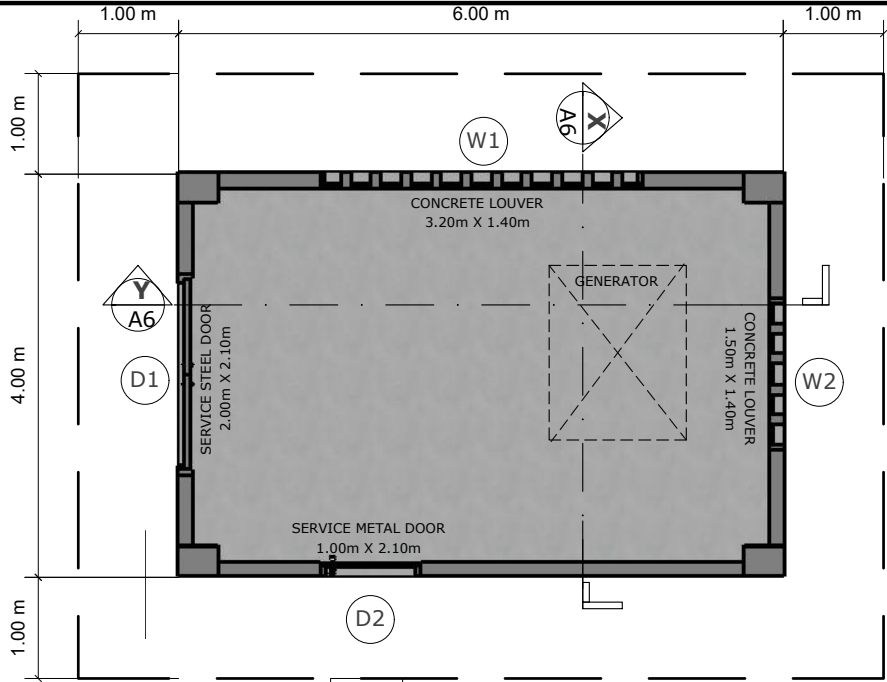




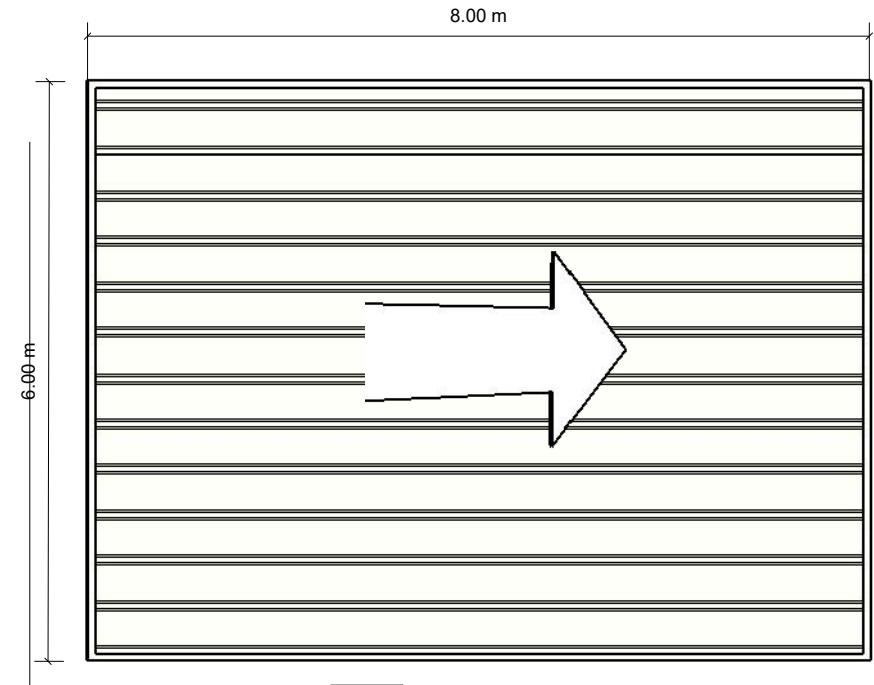
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							CADD BY: NGD		
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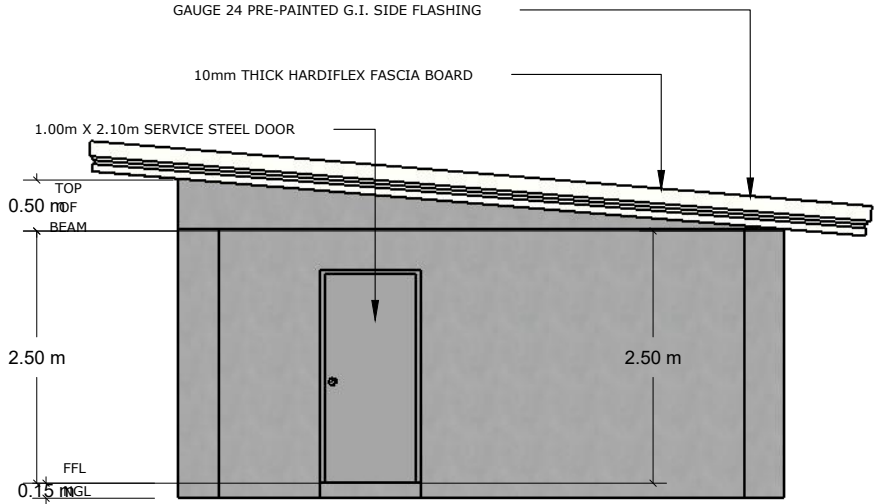
A5 :: DOORS & WINDOWS SCHEDULE
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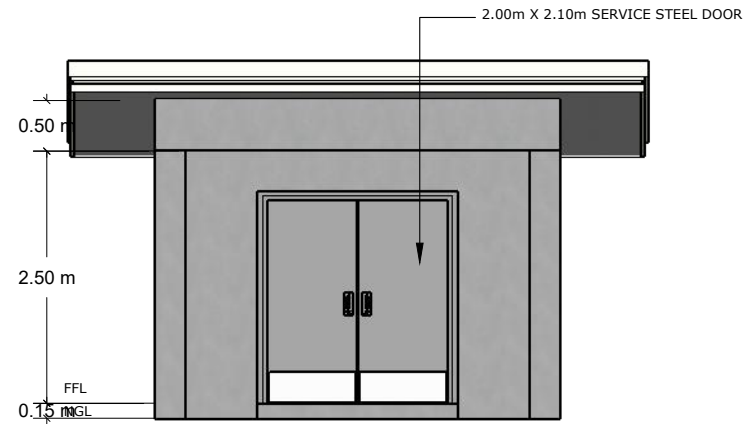
A6 :: FLOOR PLAN
001 scale: 1:75



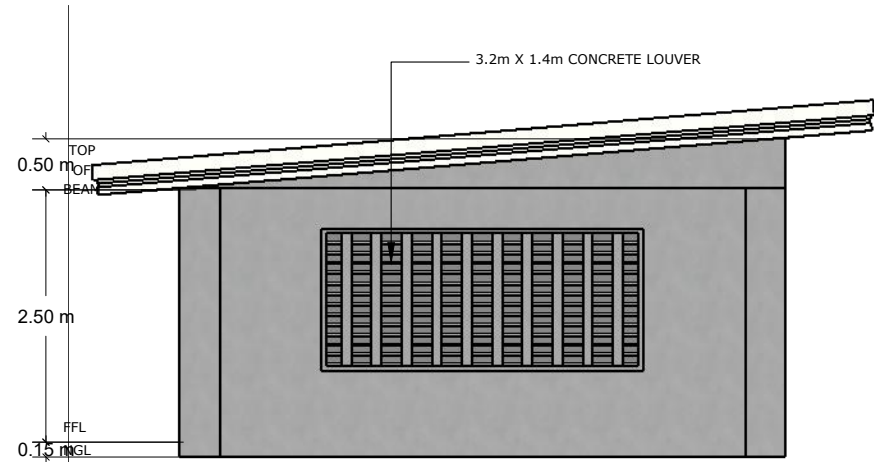
A6 :: ROOF PLAN
006 scale: 1:75



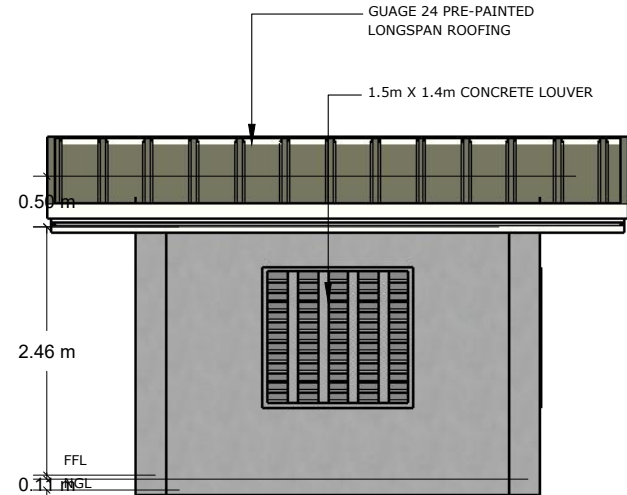
A6 :: FRONT ELEVATION
002 scale: 1:75



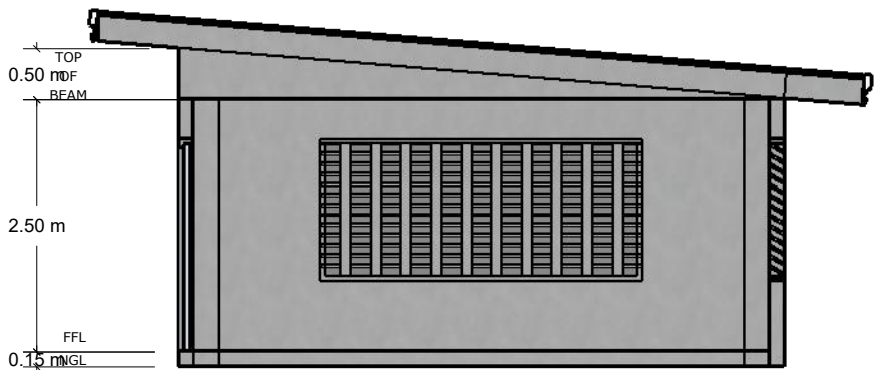
A6 :: LEFT SIDE ELEVATION
003 scale: 1:75



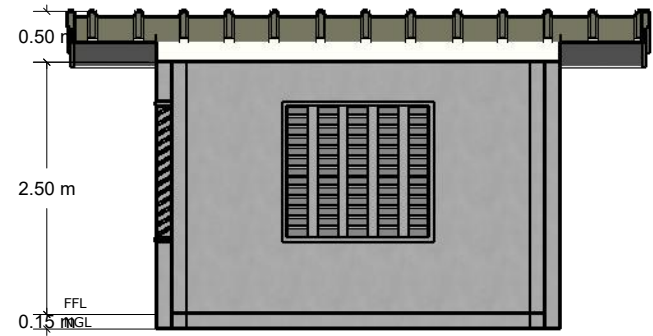
A6 :: REAR ELEVATION
004 scale: 1:75



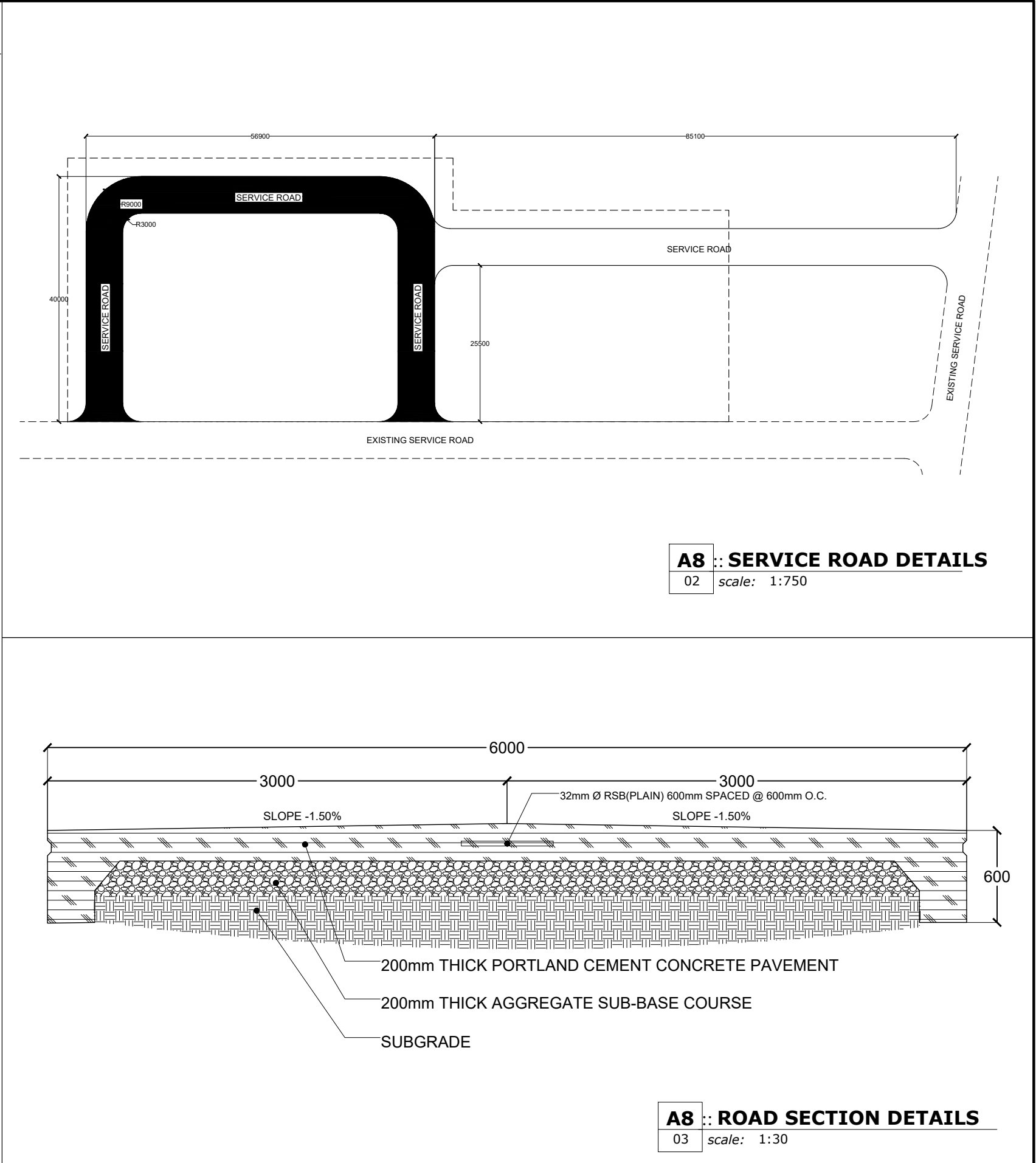
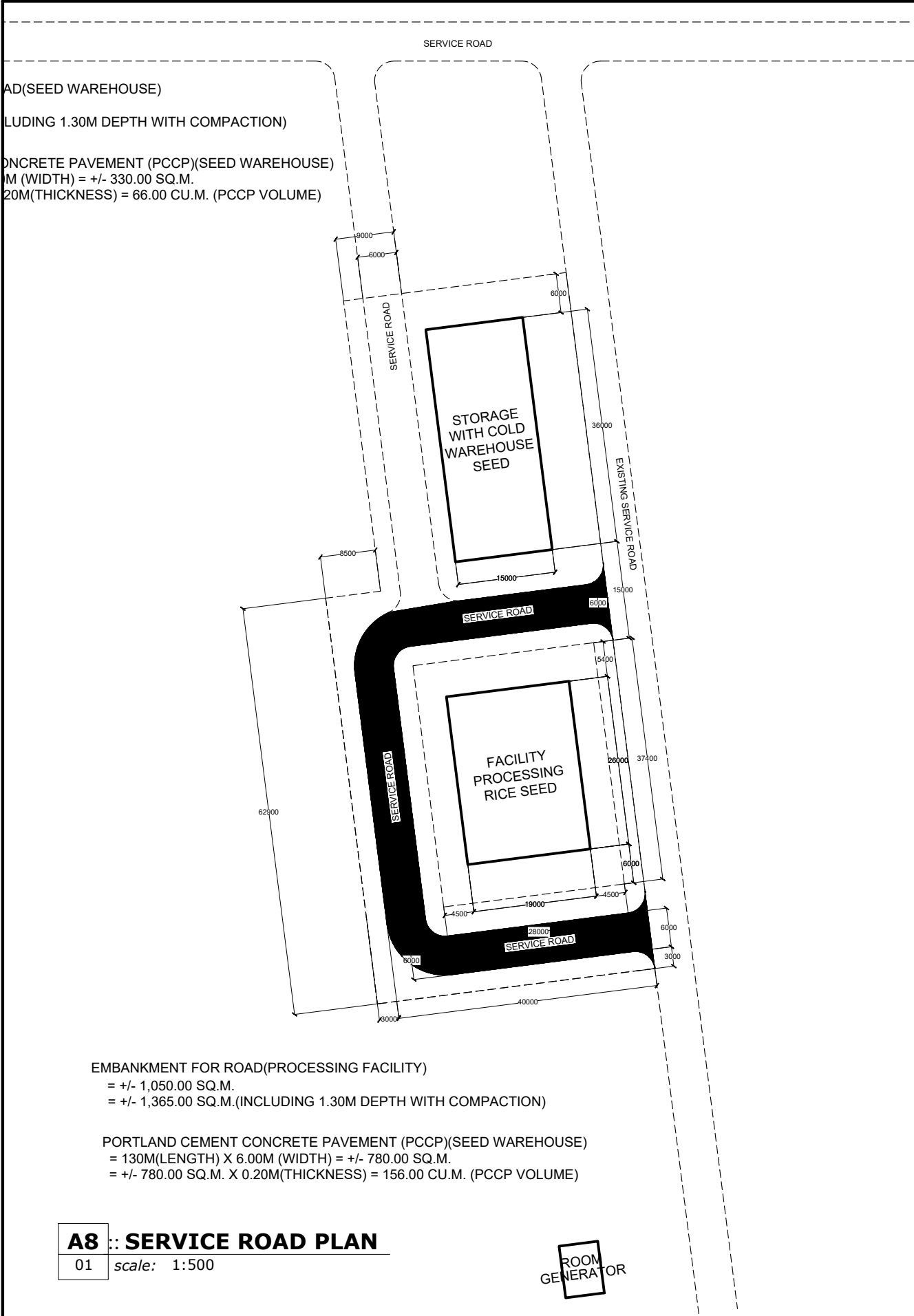
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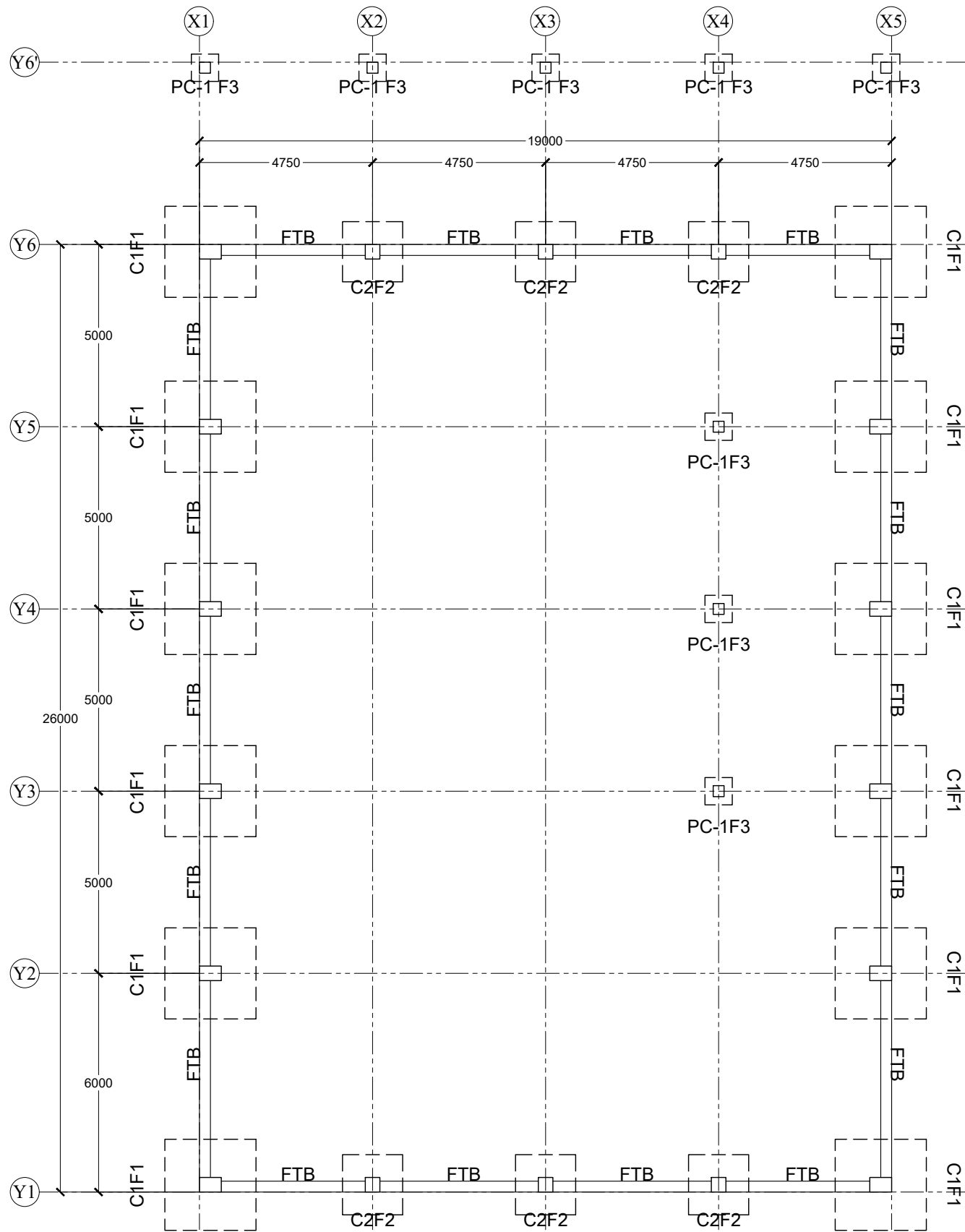


A6 :: Y - SECTION
007 scale: 1:75

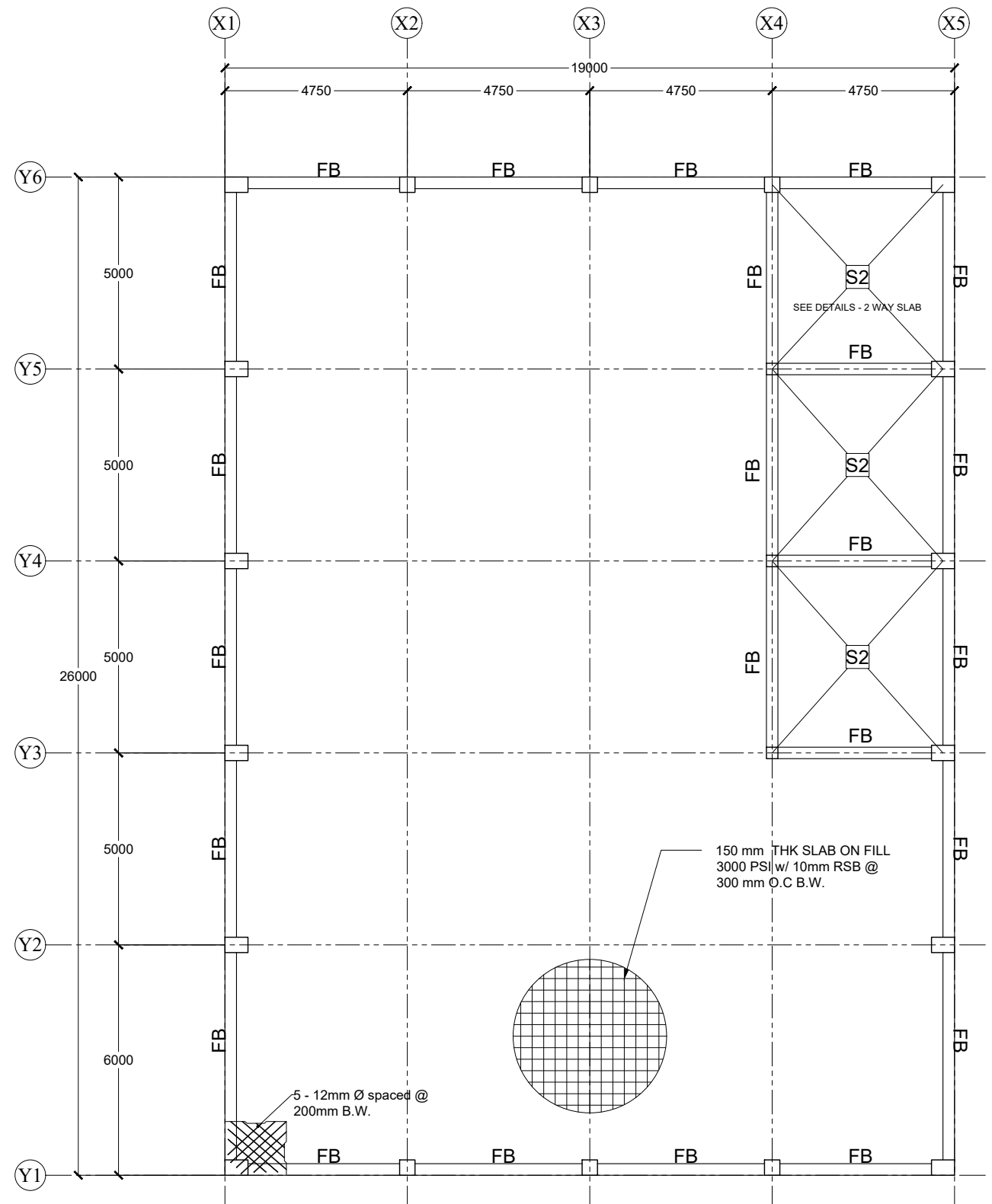


A6 :: X - SECTION
008 scale: 1:75

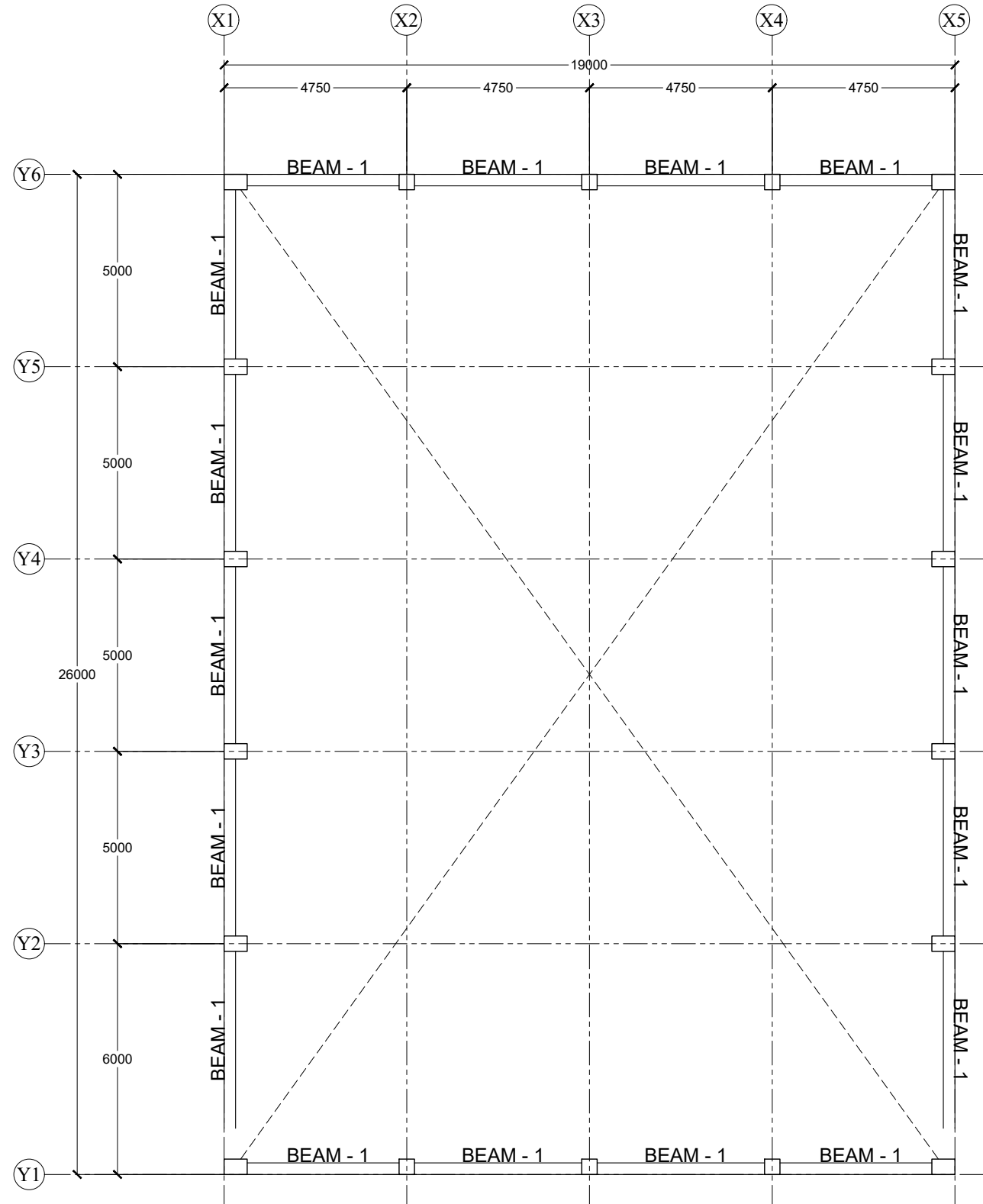




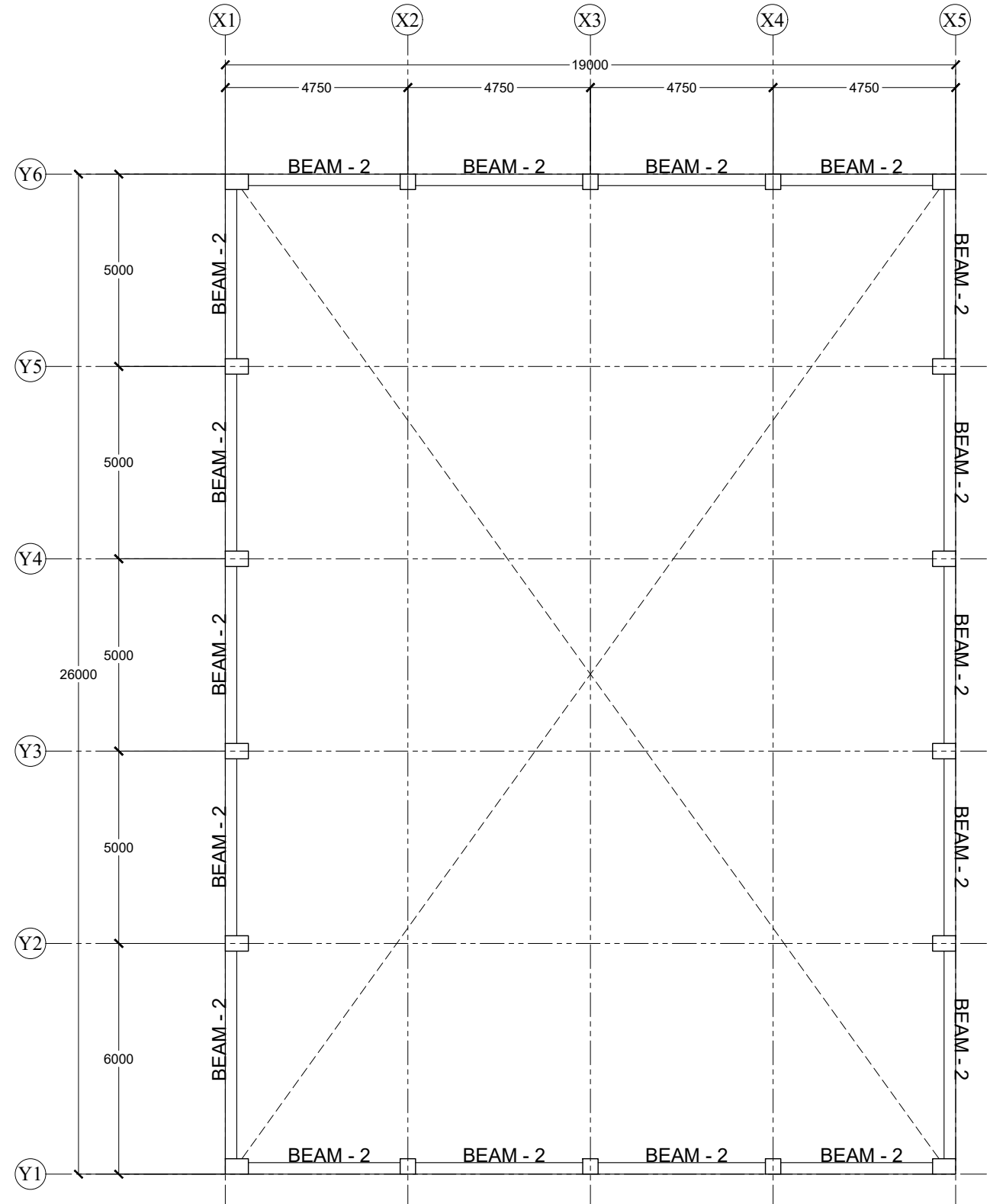
S1 :: FOUNDATION PLAN
01 scale: 1:150



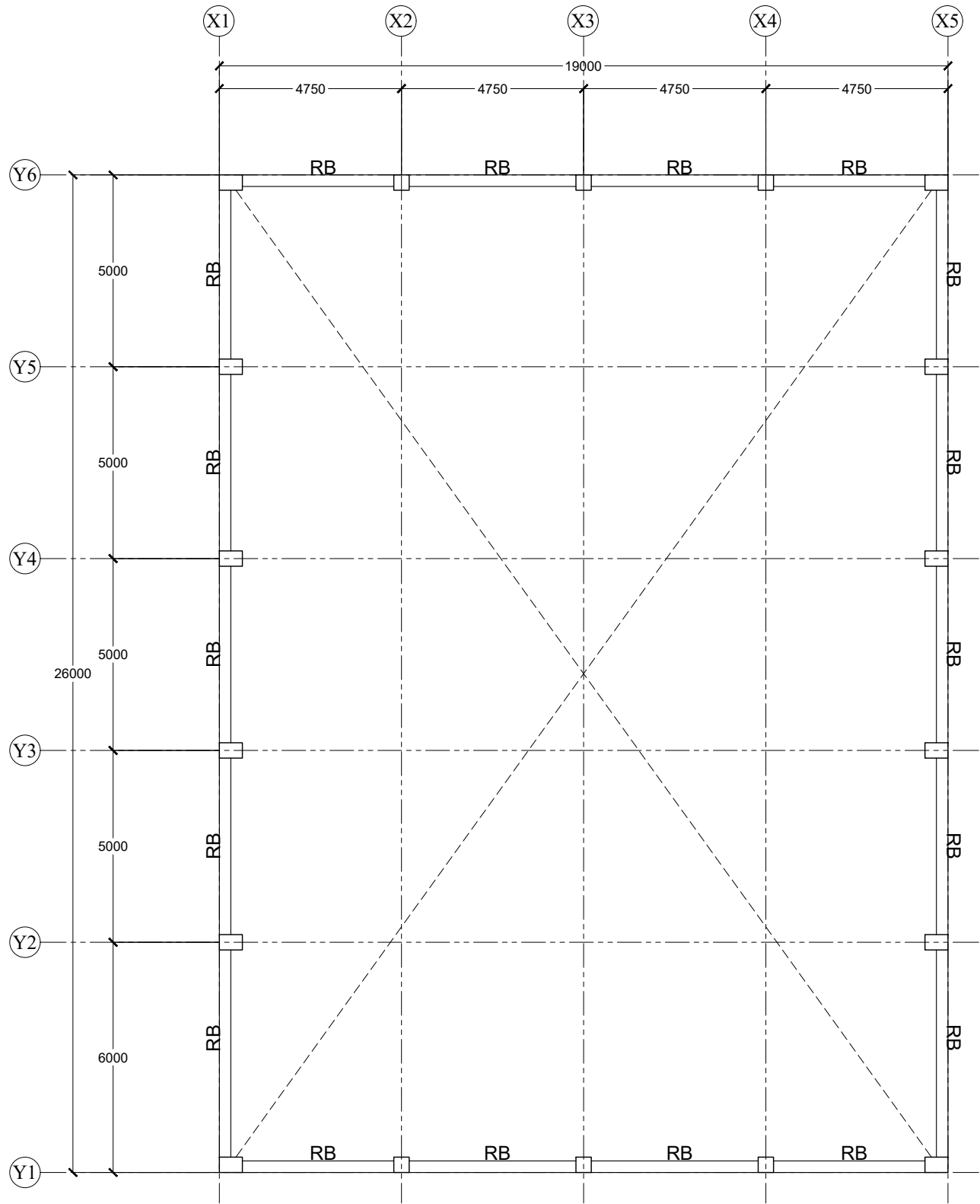
S1 :: FLOOR BEAM PLAN
02 scale: 1:150



S2 :: BEAM - 1 PLAN
01 scale: 1:150

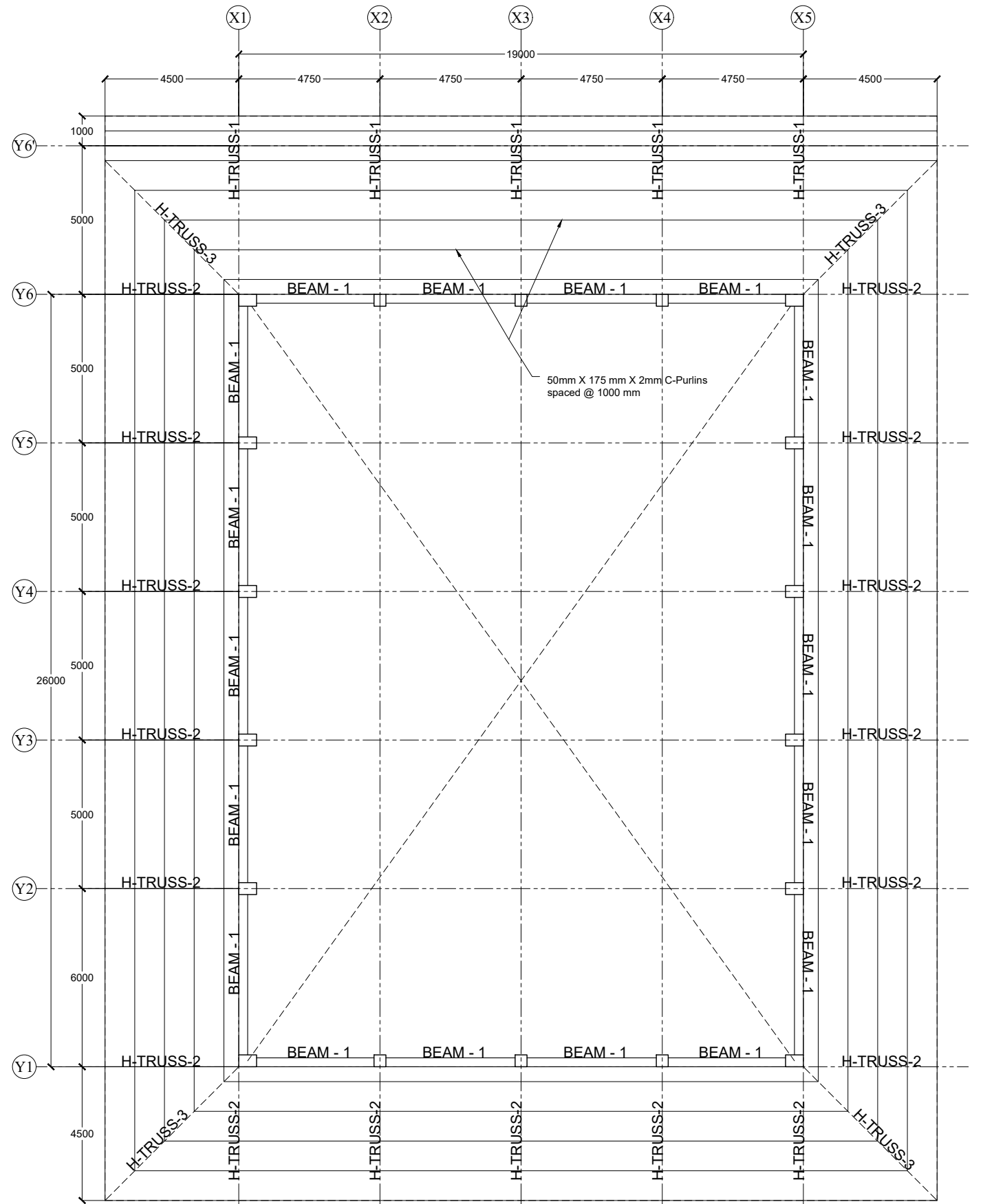


S2 :: BEAM - 2 PLAN
02 scale: 1:150



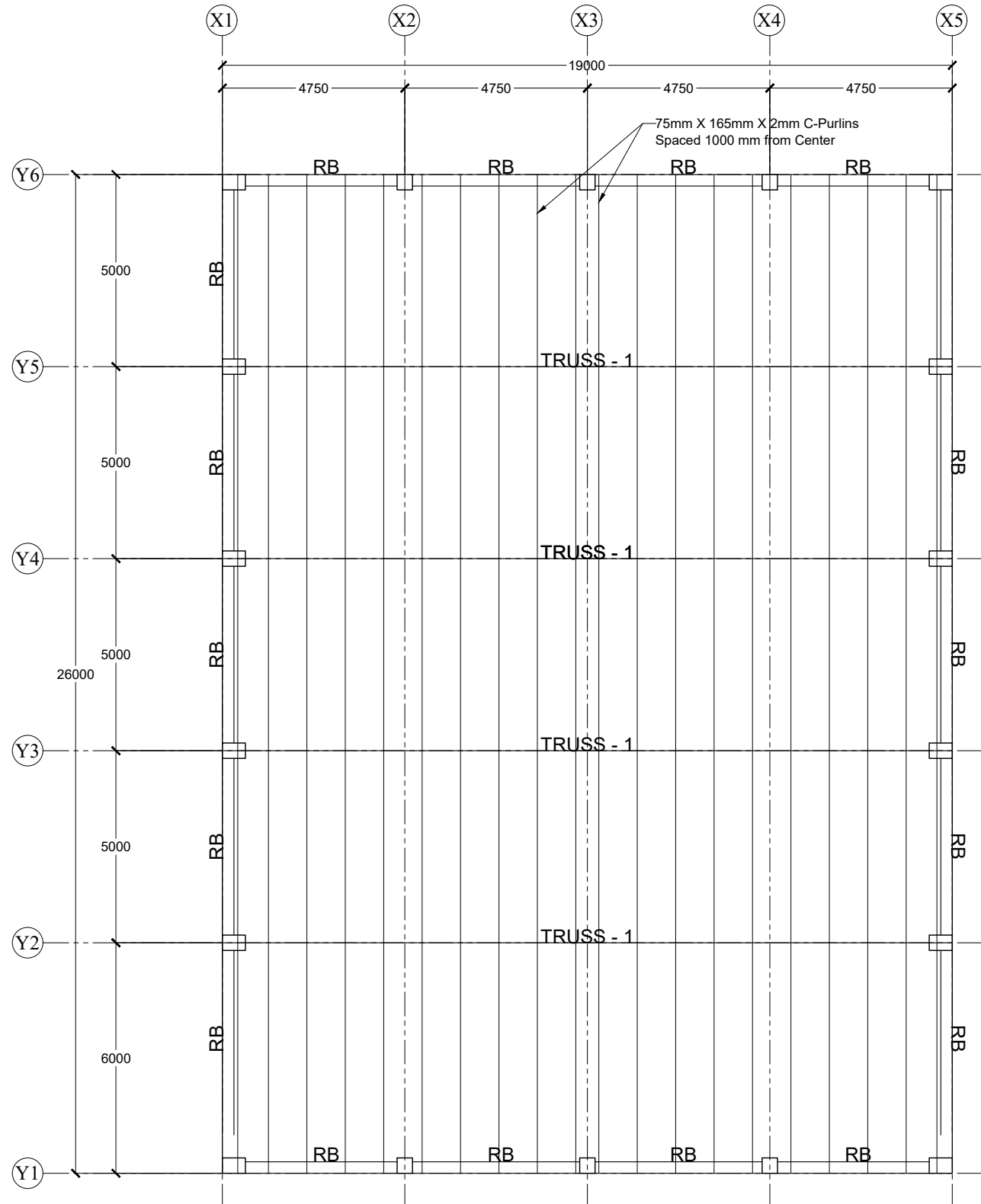
S3 :: ROOF BEAM PLAN

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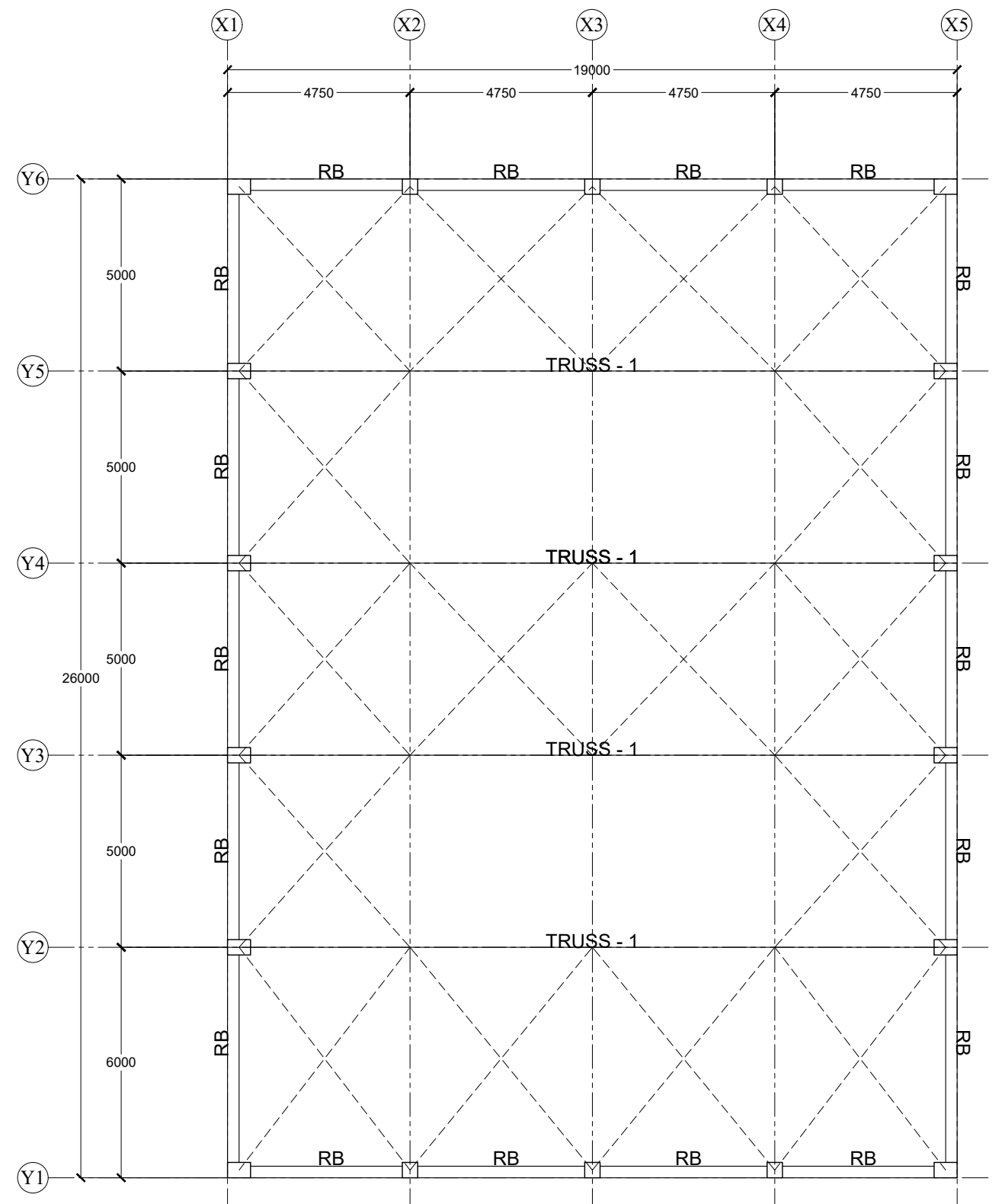


S3 :: CANOPY FRAMING PLAN

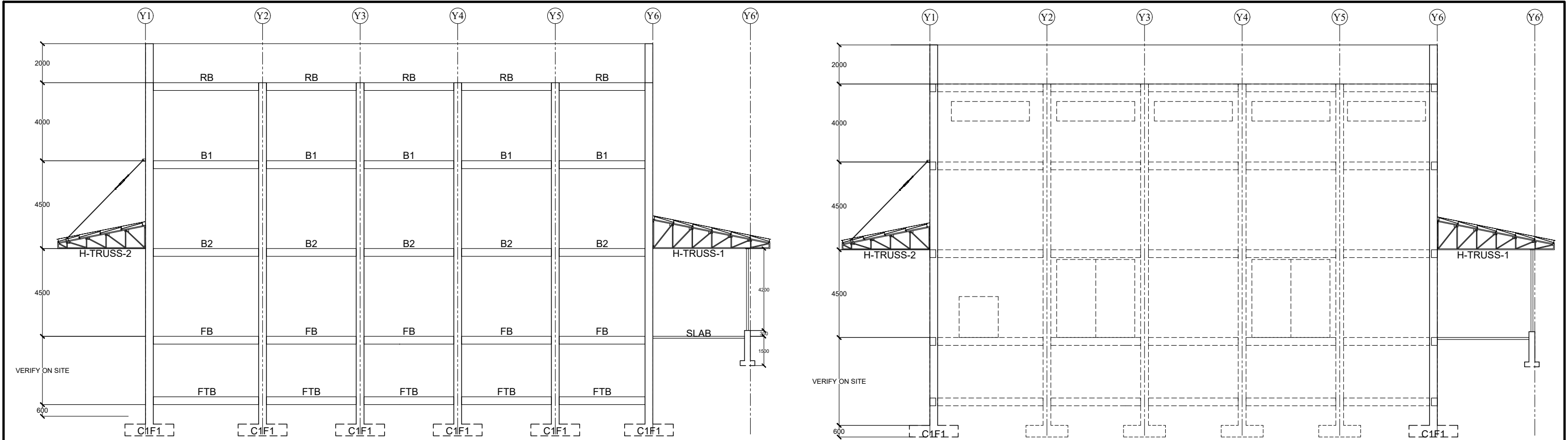
02 scale: 175



S4 :: ROOF FRAMING PLAN
01 scale: 1:150



S4 :: CROSS BRACING PLAN
02 scale: 1:150

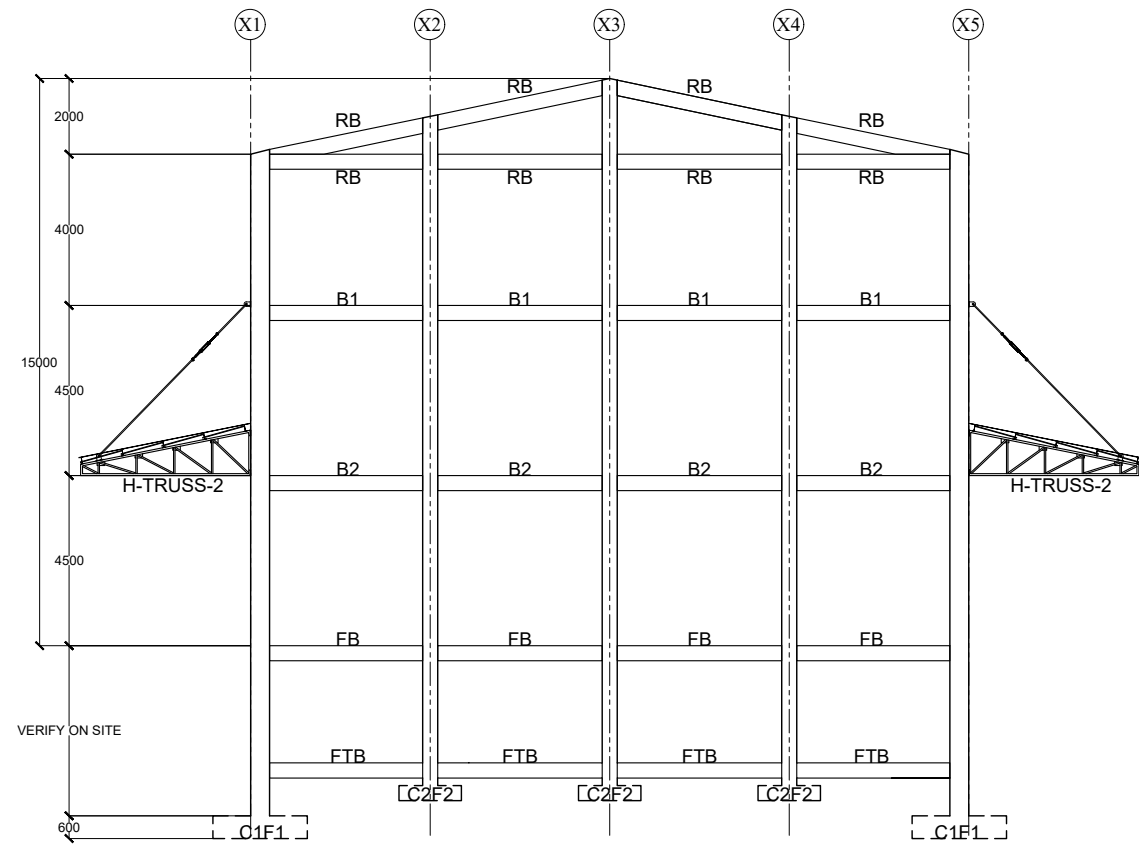


S5 :: LONGITUDINAL FRAME PLAN

01 scale: 1:200

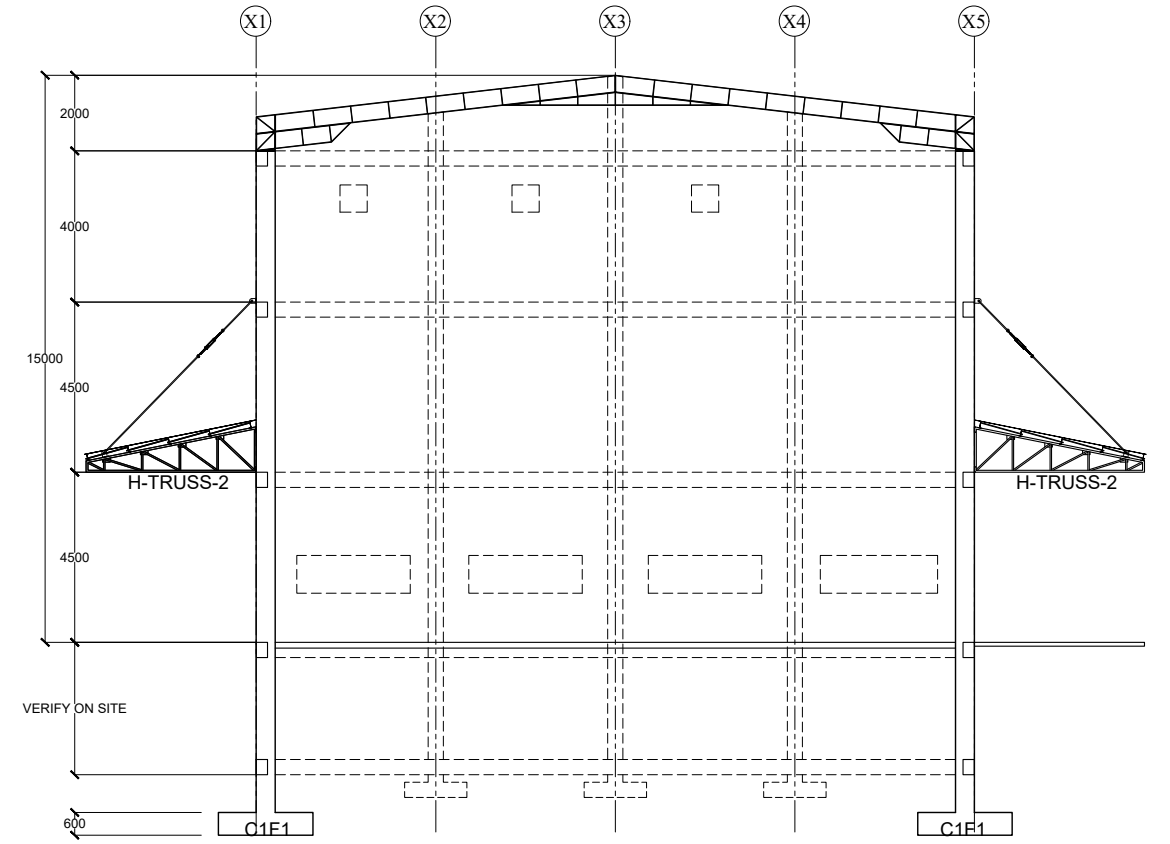
S5 :: Y - SECTION FRAMING PLAN

02 scale: 1:200



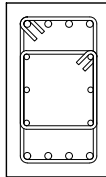
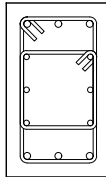
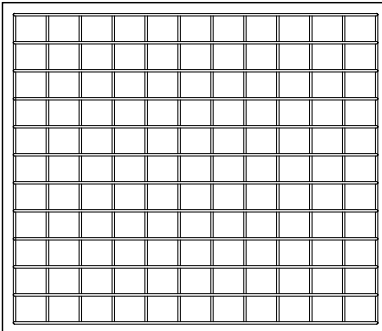
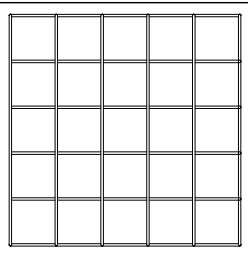
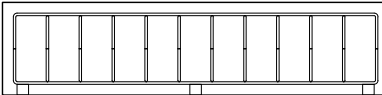

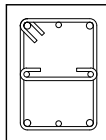
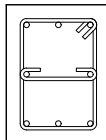
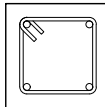



S5 :: TRANSVERSE FRAMING PLAN

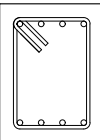
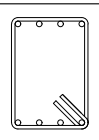
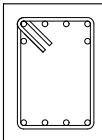
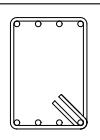
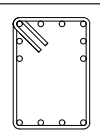
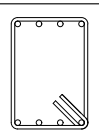
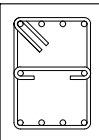
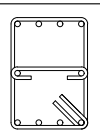
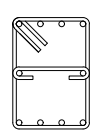
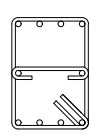
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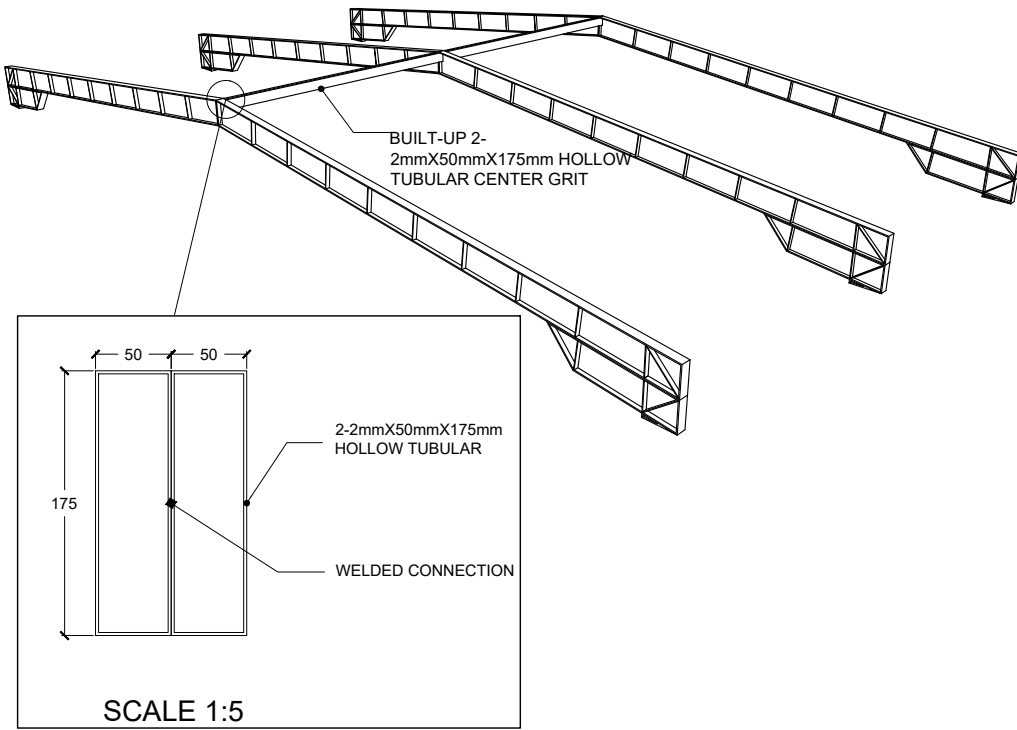
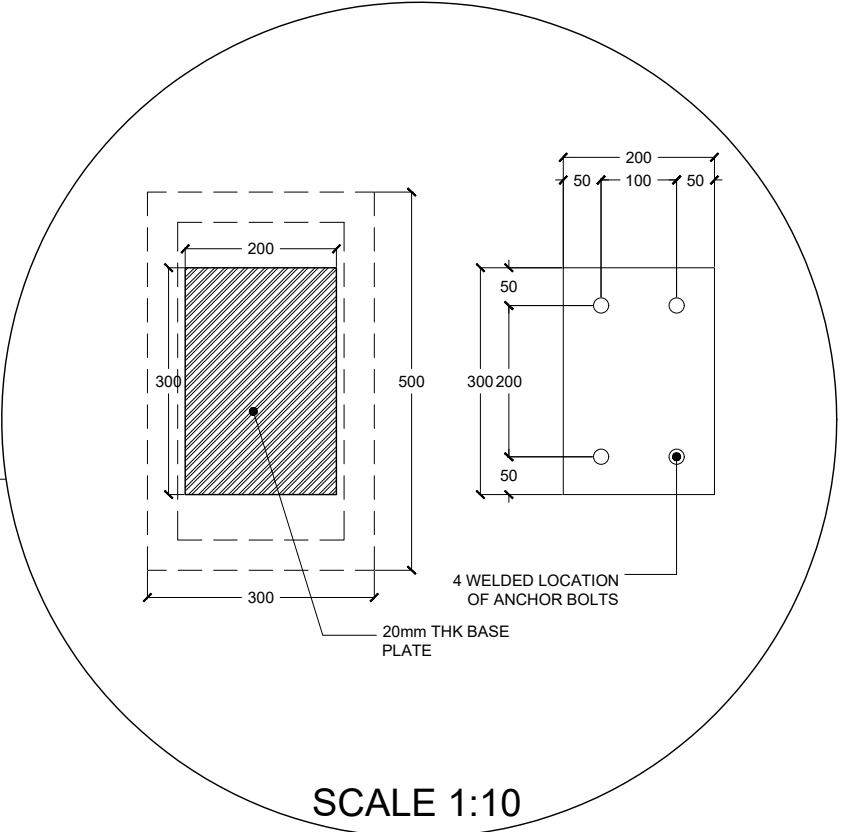
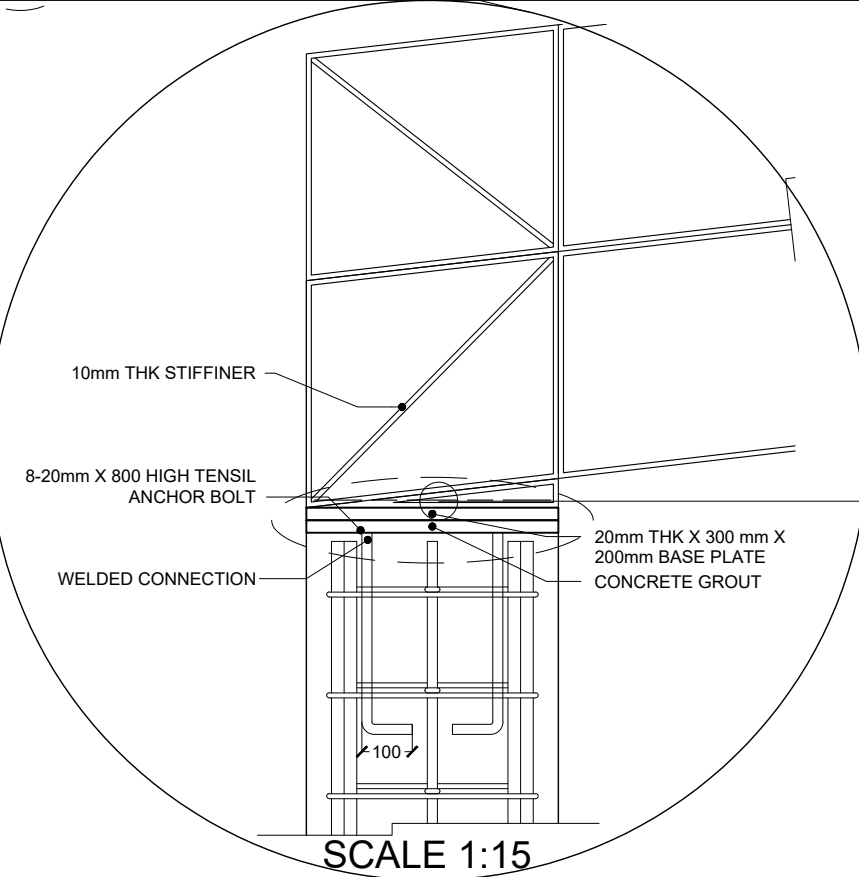
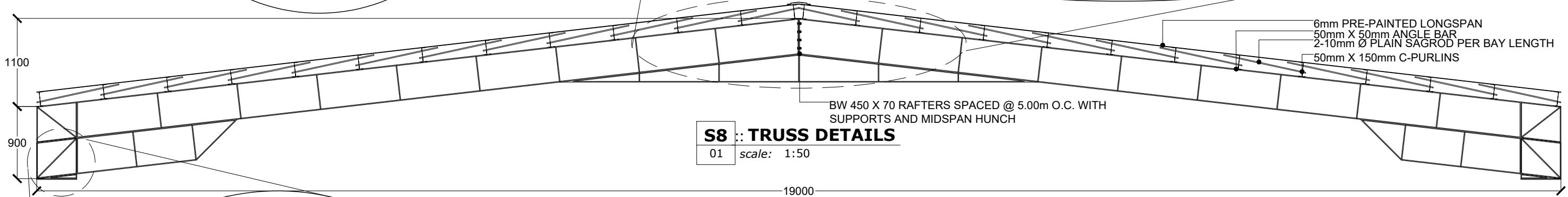
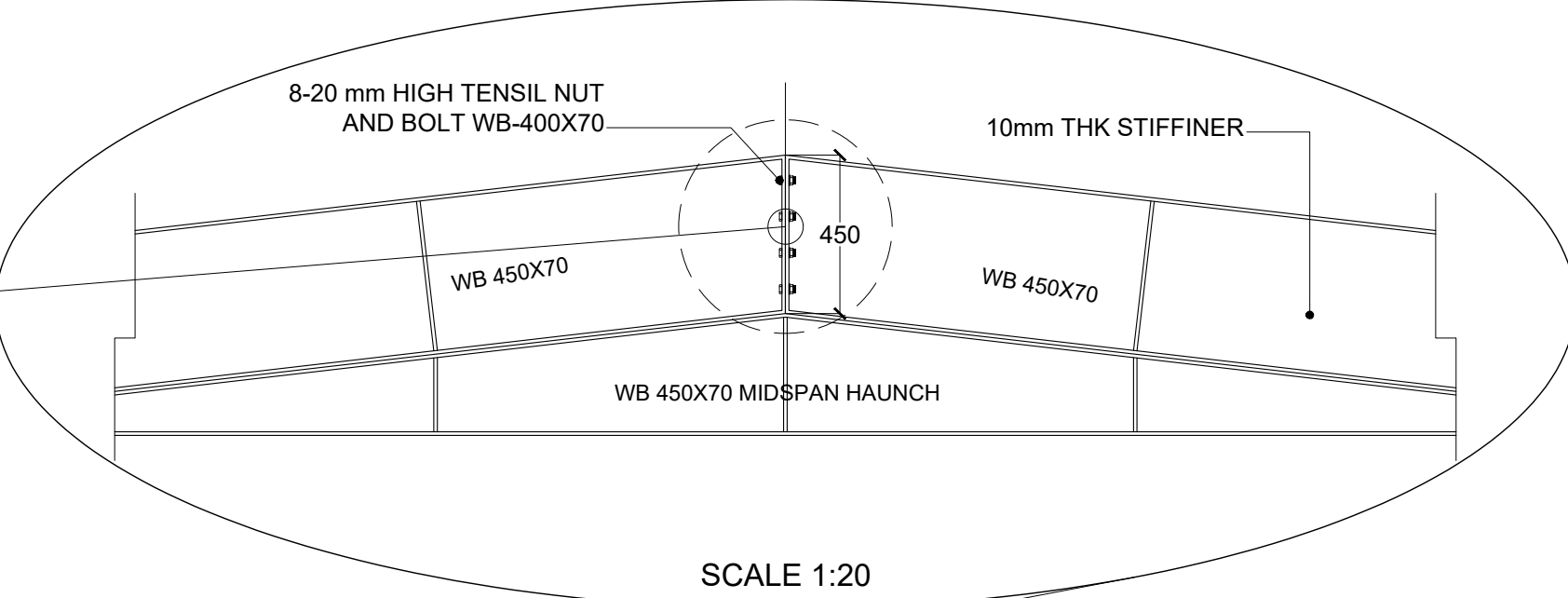
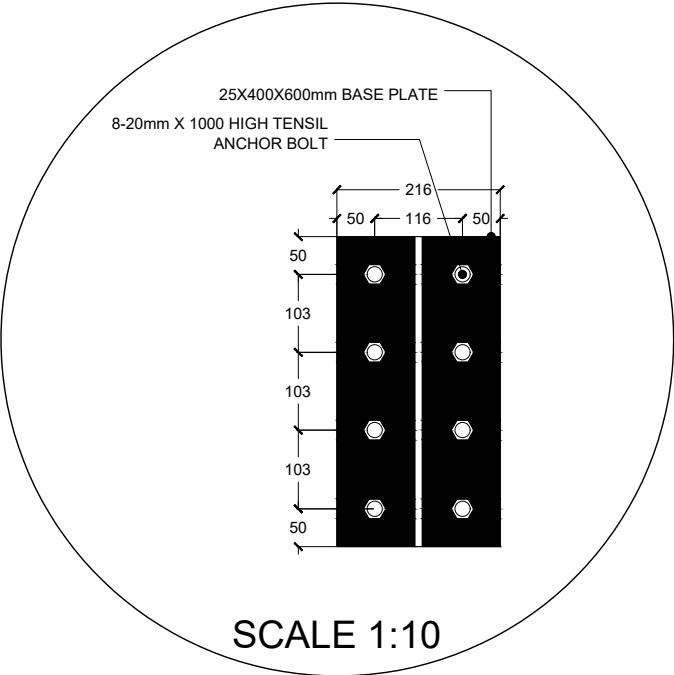


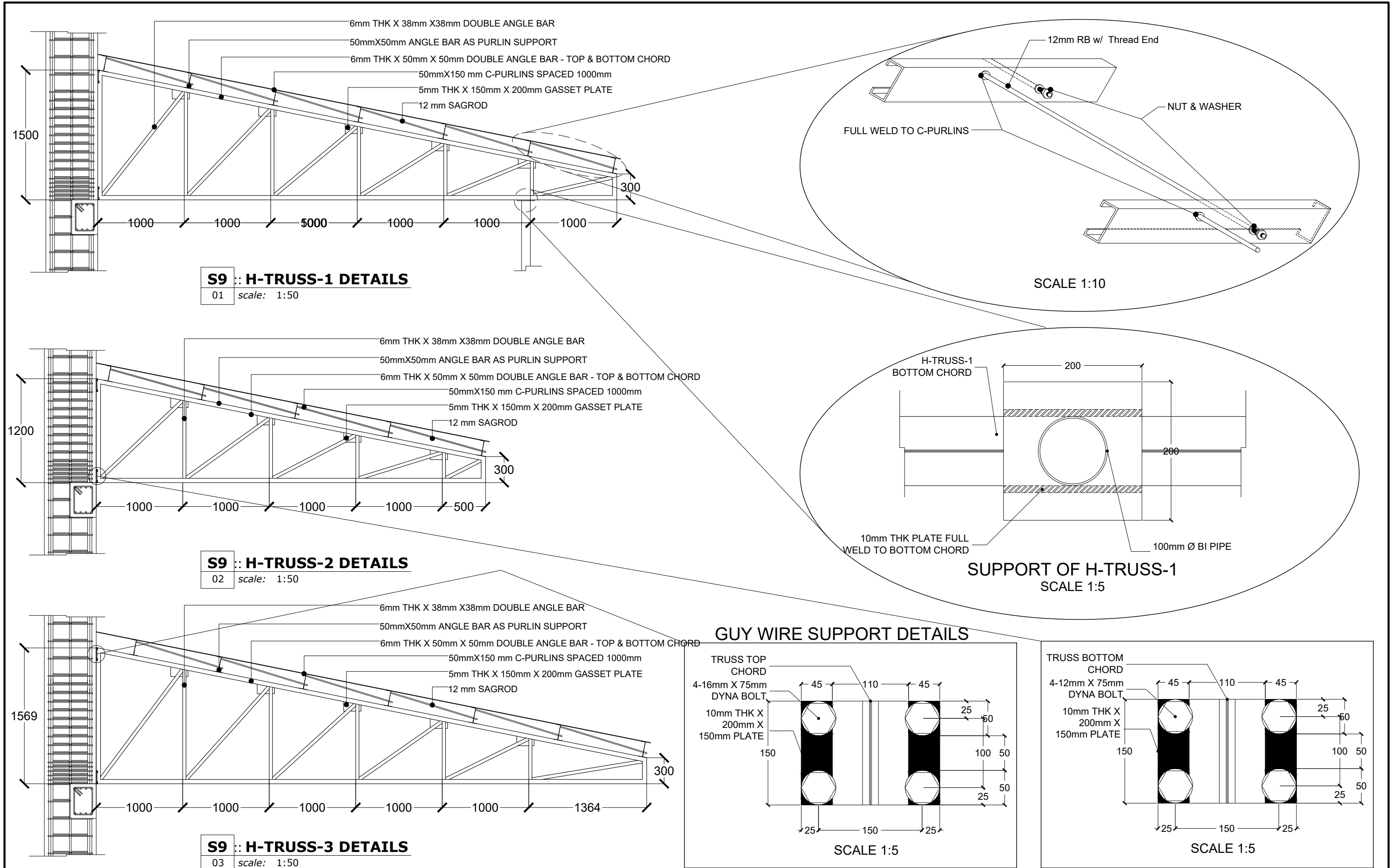
S5 :: X-SECTION FRAME PLAN

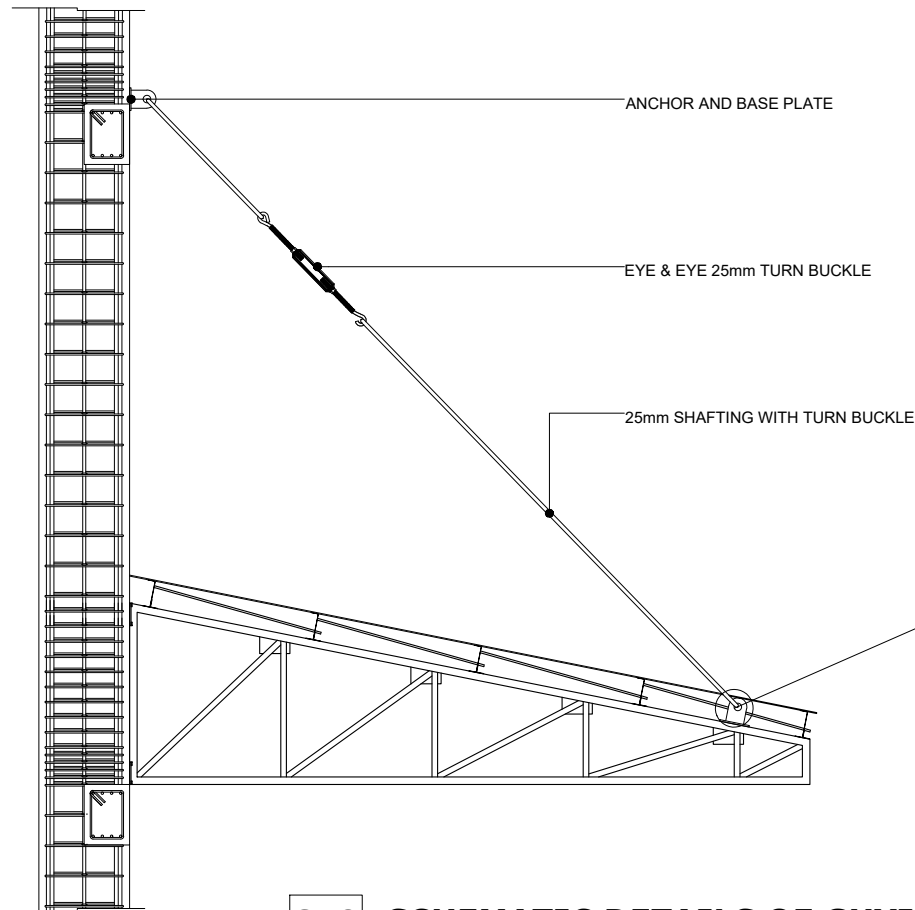
04 scale: 1:200

SCHEDULE OF FOOTINGS & COLUMNS									
MARK		COLUMN-1 (C1)		MARK		FOOTING - 1 (F1)		FOOTING - 2 (F2)	
CROSS SECTION			HORIZONTAL CROSS SECTION						
	ELEVATION	FDN UP TO LEVEL +9.00 m		LEVEL +9.00 m TO +13.00					
	SIZE	500 mm X 300 mm		500 mm X 300 mm					
	MAIN REINFORCEMENT	4 PCS 20mm Ø CORNER BAR 10 PCS 16mm Ø INSIDE BAR		4 PCS 20mm Ø CORNER BAR 8 PCS 16mm Ø INSIDE BAR					
	TIES	5 @ 50mm, 5 @ 100mm, 5 @ 150mm, REST @ 200mm, O.C.							
	CONCRETE COVER	40 mm							
MARK		COLUMN-2 (C2)		VERTICAL CROSS SECTION					
CROSS SECTION			SIZE	2500 mm X 2500 mm X 600 mm		1650 mm X 1650 mm X 400 mm			
	FDN UP TO LEVEL +9.00 m	LEVEL +9.00 m TO +13.00	REINFORCEMENT	TOP BARS	BOTTOM BARS	TOP BARS	BOTTOM BARS		
			BARS	12 PCS 12 mm Ø RSB O.C. B.W	12 PCS 16 mm Ø RSB O.C. B.W	16 PCS 16 mm Ø RSB O.C.	9 PCS 16 mm Ø RSB O.C.		
			DEPTH	3000 mm FROM NGL		2000 mm FROM NGL			
			CONCRETE COVER	70 mm		70 mm			
	SIZE	400 mm X 300 mm	400 mm X 300 mm						
MAIN REINFORCEMENT	4 PCS 20mm Ø CORNER BAR 4 PCS 16mm Ø INSIDE BAR	4 PCS 16mm Ø CORNER BAR 4 PCS 16mm Ø INSIDE BAR							
TIES	5 @ 50mm, 5 @ 100mm, 5 @ 150mm, REST @ 200mm, O.C.								
CONCRETE COVER	40 mm								
MARK		PEDESTAL COLUMN (PC)		MARK		FOOTING - 3 (F3)			
CROSS SECTION		HORIZONTAL CROSS SECTION			SIZE		750 mm X 750 mm X 250 mm		
			REINFORCEMENT	ALONG "L"	ALONG "W"				
			BARS	4 PCS 16 mm Ø RSB O.C.		4 PCS 16 mm Ø RSB O.C.			
			DEPTH	1500 mm FROM NGL					
			CONCRETE COVER	70 mm					
SIZE	300 mm X 300 mm			LINTEL BEAMS		BOND BEAM			
MAIN REINFORCEMENT	4 PCS 20 Ø RSB				SIZE: 150mm X 200mm MAIN BARS: 4-12 mm Ø RSB TIES: 10mm Ø RSB, 1 @ 50mm, REST @ 150mm, O.C.			SIZE: 150mm X 200mm MAIN BARS: 2-12 mm Ø RSB TIES: 10mm Ø RSB, @ 150mm, O.C.	
TIES	5 @ 50mm, 10 @ 100mm, REST @ 200mm, O.C.								
CONCRETE COVER	40 mm								

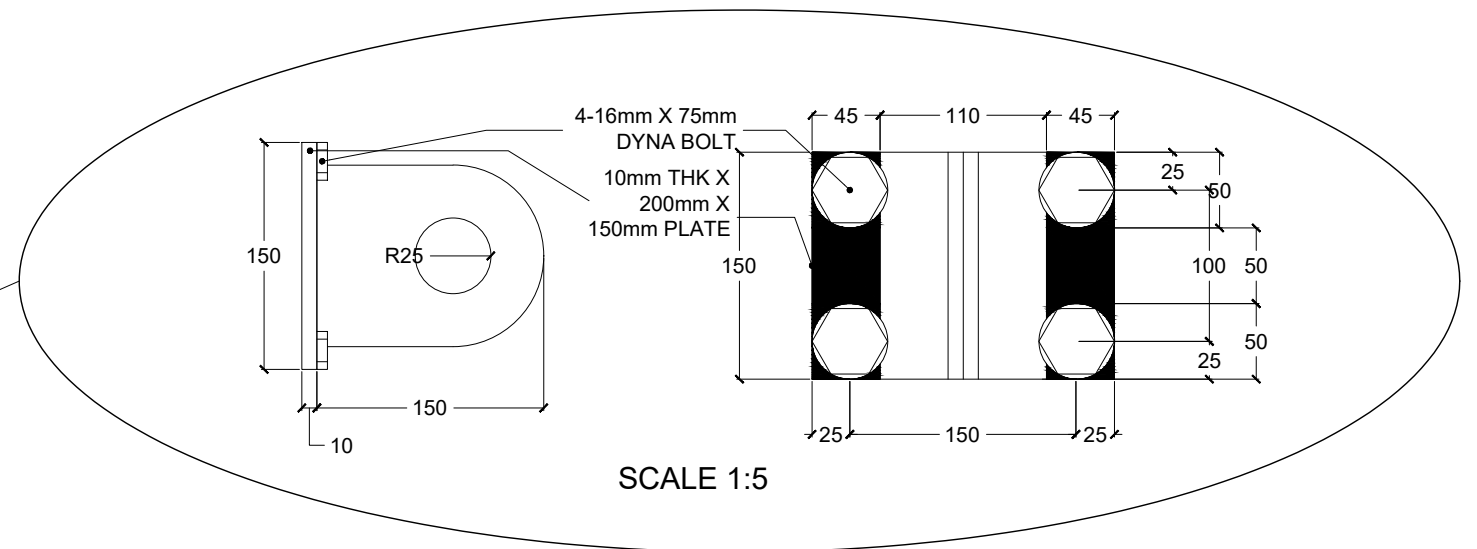
SCHEDULE OF BEAMS											
MARK		ROOF BEAM (RB)		BEAM - 2		BEAM - 1		FLOOR BEAM (FB)		FOOTING TIE BEAM (FTB)	
CROSS SECTION											
	SUPPORT	MID SPAN	SUPPORT	MID SPAN	SUPPORT	MID SPAN	SUPPORT	MID SPAN	SUPPORT	MID SPAN	
	SIZE		300 mm X 400 mm		300 mm X 400 mm		300 mm X 400 mm		360 mm X 460 mm		
	REINFORCEMENT	SUPPORT	MID-SPAN	SUPPORT	MID-SPAN	SUPPORT	MID-SPAN	SUPPORT	MID-SPAN	SUPPORT	MID-SPAN
	CONTINUOUS TOP BARS	4 PCS 16mm Ø RSB	4 PCS 16mm Ø RSB	4 PCS 16mm Ø RSB	4 PCS 16mm Ø RSB	4 PCS 16mm Ø RSB	4 PCS 16mm Ø RSB	6 PCS 16mm Ø RSB	6 PCS 16mm Ø RSB	6 PCS 16mm Ø RSB	6 PCS 16mm Ø RSB
	EXTRA CUT TOP BARS			2 PCS 16mm Ø RSB		4 PCS 16mm Ø RSB					
CONTINUOUS BOTTOM BARS	4 PCS 16mm Ø RSB	4 PCS 16mm Ø RSB	4 PCS 16mm Ø RSB	4 PCS 16mm Ø RSB	4 PCS 16mm Ø RSB	4 PCS 16mm Ø RSB	4 PCS 16mm Ø RSB	4 PCS 16mm Ø RSB	4 PCS 16mm Ø RSB	4 PCS 16mm Ø RSB	
EXTRA CUT BOTTOM BARS											
STIRRUPS	5 @ 50mm, 5 @ 100mm, 5 @ 150mm REST @ 200mm, O.C.		5 @ 50mm, 5 @ 100mm, 5 @ 150mm REST @ 200mm, O.C.		5 @ 50mm, 5 @ 100mm, 5 @ 150mm REST @ 200mm, O.C.		5 @ 50mm, 5 @ 100mm, 5 @ 150mm REST @ 200mm, O.C.		5 @ 50mm, 5 @ 100mm, 5 @ 150mm REST @ 200mm, O.C.		
CONCRETE COVER	40 mm		40 mm		40 mm		40 mm		70 mm		



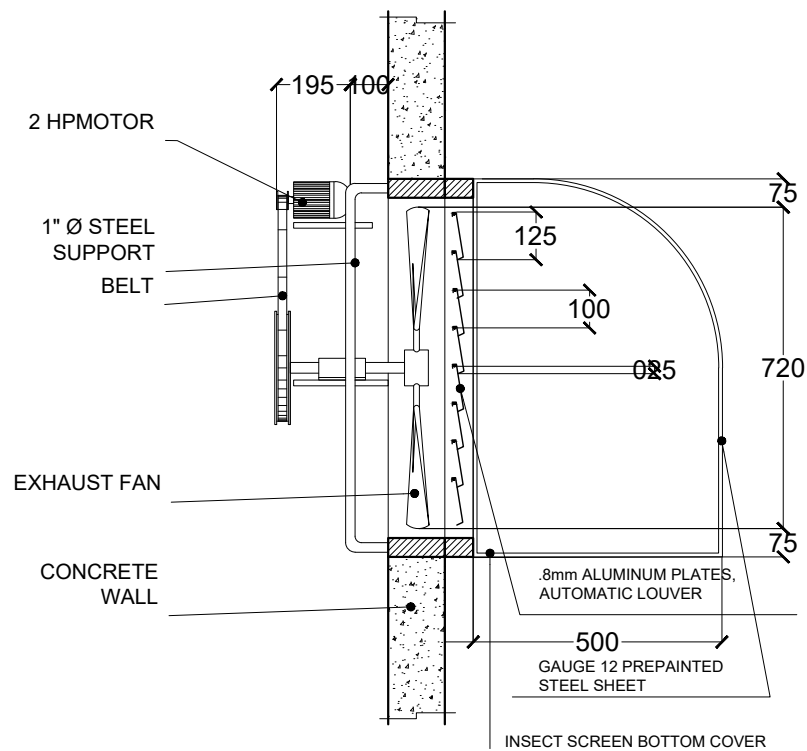




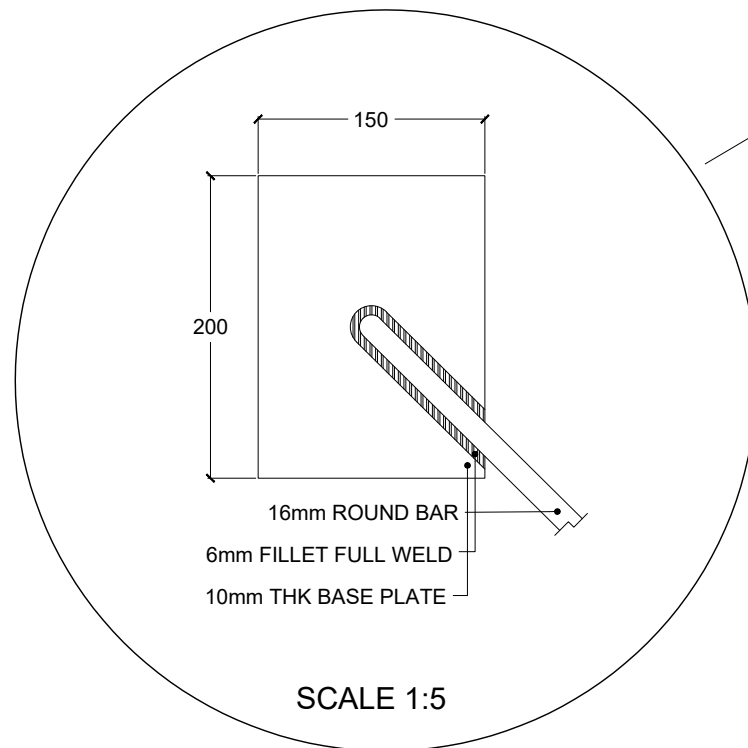
S10:: SCHEMATIC DETAILS OF GUYING SYSTEM
01 scale: 1:50



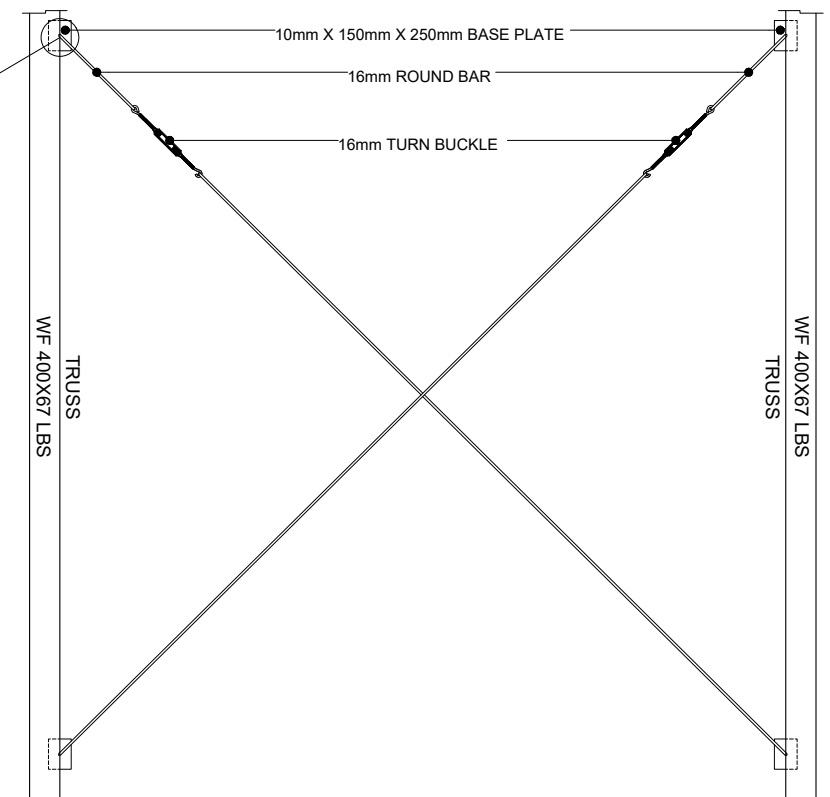
SCALE 1:5



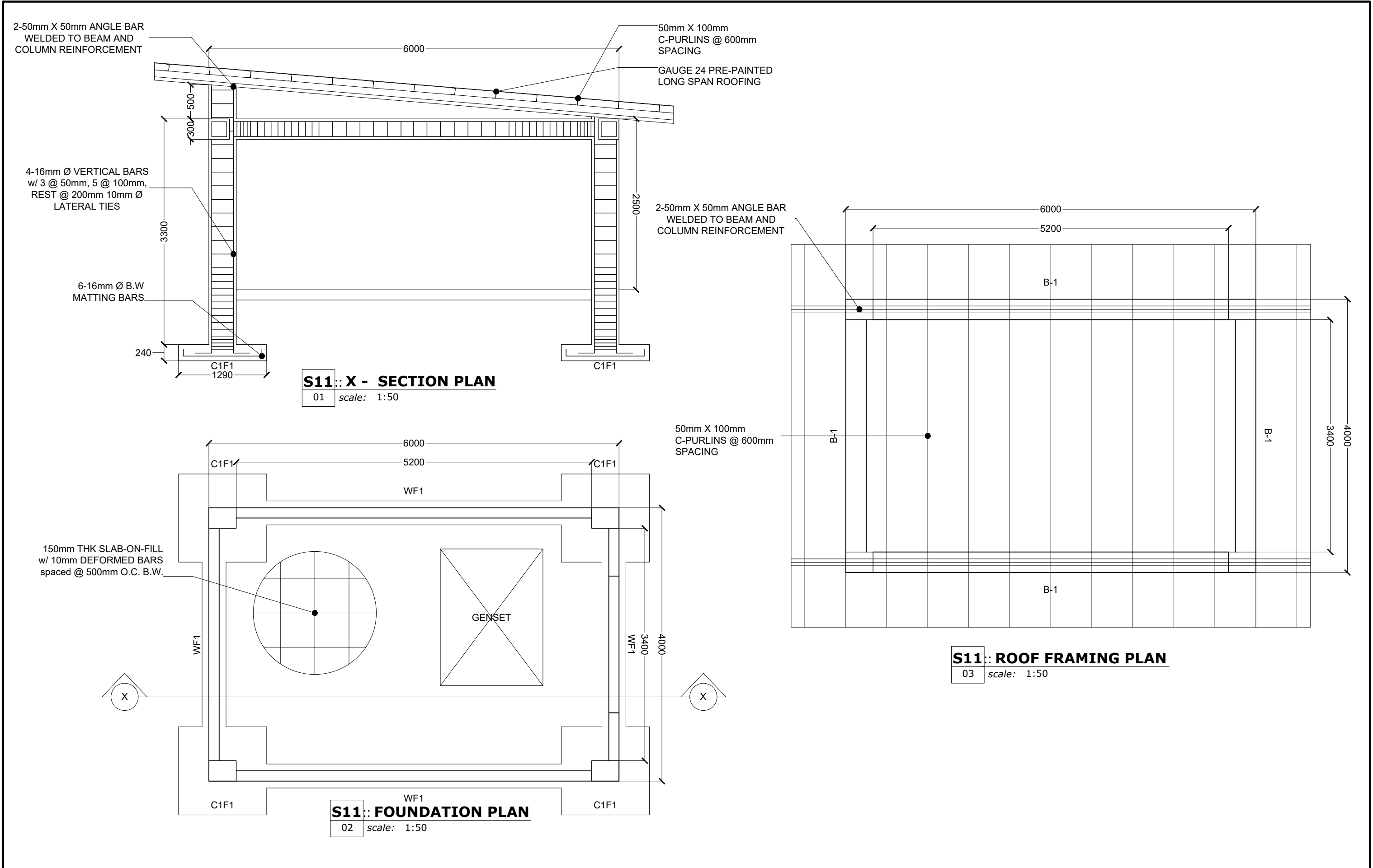
S10:: MOTORIZED EXHAUST FAN DETAILS
02 scale: 1:20



SCALE 1:5



S10:: CROSS BRACING DETAILS
03 scale: 1:50



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								DATE: JULY, 2023		
								CADD BY: NGD		
								DATE: JULY, 2023		
								CHECKED BY: RBB		

ELECTRICAL SPECIFICATIONS

1. ALL ELECTRICAL WORKS SHALL COMPLY WITH THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE WITH THE RULES AND REGULATION OF THE OF THE NATIONAL AND LOCAL AUTHORITIES CONCERN IN THE ENFORCEMENT OF THE ELECTRICAL LAWS AND REGULATIONS OF THE UTILITY COMPANIES CONCERN.
2. SERVICE ENTRANCE VOLTAGE TO THE BUILDING SHALL BE 240VOLTS, 60 HERTZ, THREE PHASE
3. THE CONTRACTOR SHALL VERIFY AND ORIENT THE ACTUAL LOCATION OF PANELBOARD CONNECTION TO THE POWER SUPPLY.
4. ALL INSTALLATION CONCEALED FROM VIEW WIRING SHALL BE INCASE OF POLYVINYL CHLORIDE (PVC) SCHEDULE 40 EXCEPT POWER.
5. PULL BOXES OF APPROPRIATE SIZE SHALL BE PROVIDED, EVEN IF NOT INDICATED IN THE DRAWING TO ACCOMMODATE THE NUMBER OF SPLICES OF WIRE.
6. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE APPROPRIATE FOR BOTH LOCATION AND INTENDED USE.
7. ELECTRICAL INSTALLATION SHALL BE UNDER DIRECT SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER OR A REGISTERED MASTER ELECTRICIAN.
- 8.NO REVISION IN THE DESIGN SHALL BE DONE WITHOUT THE PRIOR KNOWLEDGE AND APPROVAL OF THE DESIGNER AND THE OWNER, ANY SUCH REVISIONS DONE WITHOUT APPROVAL SHALL BE CAUSE RESPONSIBILITY OF THE DESIGNER TO CEASE THE WHOLE.
9. MOUNTING SHALL BE AS FOLLOWS:
- LIGHTING SWITCHES SHALL BE 1.40 METERS ABOVE FINISH FLOOR LINE.

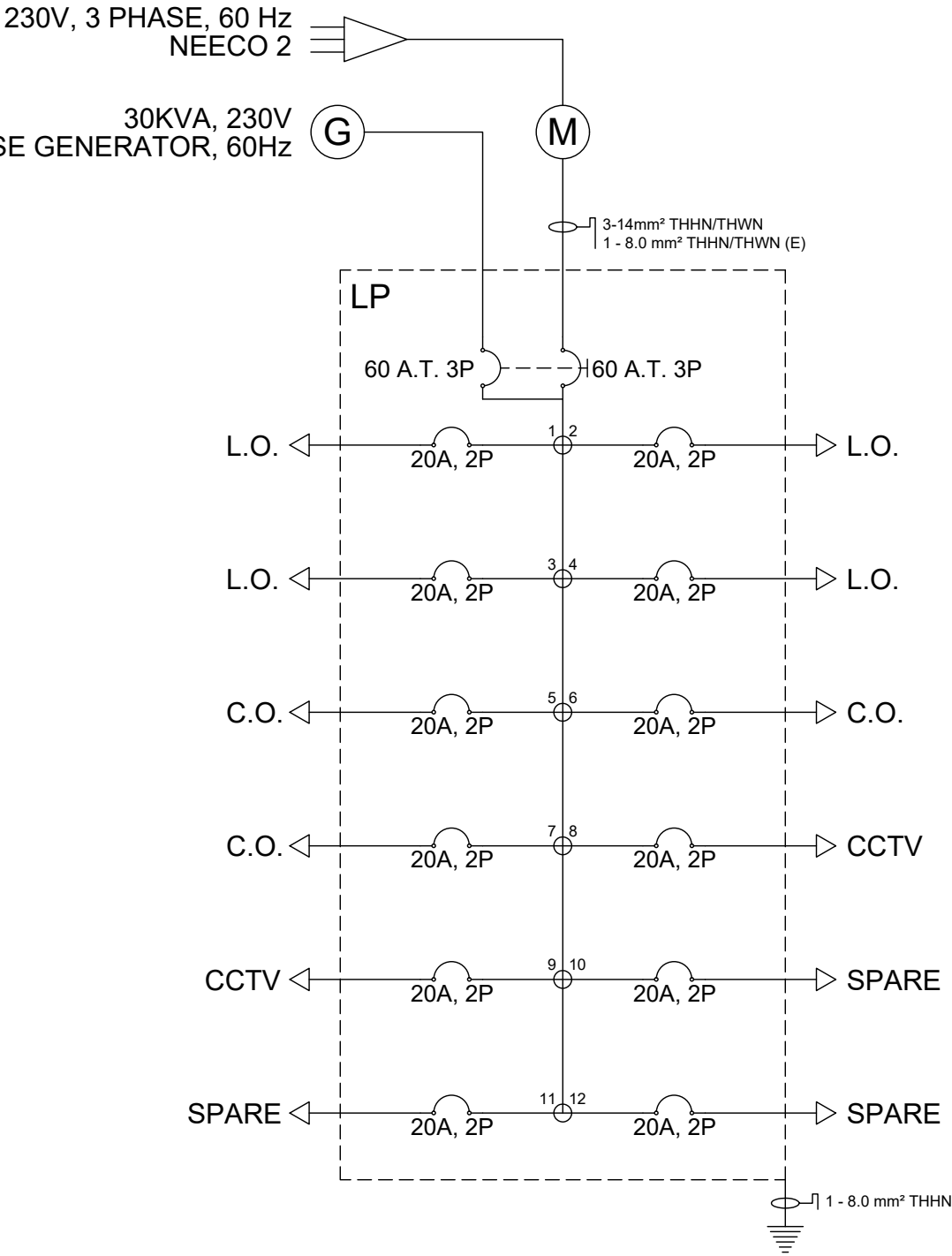
CONVENIENCE OUTLETS SHALL BE 0.30 METERS ABOVE FINISH FLOOR LINE.

TABLE OUTLETS SHALL BE 0.15 METERS ABOVE COUNTER ON THE CENTER.

CABINET PANEL BOARD SHALL BE 1.40 METER ABOVE FLOOR FINISH UNLESS OTHERWISE DIRECTED.

LEGEND

- GROUNDING
- MOULDED CASE CIRCUIT BREAKER
- 200W INDUSTRIAL FLOOD LIGHT
- 50W LED LAMP
- EMERGENCY LIGHT
- EXIT LIGHT
- POWER PANEL
- HOMERUN CIRCUIT
- SINGLE DEVICE SWITCH
- TWO DEVICE SWITCH
- THREE DEVICE SWITCH
- DUPLEX CONVENIENCE OUTLET
- KMHr METER
- GENERATOR
- CCTV
- VIDEO RECORDER NETWORK
- VIDEO RECORDER SWITCH



5/8 " X 3m G. ROD

SINGLE LINE DIAGRAM

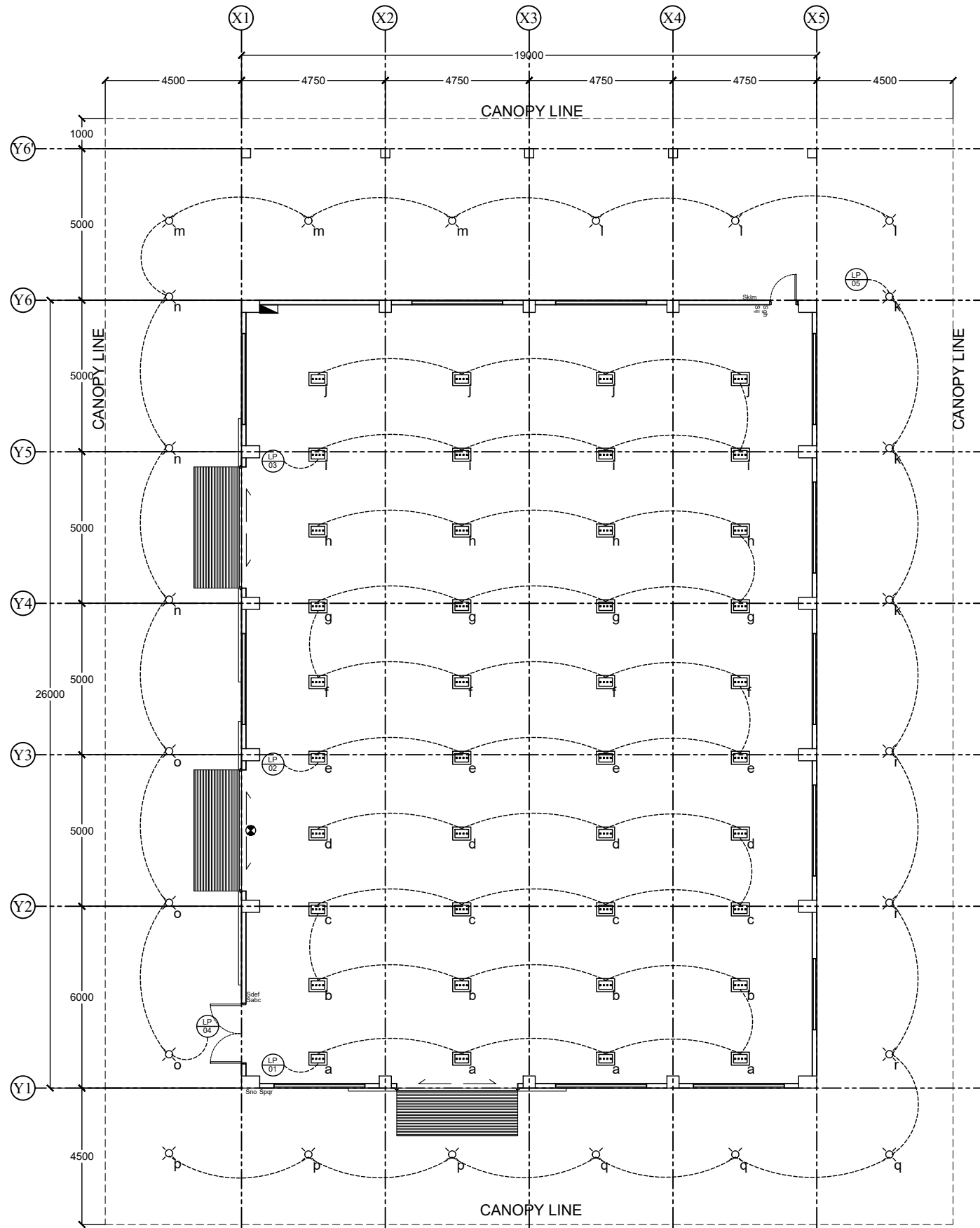
COMPUTATION: MAIN PANEL BOARD 2 (FOR EQUIPMENT)

FULL LOAD CURRENT
P= 250 kW, 3Ø, 230 V $I = \frac{P}{1.732(V)}$ $I = \frac{250 \times 10^3}{1.732(230)}$ $I = 627.57 \text{ AMP}$

250% OF FULL LOAD CURRENT
 $I = 250\% (627.57A) = 1568.92 \text{ AMP}$

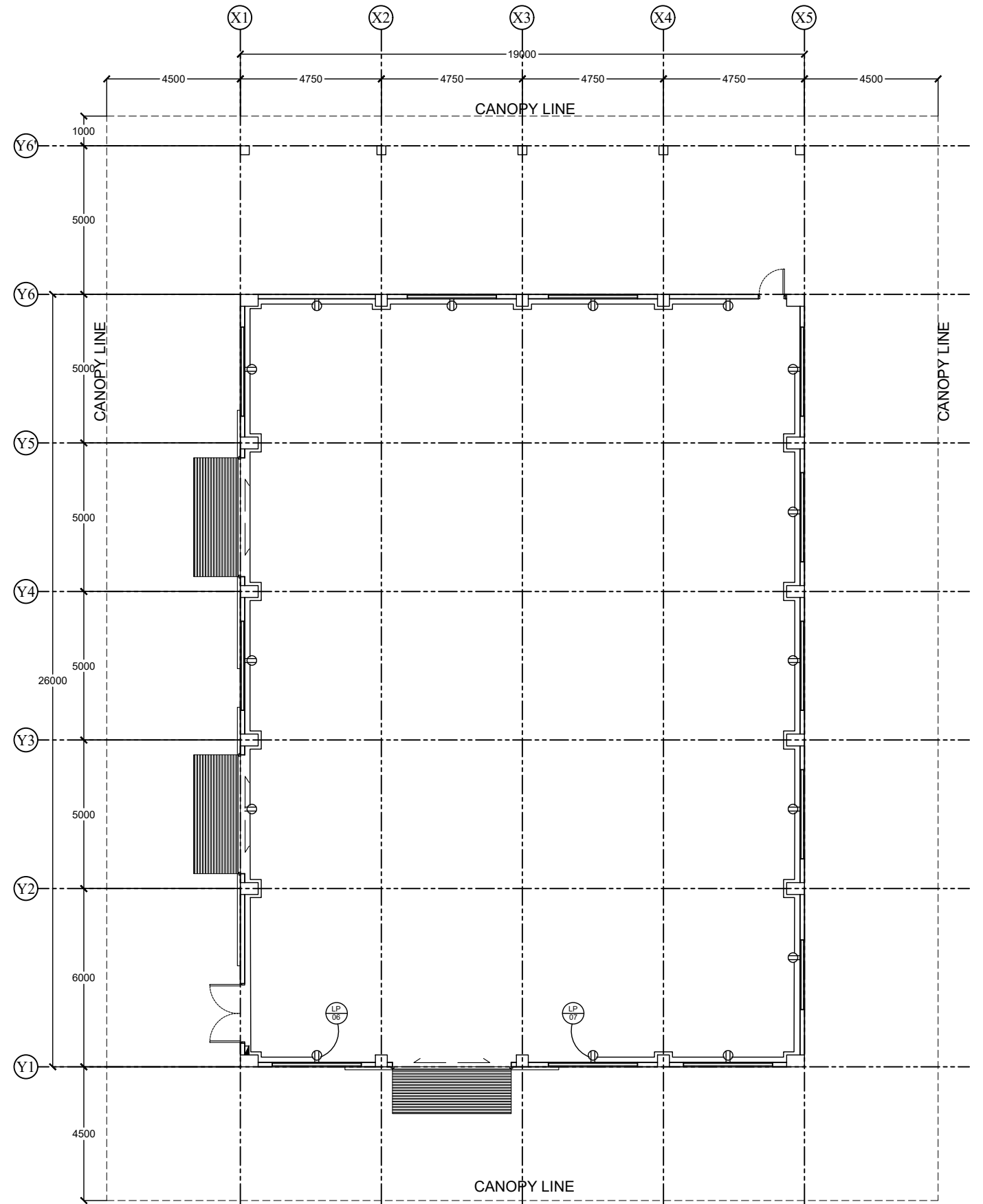
USE: 3 SETS OF : 3-400mm² THHN IN 3-115mm Ø R.S.C. with ENTRANCE CAP / TRENCHMENT, 1-60mm² THHN GROUND WIRE AND 1600AT, 2000AF, 3 POLE MAIN CIRCUIT BREAKER (GE BRAND, BOLT-ON)

PANEL LOAD SCHEDULE			PANEL TITLE		MAIN CB: 60AT / 50AF, 3P FEEDER WIRE: 3-22mm² THHN/WHWN, 1-8.0mm² THHN/THWN (E)								SOURCE:	
			LP		VOLTS: 220V				PHASE: 3				SERVICE ENTRANCE	
CKT. NO.	LOAD DESCRIPTION		LOAD KW	AMP/ CKT.	AMPERE LOAD				CIRCUIT BREAKER				CIRCUIT BREAKER	PIPES / CONDUITS
					3Ø	AB	BC	CA	AT	AF	POLE	KAIC		
1	16	LIGHTING OUTLET	3.20			13.91			20	50	2P	7.5	2-3.5mm² THHN/THWN, E-2.0mm²	15mm Ø RSC
2	16	LIGHTING OUTLET	3.20			13.91			20	50	2P	7.5	2-3.5mm² THHN/THWN, E-2.0mm²	15mm Ø RSC
3	8	LIGHTING OUTLET	1.60					6.95	20	50	2P	7.5	2-3.5mm² THHN/THWN, E-2.0mm²	15mm Ø RSC
4	12	LIGHTING OUTLET	2.40					10.43	20	50	2P	7.5	2-3.5mm² THHN/THWN, E-2.0mm²	15mm Ø RSC
5	12	CONVINIENCE OUTLET	2.40				10.43		30	50	2P	7.5	2-3.5mm² THHN/THWN, E-2.0mm²	20mm Ø PVC
6	8	CONVINIENCE OUTLET	1.44				6.54		20	50	2P	7.5	2-3.5mm² THHN/THWN, E-2.0mm²	20mm Ø PVC
7	7	CONVINIENCE OUTLET	1.26				5.73		20	50	2P	7.5	2-3.5mm² THHN/THWN, E-2.0mm²	20mm Ø PVC
8		CCTV	0.60				2.60		20	50	2P	7.5	2-3.5mm² THHN/THWN, E-2.0mm²	15mm Ø RSC
9		CCTV	0.60				2.60		20	50	2P	7.5	2-3.5mm² THHN/THWN, E-2.0mm²	15mm Ø RSC
10		SPARE	1.00					4.34	20	50	2P	7.5	2-3.5mm² THHN/THWN, E-2.0mm²	20mm Ø PVC
9		SPARE	1.00					4.34	20	50	2P	7.5	2-3.5mm² THHN/THWN, E-2.0mm²	20mm Ø PVC
10		SPARE	1.00					4.34	20	50	2P	7.5	2-3.5mm² THHN/THWN, E-2.0mm²	20mm Ø PVC
	TOTAL		17.60			27.82	21.81	26.06						
COMPUTATION: IT=1.732 X 27.82 = 48.18 AMPS USE: 3-14mm² THHN in 32MM Ø RSC, 1-8.0mm² and 60 AT, 100 AF, 3P MAIN CIRCUIT BREAKER (G.E. BRAND, BOLT-ON) For Feeder Protection : Use 60AT,200AF, 3Phase 230V, MCCB Bolt on Type, Panelboard should be NEMA 1 Enclosure with front dead platecover with grounding busbar. All Breakers should be MCCB Bolt on Type, Thermal Magnetic, Industrial Type breaker (for all breakers)														



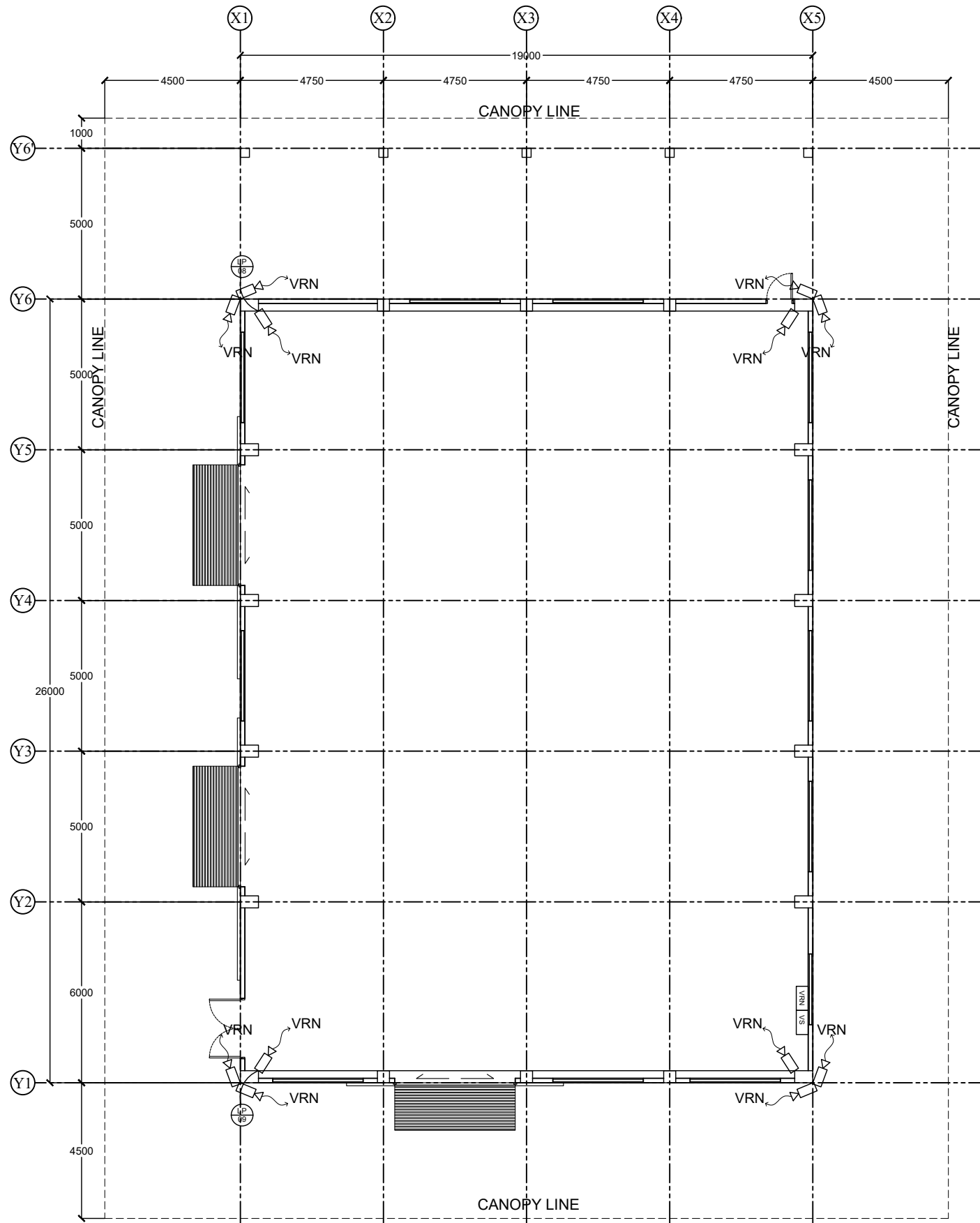
E2 :: LIGHTING LAYOUT

01 scale: 1:175



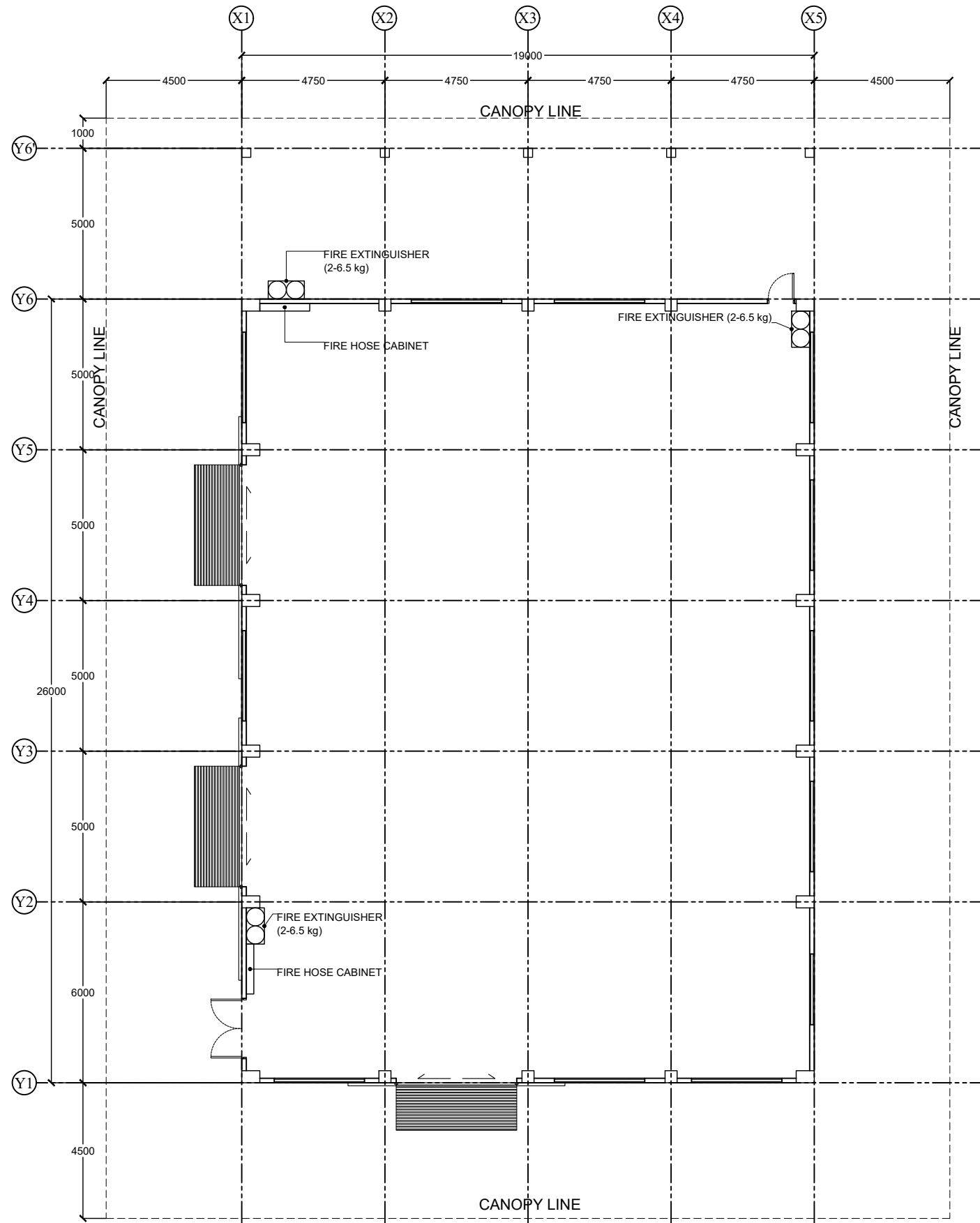
E2 :: POWER LAYOUT

01 scale: 1:175



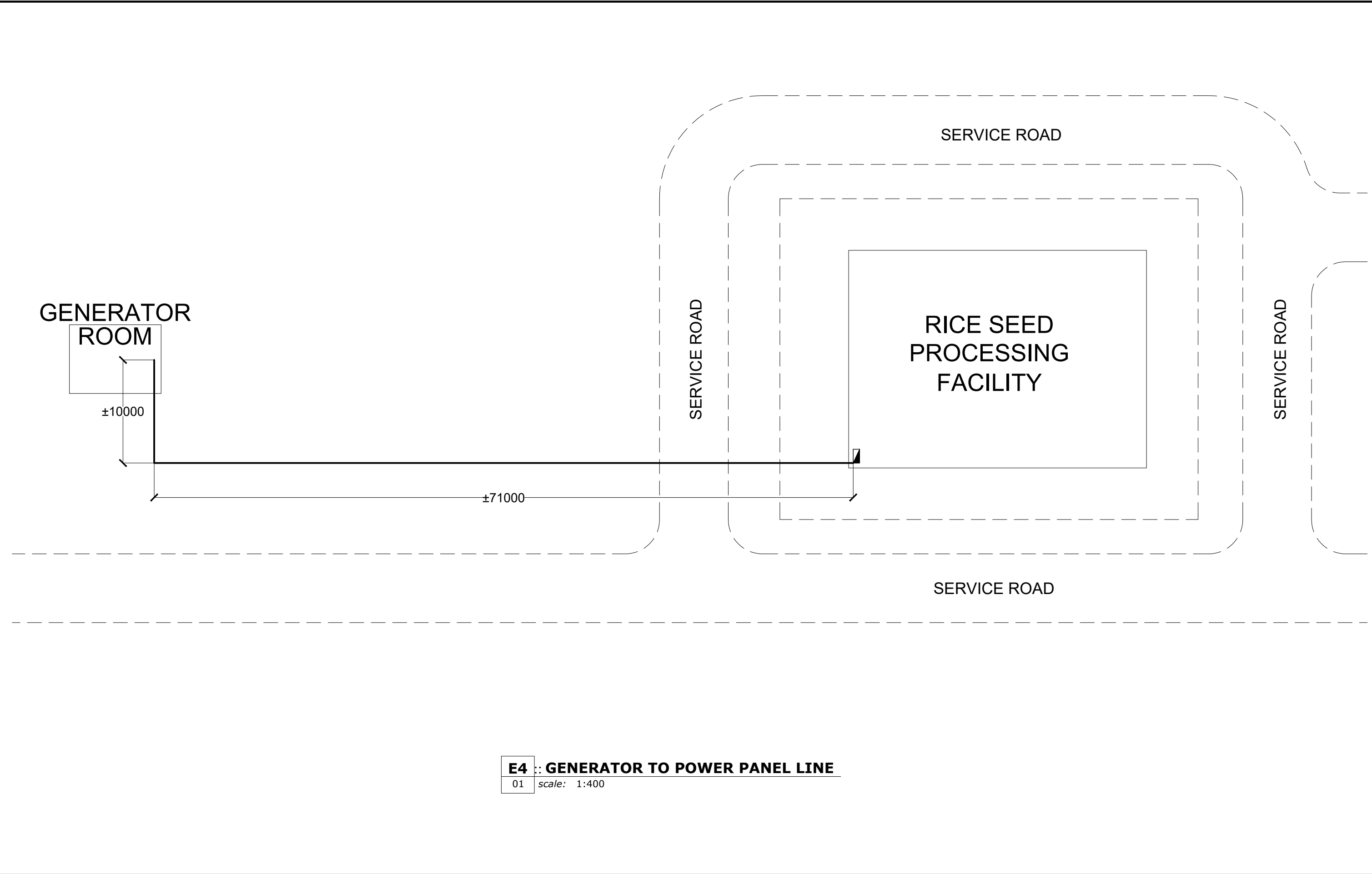
E3 :: VRN LAYOUT

01 scale: 1:175



E3 :: FACILITY FIRE FIGHTING PLAN

02 scale: 1:175



E4 :: GENERATOR TO POWER PANEL LINE
01 scale: 1:400

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								DATE: JULY, 2023		
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								DATE: JULY, 2023		
								CHECKED BY: RBB	23	23