



A1

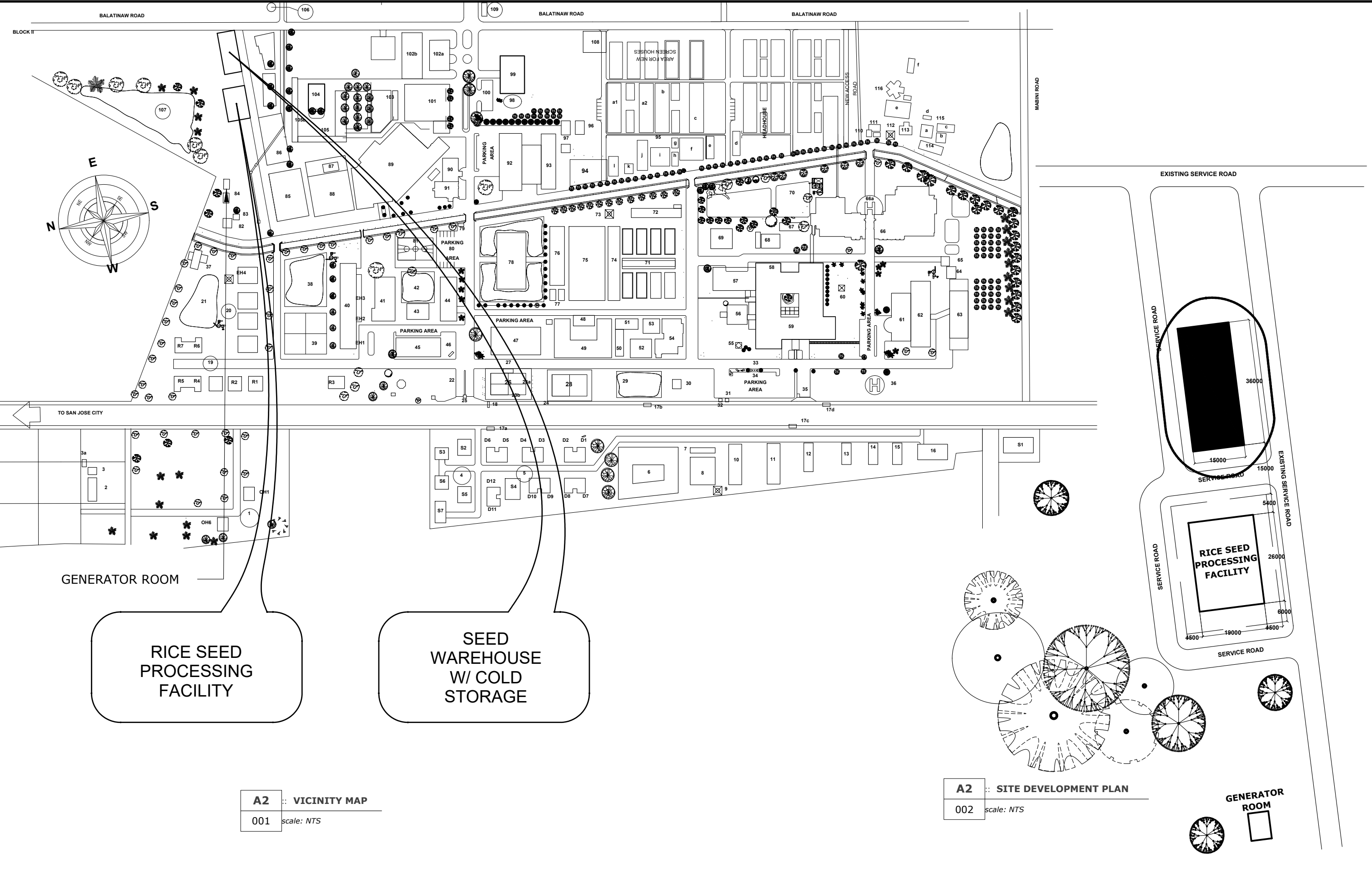
001

:: PERSPECTIVE

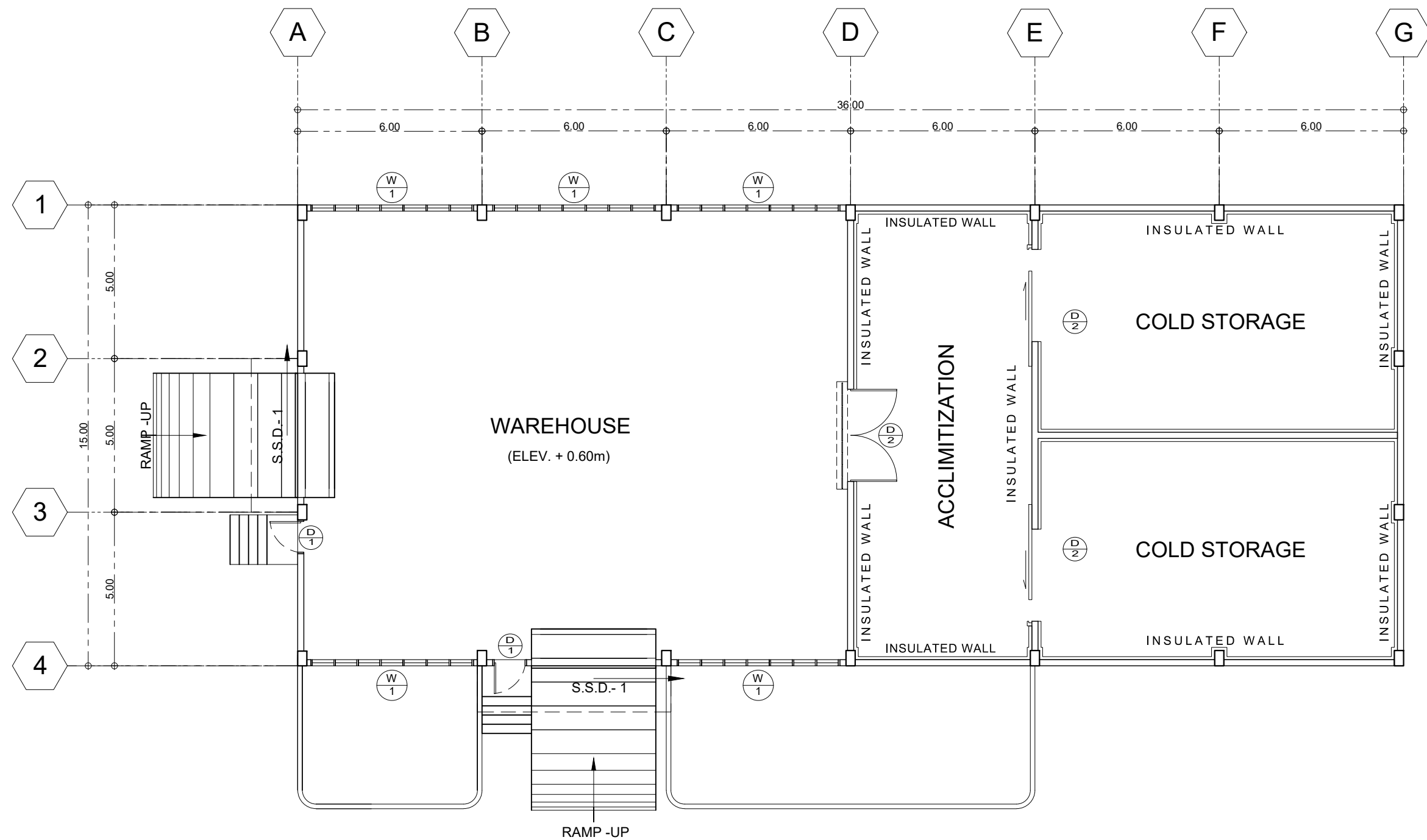
scale: NTS

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	AND WALL DETAILS		
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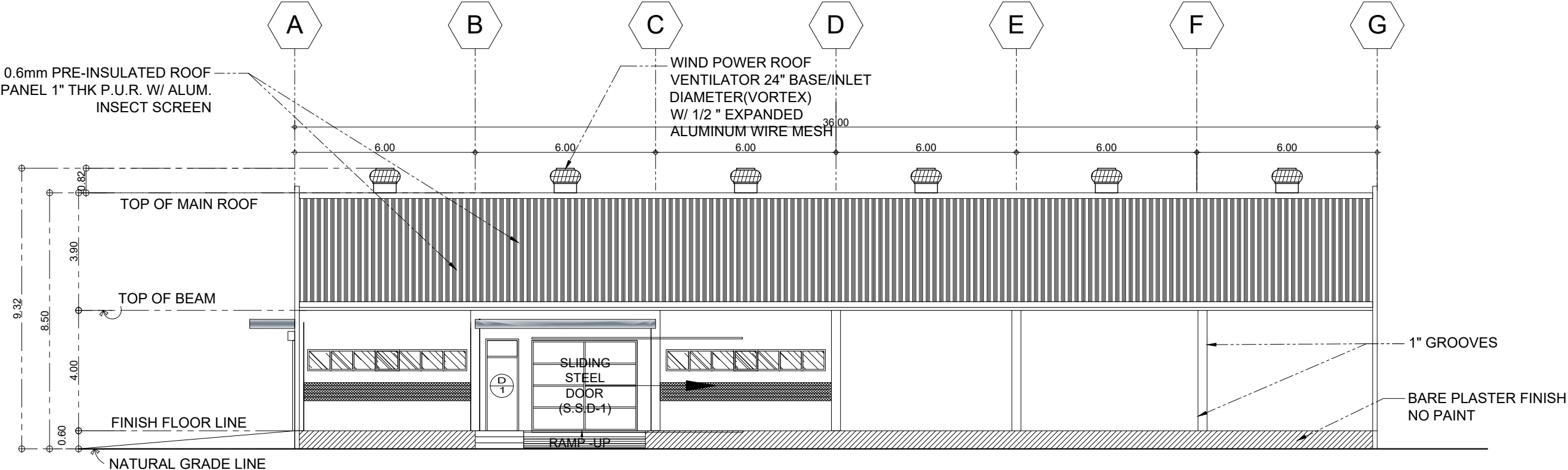




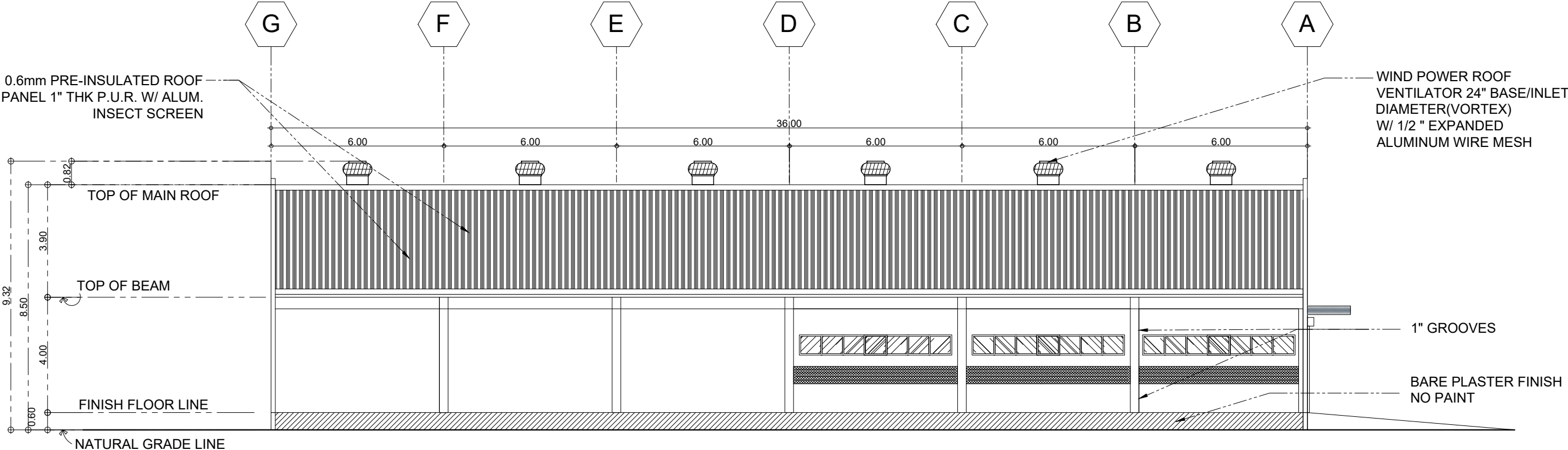


# FLOOR PLAN

SCALE 1 : 1 5 0 M

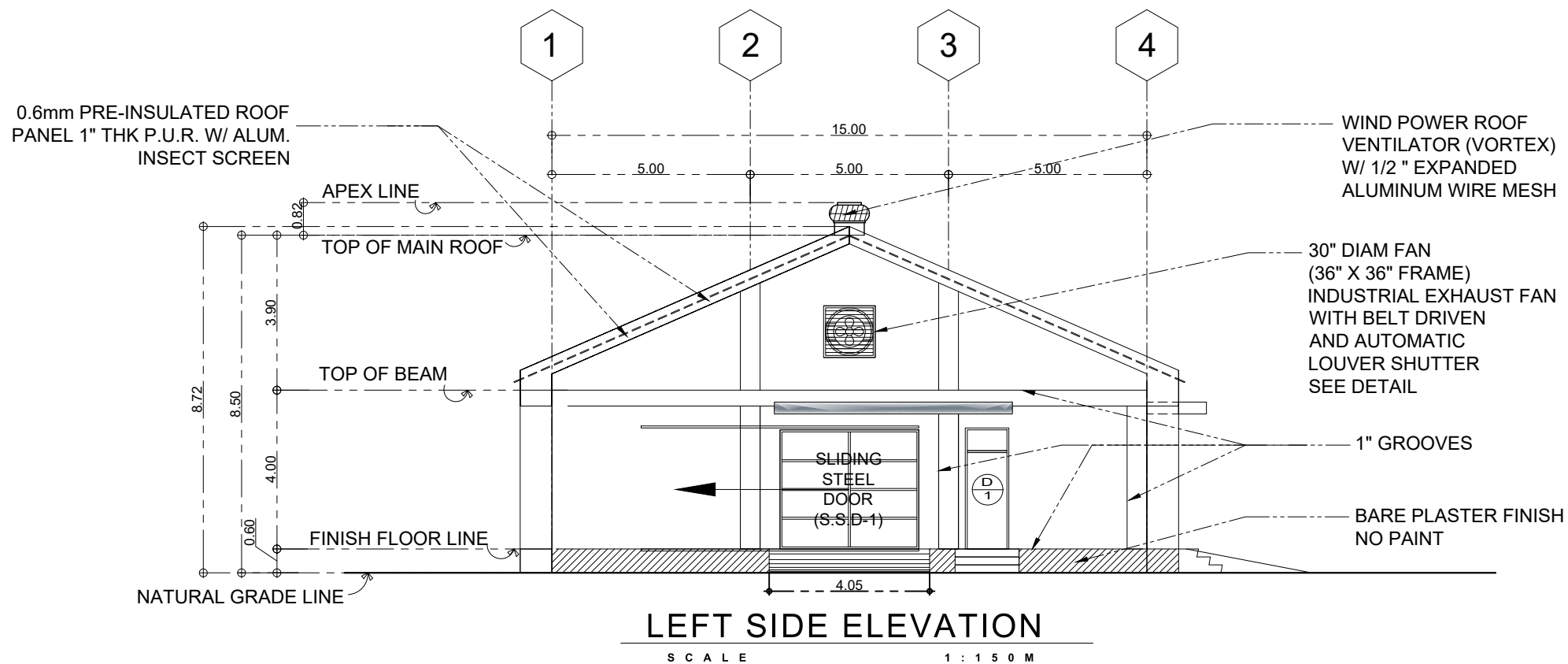
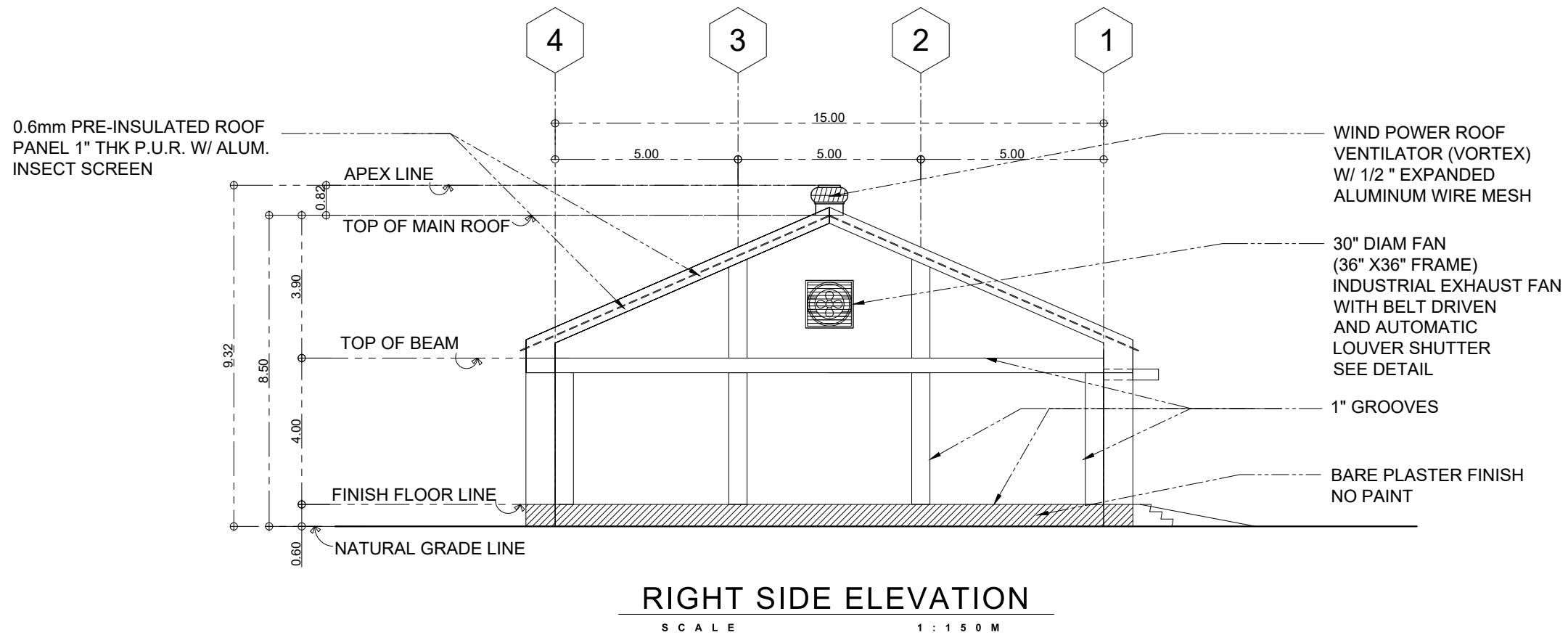


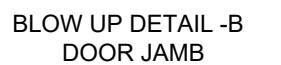
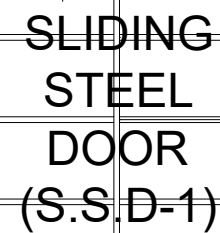
FRONT ELEVATION  
SCALE 1 : 1 5 0 M

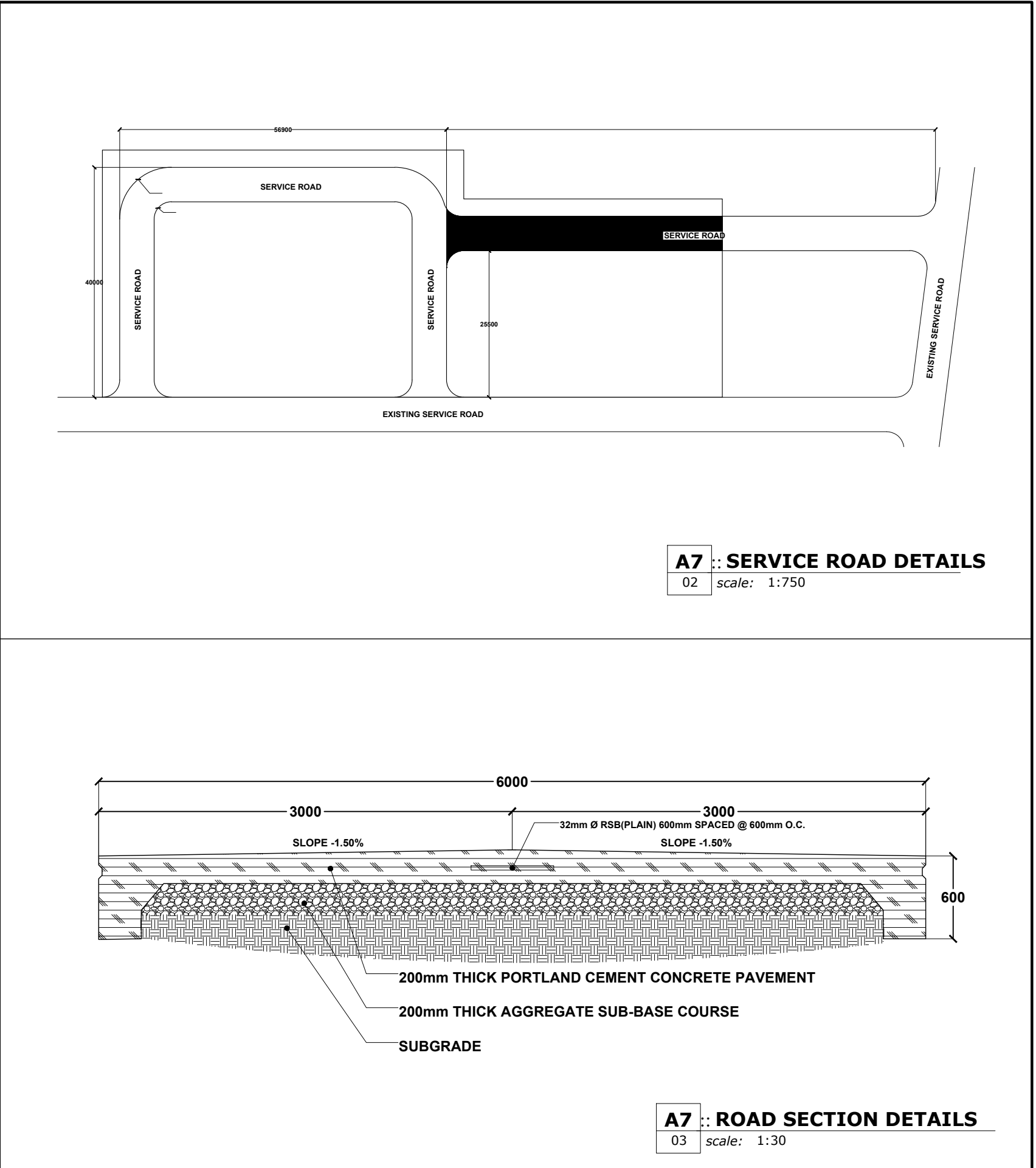
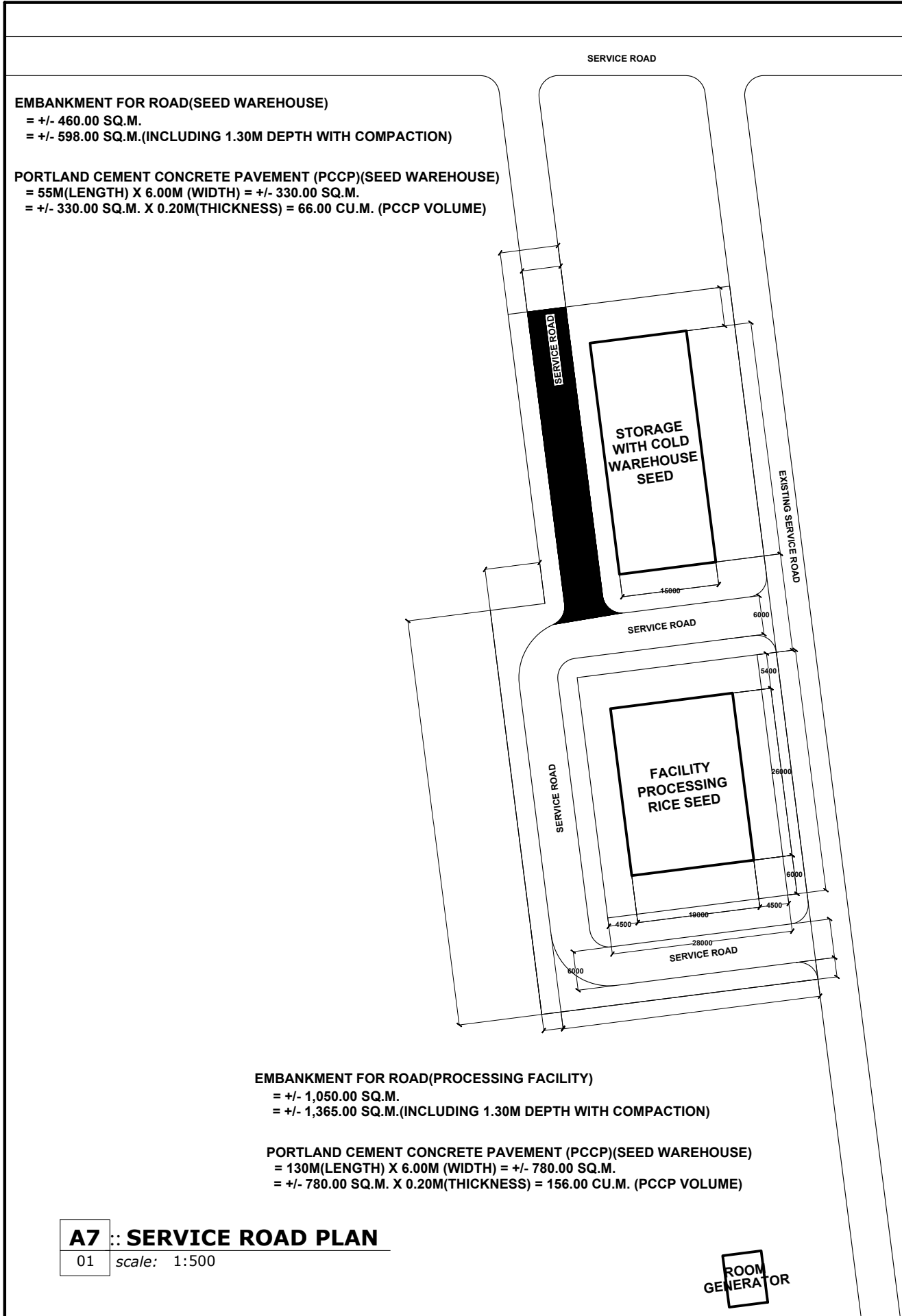


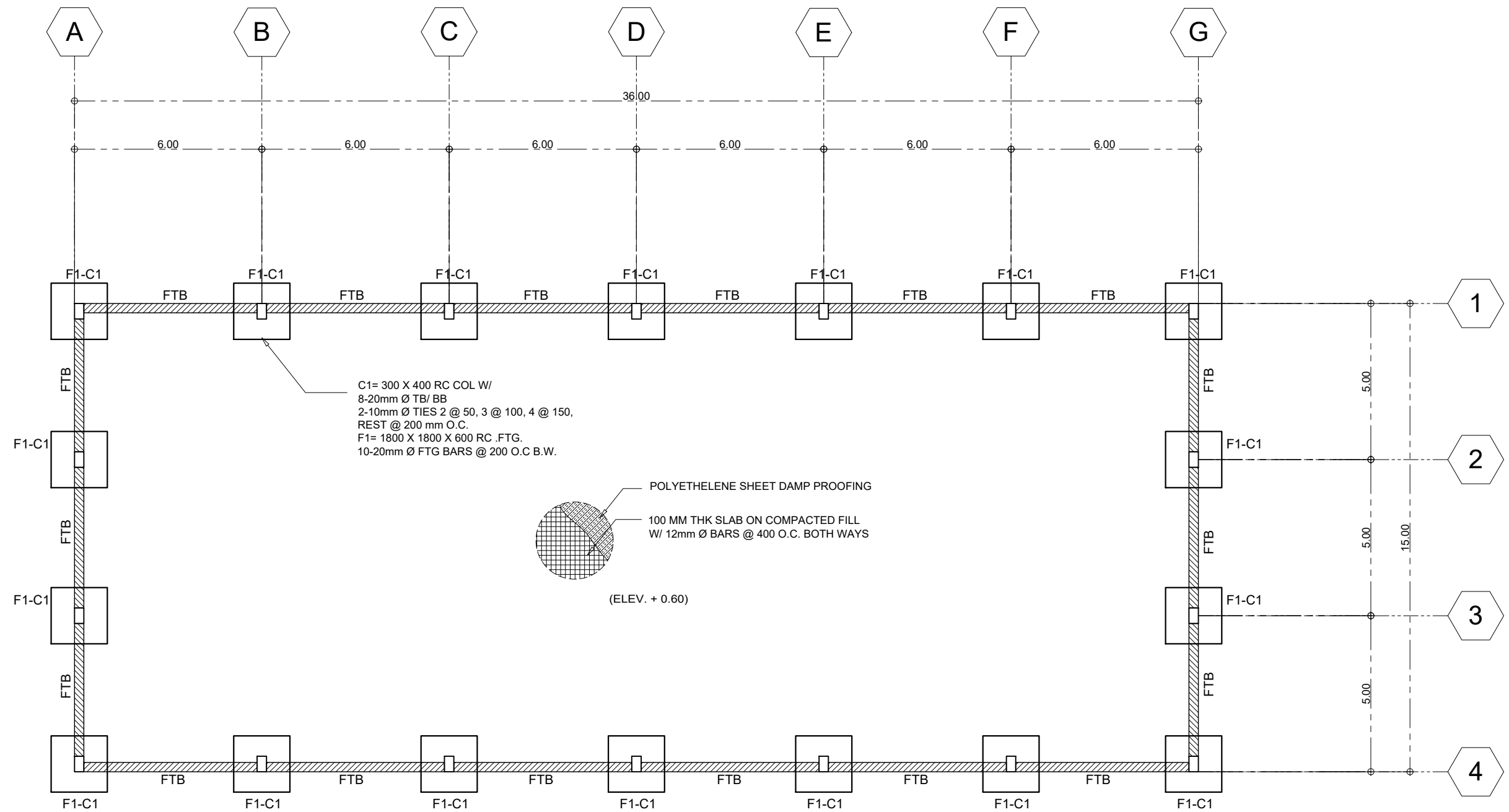
REAR ELEVATION  
SCALE 1 : 1 5 0 M

<div><div>PHILRICE</div><div>PHILIPPINE RICE RESEARCH INSTITUTE</div><div>CENTRAL EXPERIMENT STATION</div><div>MALIGAYA, MUNOZ CITY, NUEVA ECUA</div></div>	<div>R.A. 9266 - ART. 3, SECTION 20</div> <div>Drawings and Specifications duly signed, stamped or sealed, as instruments of service are the intellectual properties and documents of the architect, whether the object for which they are made is executed or not. It shall be unlawful for any person, without the consent of the architect or author of said documents, to duplicate or to make copies of said documents for use in the repetition of and for other projects or buildings, whether executed partly or in whole.</div>	PROJECT TITLE:	PREPARED BY:	CHECKED & REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED:	DESIGN BY: RBB	SHEET NUMBER:				
		<div>SEED WAREHOUSE WITH COLD STORAGE</div> <div>PhilRice CES</div> <div>MALIGAYA, MUNOZ CITY, NUEVA ECUA</div>	<div>Engr. DARYL F. GENERAL</div> <div>Civil Engineer, PPD</div> <div>PHILRICE-CES</div>	<div>Dr. PAULINO S. RAMOS</div> <div>Division Head, REMD</div> <div>PHILRICE</div>	<div>LUIS ALEJANDRE I. TAMANI</div> <div>Division Head, ISD</div> <div>PHILRICE</div>	<div>MR. MYONG JOON KIM</div> <div>Architectural / Engineering Expert</div> <div>GAPI</div>	<div>SOPHIA T. BORJA</div> <div>OIC, DED for ASF</div> <div>PHILRICE</div>	<div>Dr. JOHN C. DE LEON</div> <div>Executive Director</div> <div>PHILRICE</div>	<div>Dr. BYUNG KI LEE</div> <div>Project Manager</div> <div>GAPI</div>	DATE: JULY, 2023	<div>A4</div>	
										CADD BY: NGD		
										DATE: JULY, 2023	<div>4</div> <div>19</div>	
										CHECKED BY: RBB		







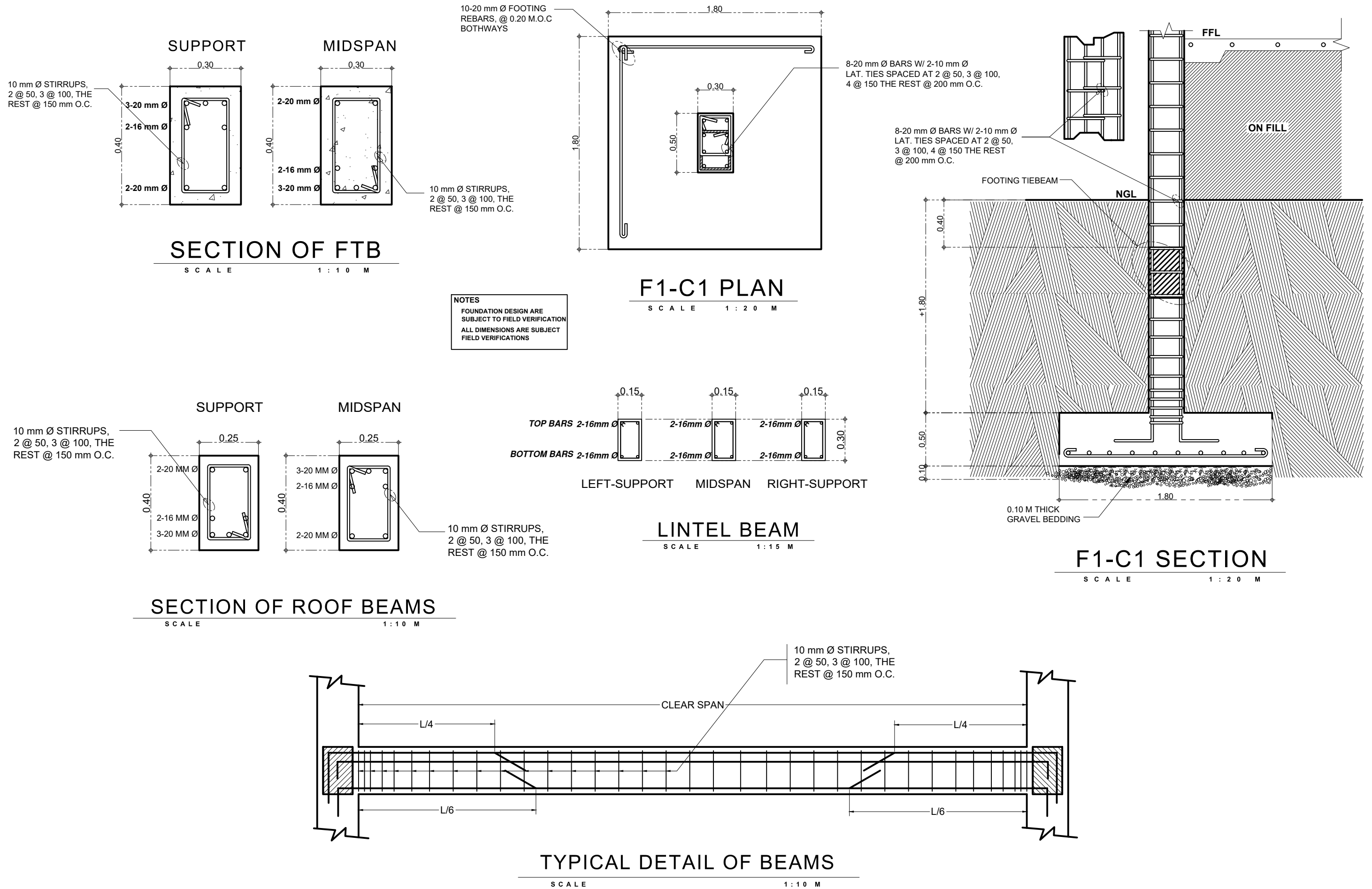


# FOUNDATION PLAN

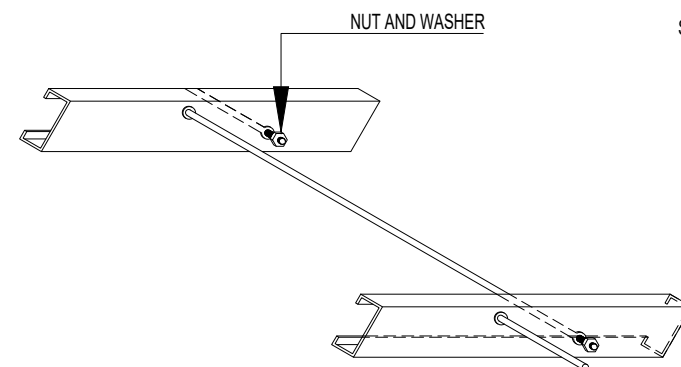
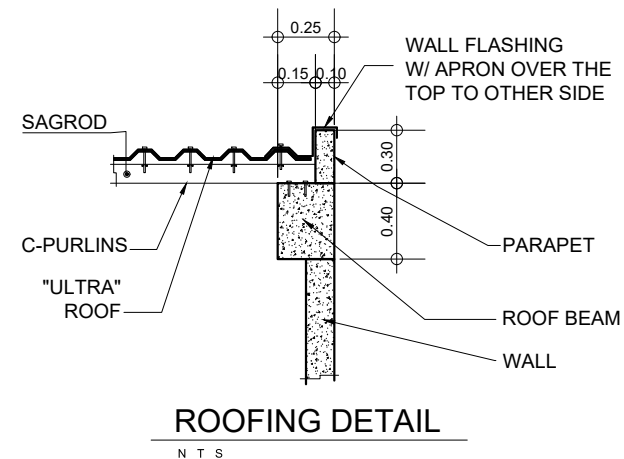
S C A L E

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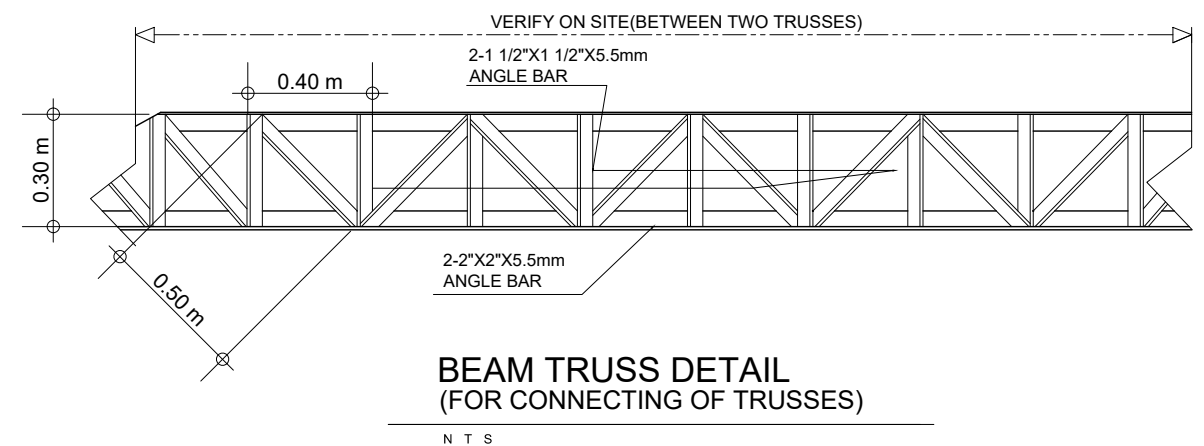


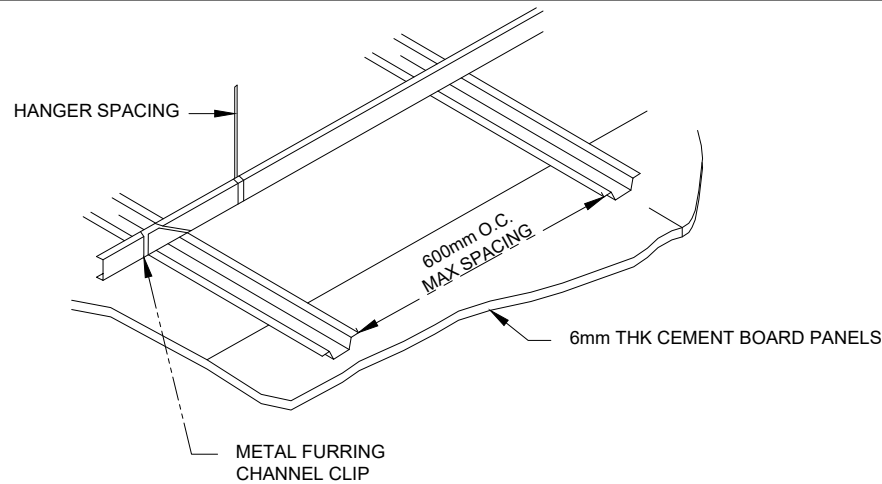






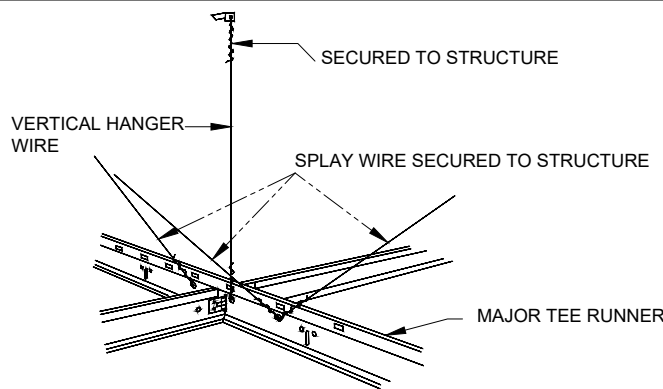
MARK	BM SIZE (mm)		LOC	REINF. SCHEDULE		SCHEDULE OF TIES
	B	D		SUPPORT	MIDSPAN	
FTB	300	400	TB	3-20mm Ø	2-16mm Ø	10mm Ø - 3 @ 100, 6 @ 150 rest @ 200 O.C.
			BB	2-20mm Ø	3-20mm Ø	
RB1	250	400	TB	3-20mm Ø	2-16mm Ø	10mm Ø - 3 @ 100, 6 @ 150 rest @ 200 O.C.
			BB	2-20mm Ø	4-20mm Ø	
LINTEL BM	150	300	TB	2-16mm Ø	2-16mm Ø	10mm Ø - 3 @ 100, 6 @ 150 rest @ 200 O.C.
			BB	2-16mm Ø	2-16mm Ø	
CANOPY BM	150	300	TB	2-16mm Ø	2-16mm Ø	10mm Ø - 3 @ 100, 6 @ 150 rest @ 200 O.C.
			BB	2-16mm Ø	2-16mm Ø	





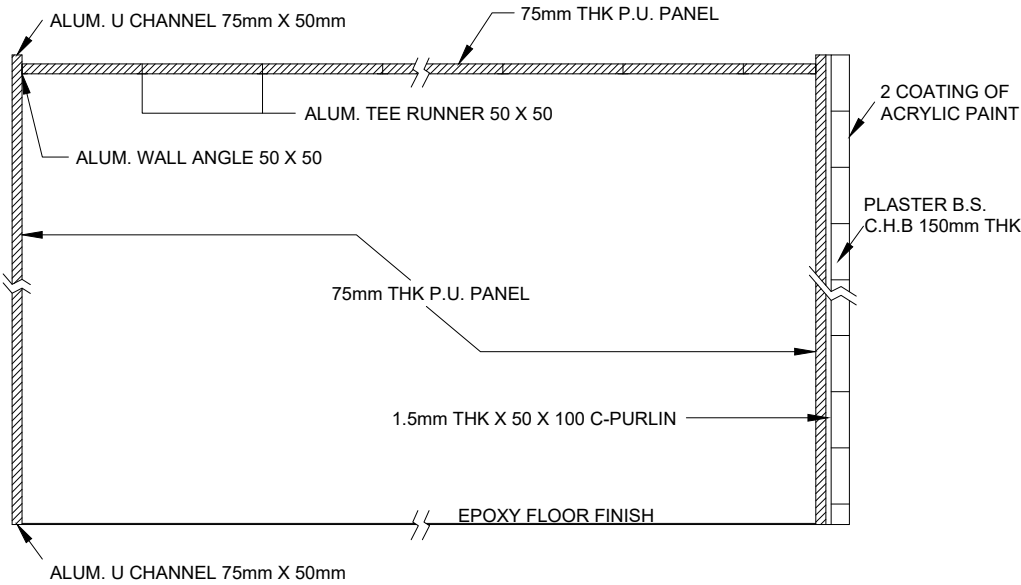
METAL FURRING INSTALLATION DETAILS

NTS



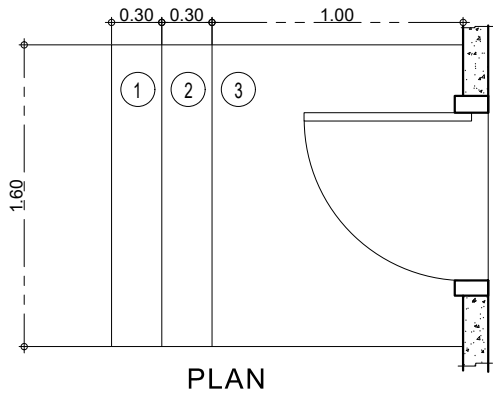
TEE RUNNER INSTALLATION DETAILS

NTS



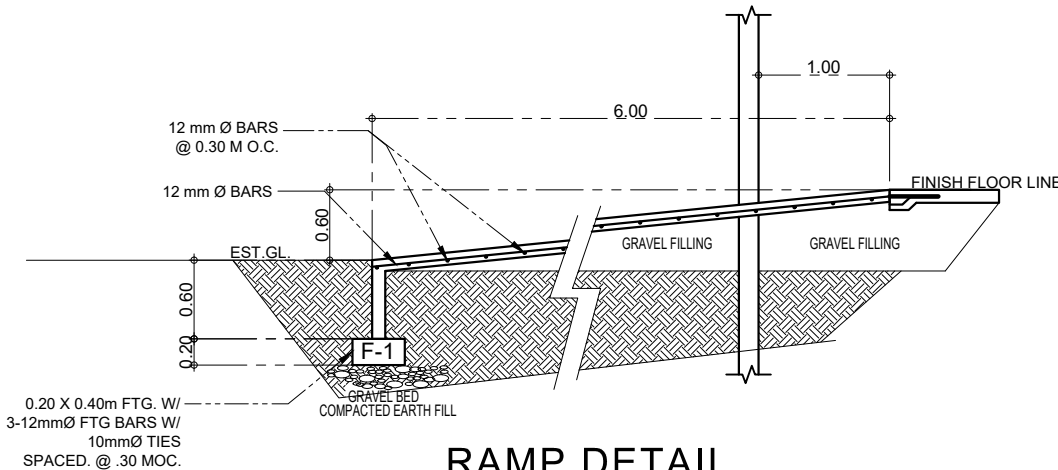
COLD ROOM P.U. PANEL AND WALL DETAIL

NTS



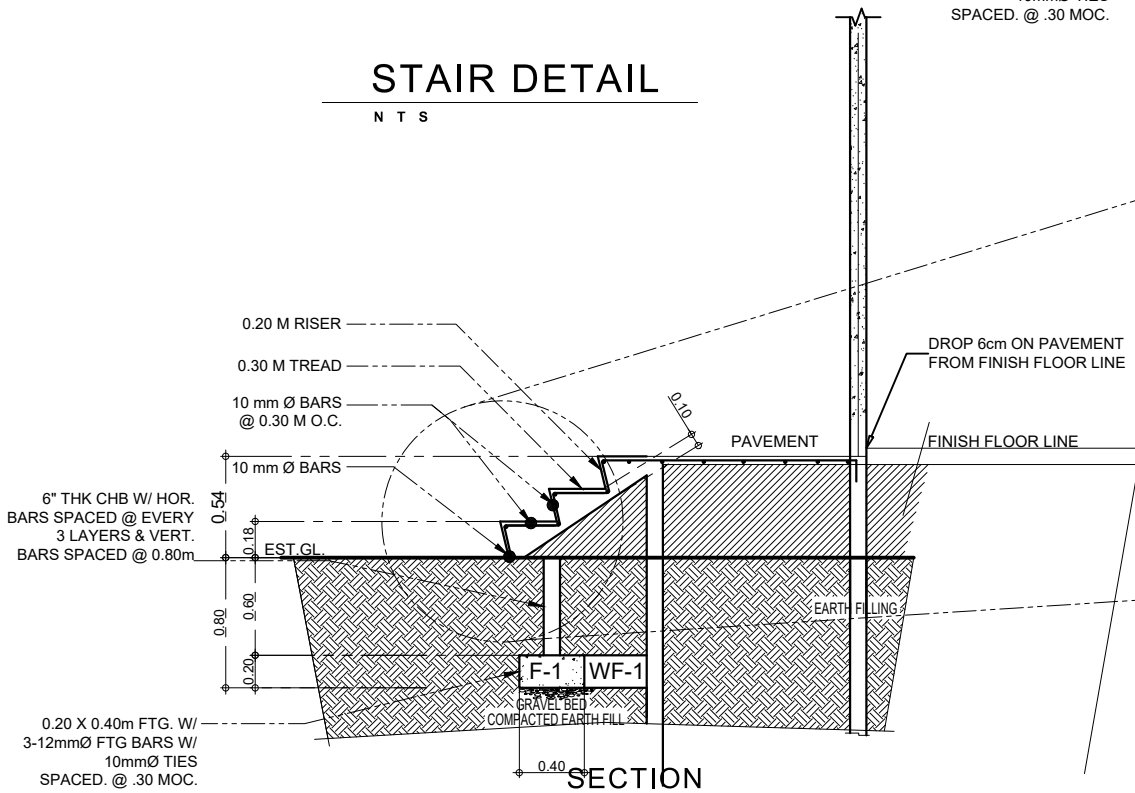
STAIR DETAIL

NTS



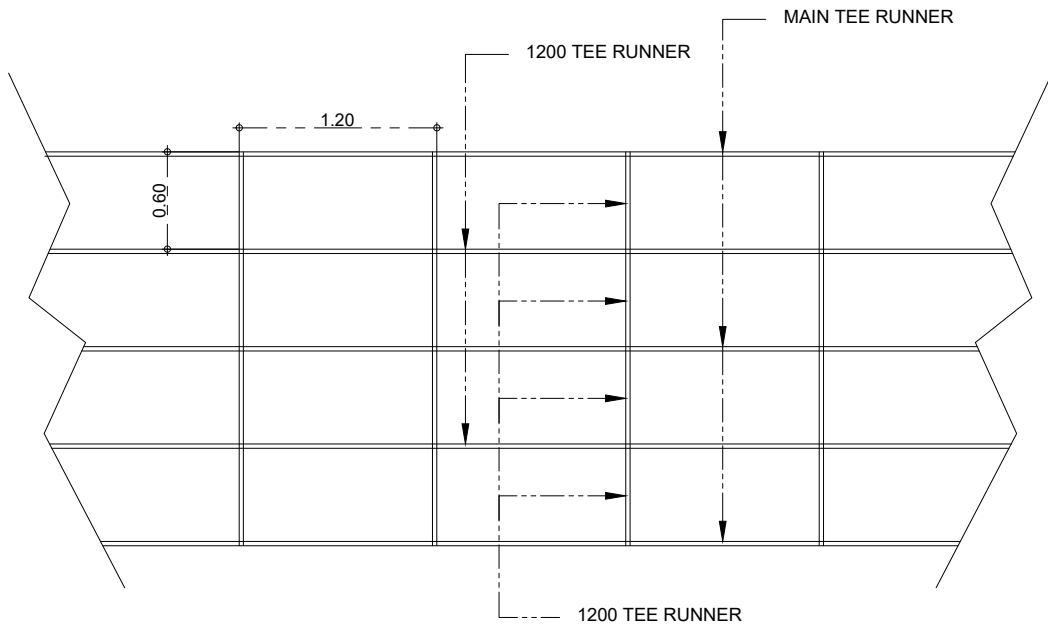
RAMP DETAIL

NTS



STEP BLOW UP DETAIL

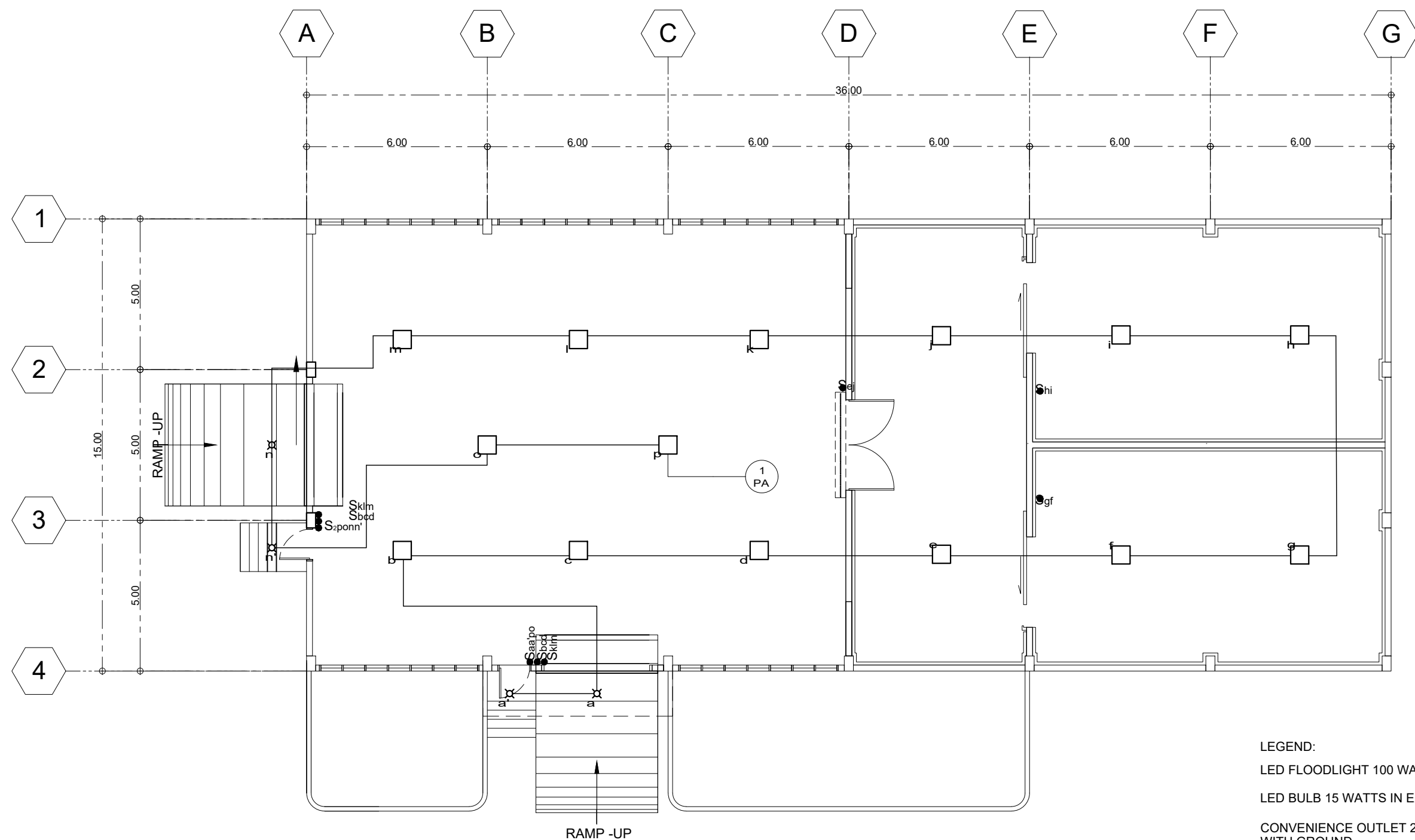
NTS



TEE RUNNER LAYOUT PLAN

NTS

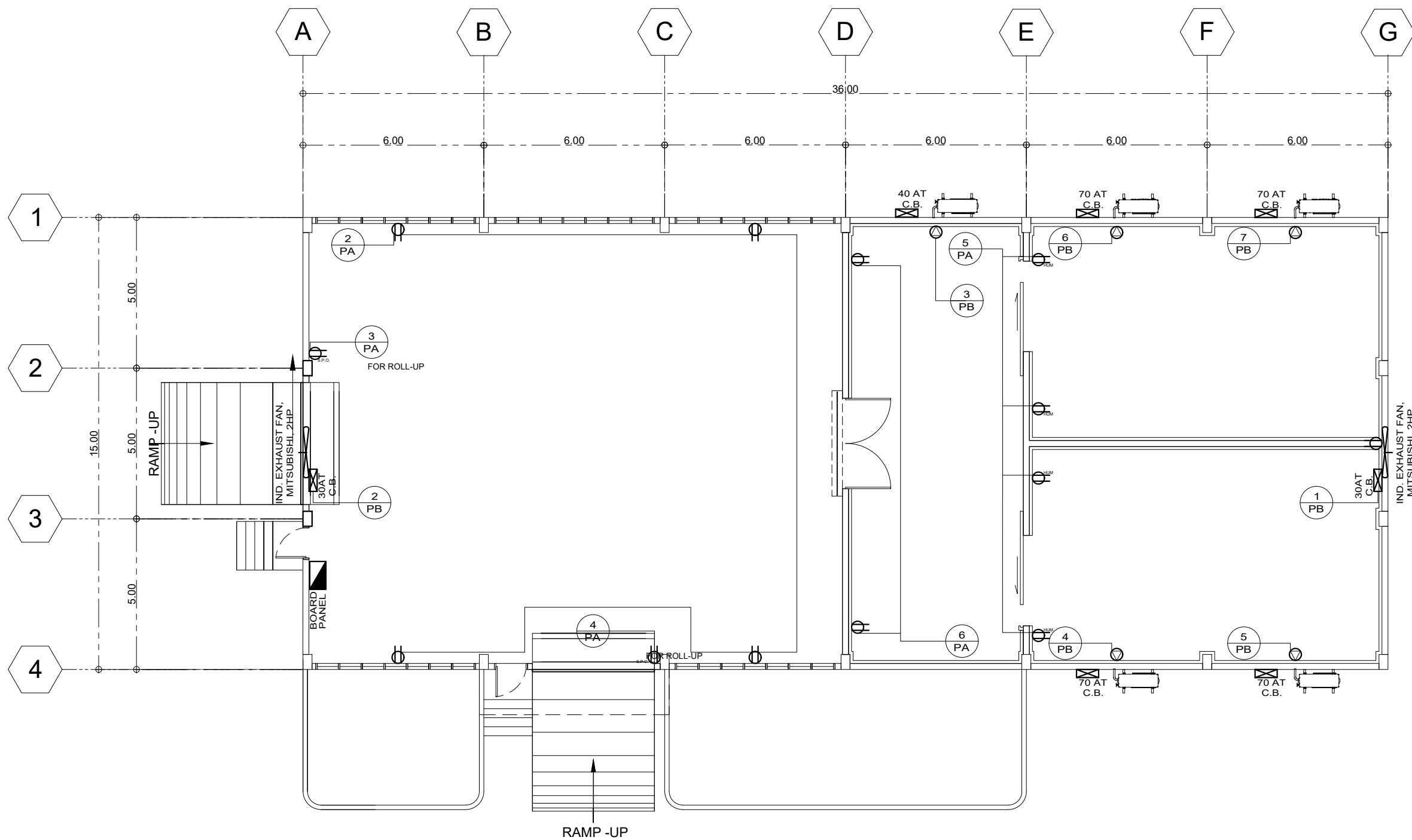




LIGHTING LAYOUT PLAN

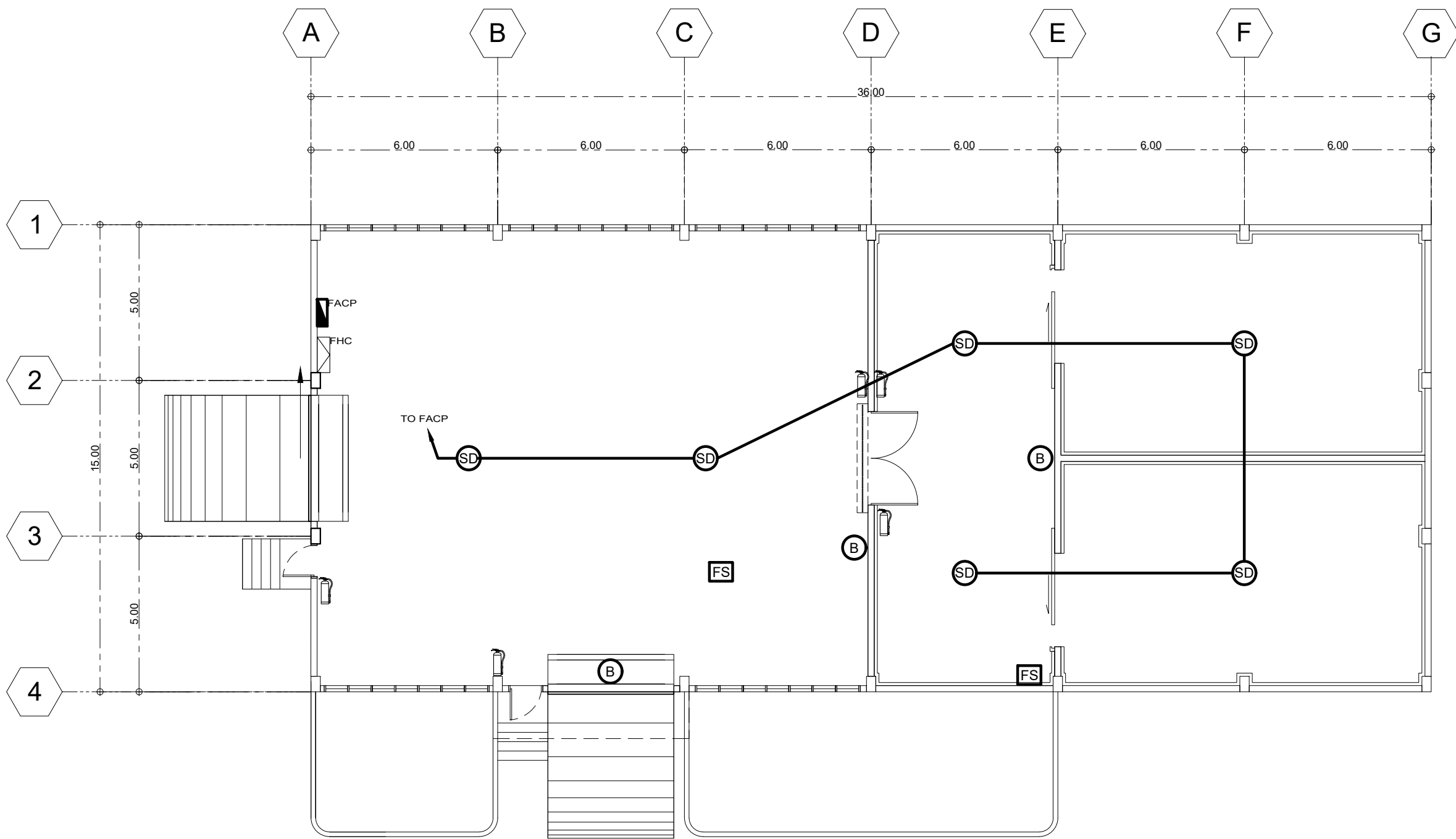
SCALE 1 : 1 5 0 M

- LEGEND:
- LED FLOODLIGHT 100 WATTS
  - LED BULB 15 WATTS IN E27 RECEPTACLE
  - CONVENIENCE OUTLET 2 GANG UNIVERSAL WITH GROUND
  - INDUSTRIAL EXHAUST FAN
  - SPECIAL PURPOSE OUTLET
  - HUMIDIFIER OUTLET
  - A.C.U. OUTLET
  - CONDENSER
  - CIRCUIT BREAKER



POWER LAYOUT PLAN

SCALE 1 : 1 5 0 M

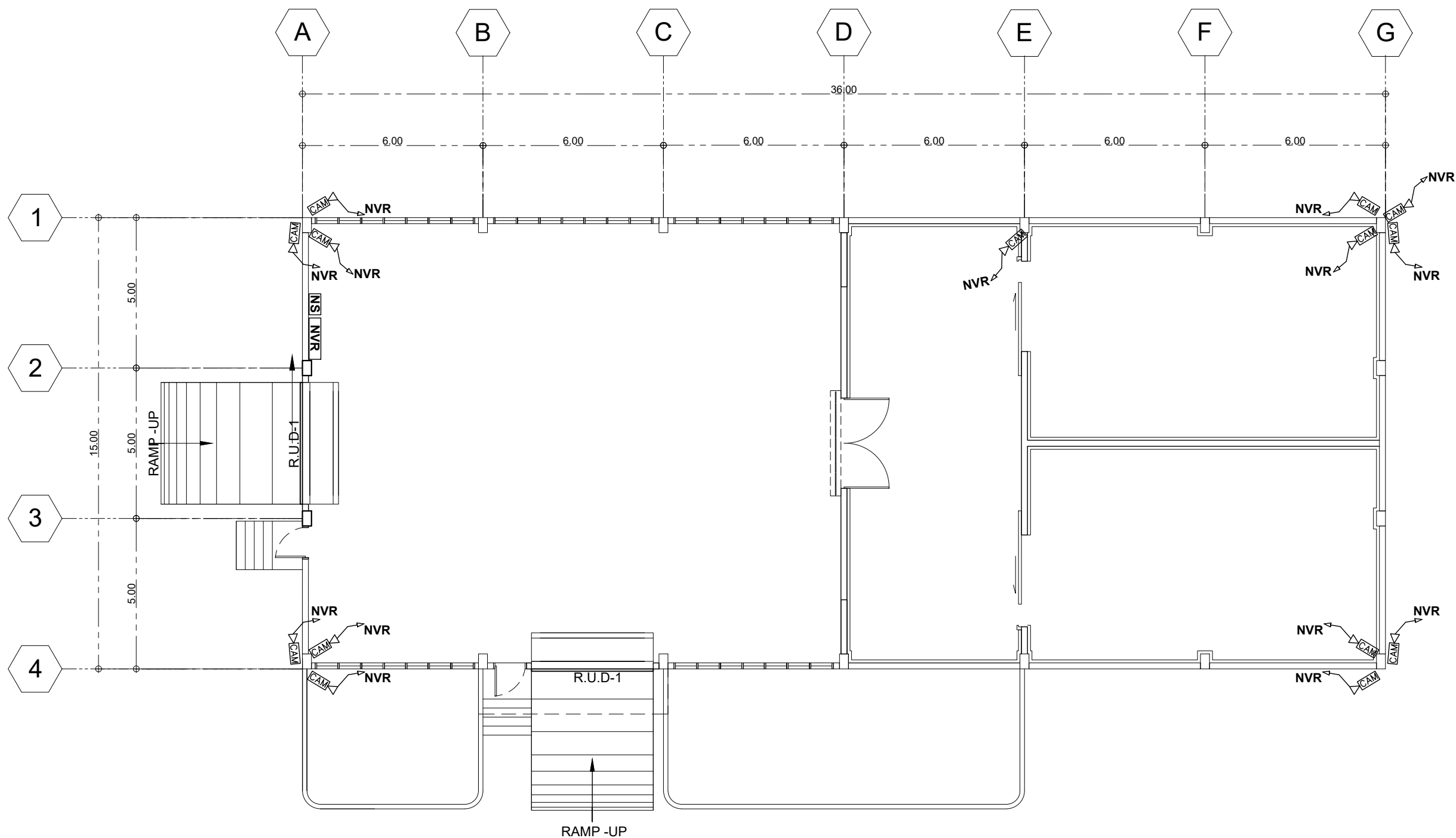


FIRE DETECTION AND ALARM SYSTEM

S C A L E

1 : 1 5 0 M

- LEGEND:
- FIRE HOSE CABINET
  - FIRE ALARM CONTROL PANEL
  - SMOKE DETECTOR
  - FIRE ALARM BELL
  - 5KG MULTI-PURPOSE FIRE EXTINGUISHER
  - FIRE ALARM MANUAL STATION



CCTV LAYOUT PLAN

SCALE 1 : 1 5 0 M

LEGEND:

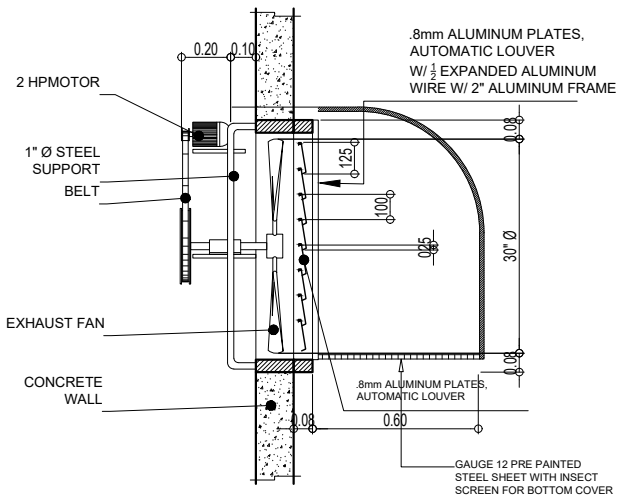
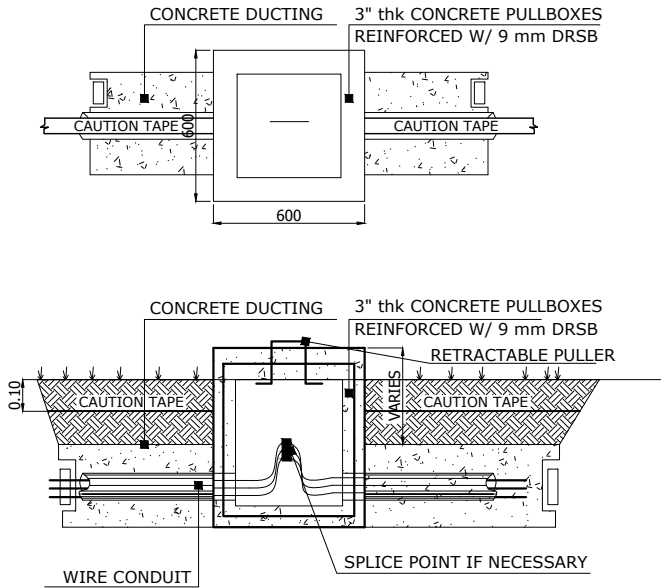
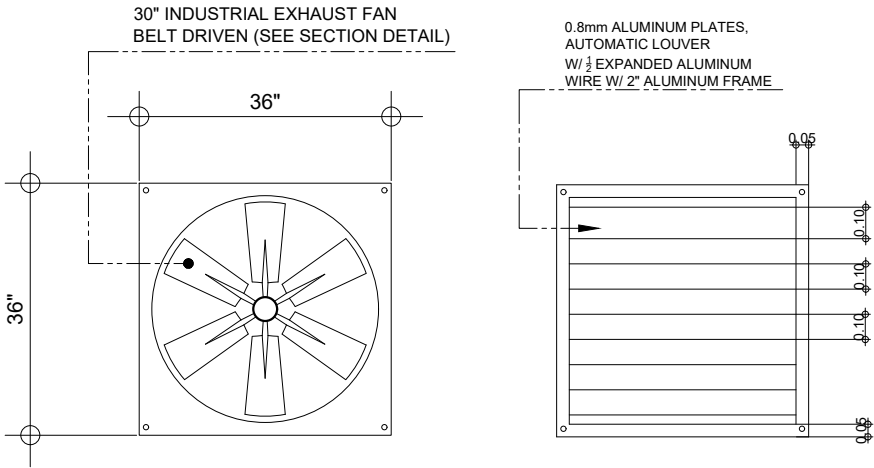
NETWORK VIDEO RECORDER

NETWORK SWITCH

CAMERA

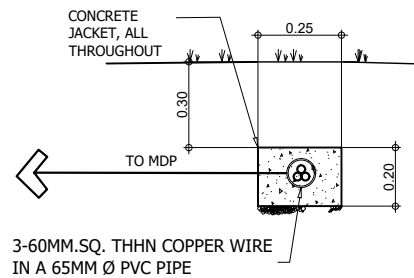






SECTION DETAIL OF EXHAUSTFAN & AUTOMATIC LOUVER

SCALE 1 : 20 M

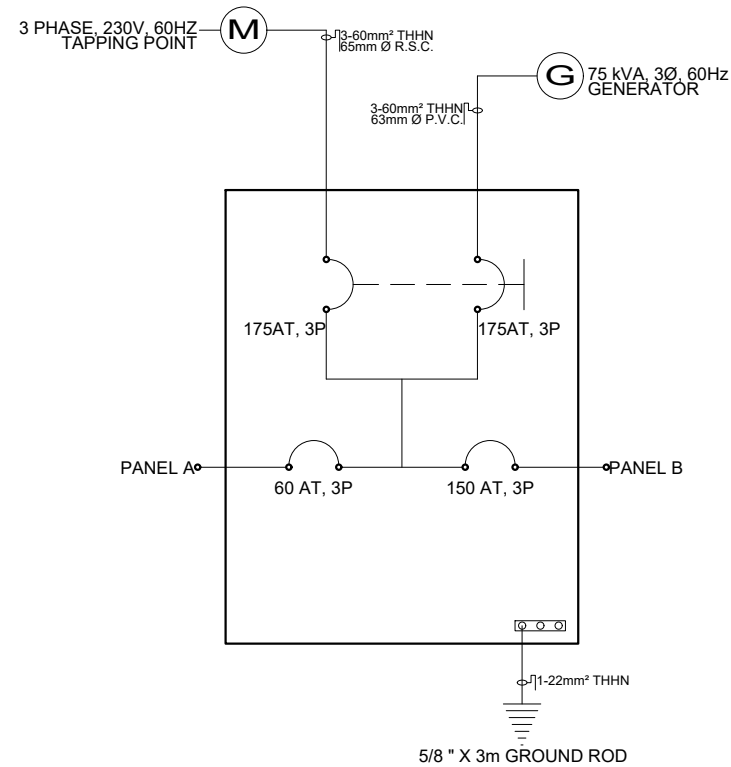


UNDERGROUND SERVICE LINE DETAIL

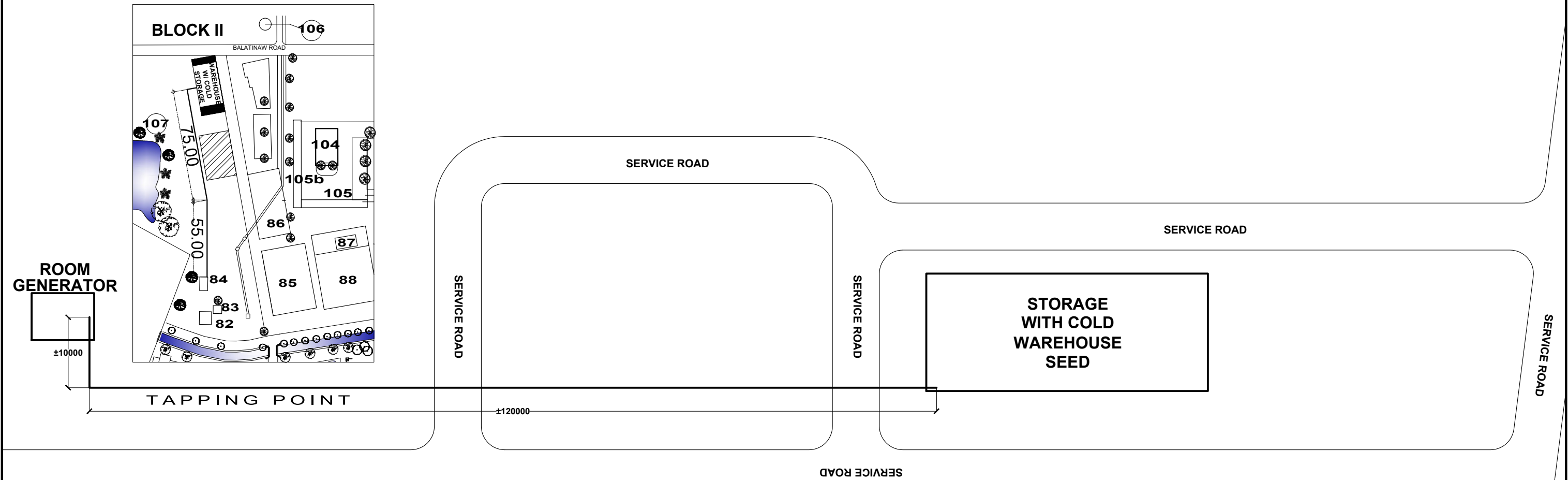
N T S

PANEL A															
CKT.NO	LOAD DESCRIPTION	NO. OF OUTLETS	VOLTAGE	TOTAL VA	AMP/CKT	AMP/PHASE			CKT. PROTECTION			SIZE OF WIRE		SIZE OF CONDUIT	
						AB	BC	CA	AT	AF	P	mm <sup>2</sup>	TYPE	Ø	TYPE
1	LIGHTING OUTLET	18	230	1800	7.83	7.83			15	50	2	2-3.5	THHN	15 Ø	PVC
2	CONVENIENCE OUTLET	4	230	1440	3.47	3.47			20	50	2	2-3.5	THHN	20 Ø	PVC
3	S.P.O.	1	230	2760	12.00		12.00		20	50	2	2-5.5	THHN	20 Ø	PVC
4	S.P.O.	1	230	2760	12.00			12.00	20	50	2	2-5.5	THHN	20 Ø	PVC
5	HUM. OUTLET	4	230	1440	3.47	3.47			30	50	2	2-3.5	THHN	20 Ø	PVC
6	ACCL. ROOM OUTLET	2	230	720	1.74		1.74		20	50	2	2-3.5	THHN	20 Ø	PVC
7	SPARE							3.00	20	50	2	2-3.5	THHN	20 Ø	PVC
8	SPARE						2.00		20	50	2	2-3.5	THHN	20 Ø	PVC
						14.77	15.74	15.00	60.00	100.00	3.0				
						Line Current = [1.732(15.74)+25%(12)] A									
						= 30.26 A									
						For Feeder Conductor = 1.25 x 30.26 = 37.83 A									
						Use 3 - 14.0mm <sup>2</sup> THHN cu.wire in a 20mmØPVC, 1-8.0mm <sup>2</sup> THHN GROUND WIRE, 25mm Ø PVC									
						For Feeder Protection									
						Use 60AT, 100AF, 3POLE,MCB (GE BRAND, BOLT-ON)									
						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)									

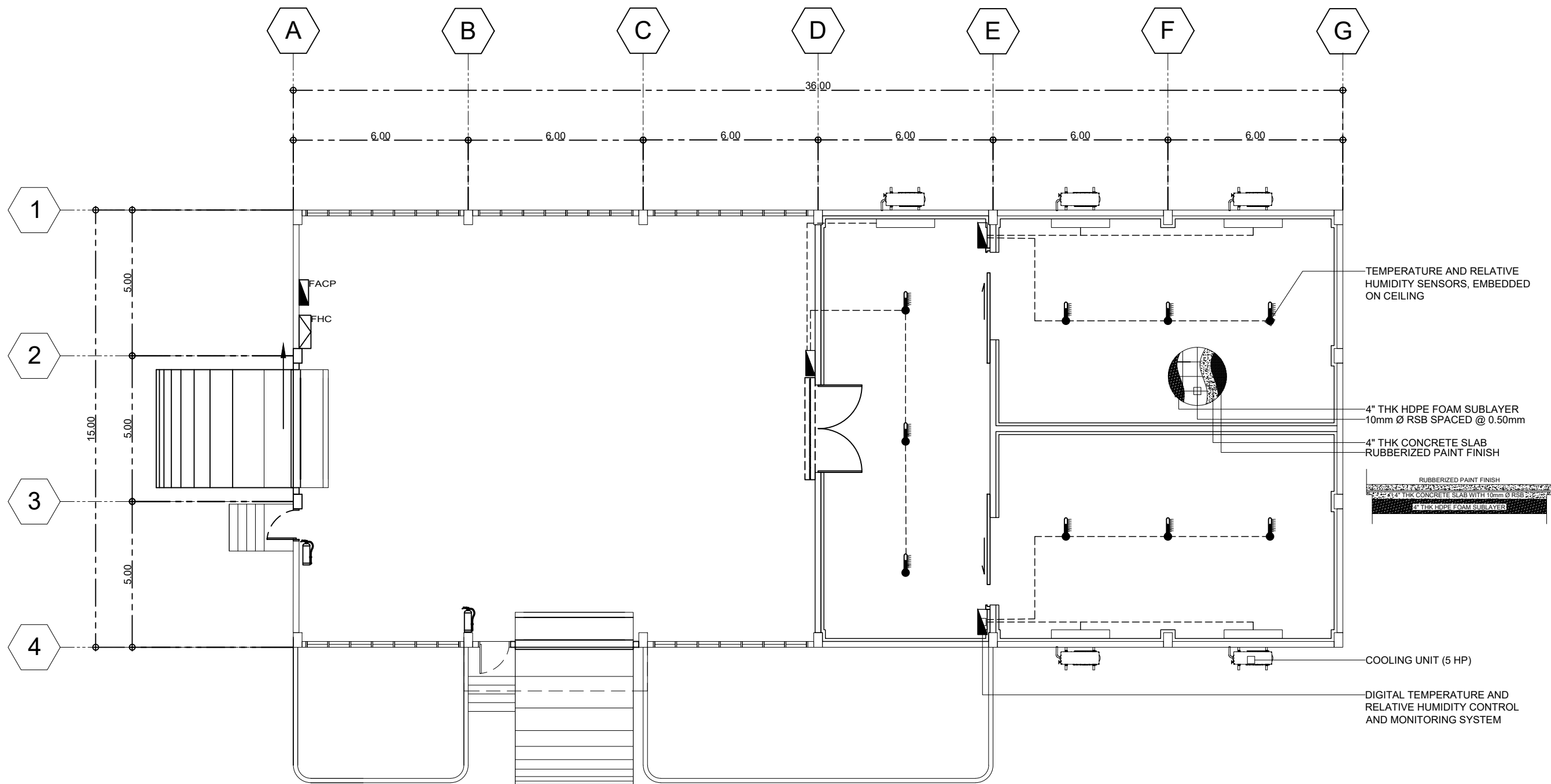
PANEL B															
CKT.NO	LOAD DESCRIPTION	NO. OF OUTLETS	VOLTAGE	TOTAL VA	AMP/CKT	AMP/PHASE			CKT. PROTECTION			SIZE OF WIRE		SIZE OF CONDUIT	
						AB	BC	CA	AT	AF	P	mm <sup>2</sup>	TYPE	Ø	TYPE
1	EXHAUST FAN (2HP)	1	230	2760	12.00			12.00	30	50	2	2-3.5	THHN	20 Ø	PVC
2	EXHAUST FAN (2HP)	1	230	2760	12.00			12.00	30	50	2	2-3.5	THHN	20 Ø	PVC
3	ACU (2.5HP)	1	230	3450	15.00		15.00		40	50	2	2-5.5	THHN	20 Ø	PVC
4	ACU (5HP)	1	230	6440	28.00	28.00			70	50	2	2-5.5	THHN	20 Ø	PVC
5	ACU (5HP)	1	230	6440	28.00			28.00	70	50	2	2-5.5	THHN	20 Ø	PVC
6	ACU (5HP)	1	230	6440	28.00		28.00		70	50	2	2-5.5	THHN	20 Ø	PVC
7	ACU (5HP)	1	230	6400	28.00	28.00			70	50	2	2-5.5	THHN	20 Ø	PVC
8	SPARE						12.00		30	50	2	2-3.5	THHN	20 Ø	PVC
						56.00	55.00	52.00	150.00	225.00	3.0	3 - 150	THHN	50 Ø	PVC
				</											



SINGLE LINE RISER DIAGRAM



**E6 :: GENERATOR TO POWER PANEL LINE**  
01 scale: 1:400



# COLD ROOM COOLING SYSTEM LAYOUT

SCALE

1 : 1 5 0 M

LEGEND:  
DIGITAL MONITORING SYSTEM  
TEMPERATURE AND HUMIDITY SENSOR