



PROJECT

- Renovation Server Room

FOR-CONTRACTION

SITENAME : National Cancer Institute สถาบันมะเร็งแห่งชาติ

PROVINCE : BANGKOK

PRESENT BY :

07-08-57

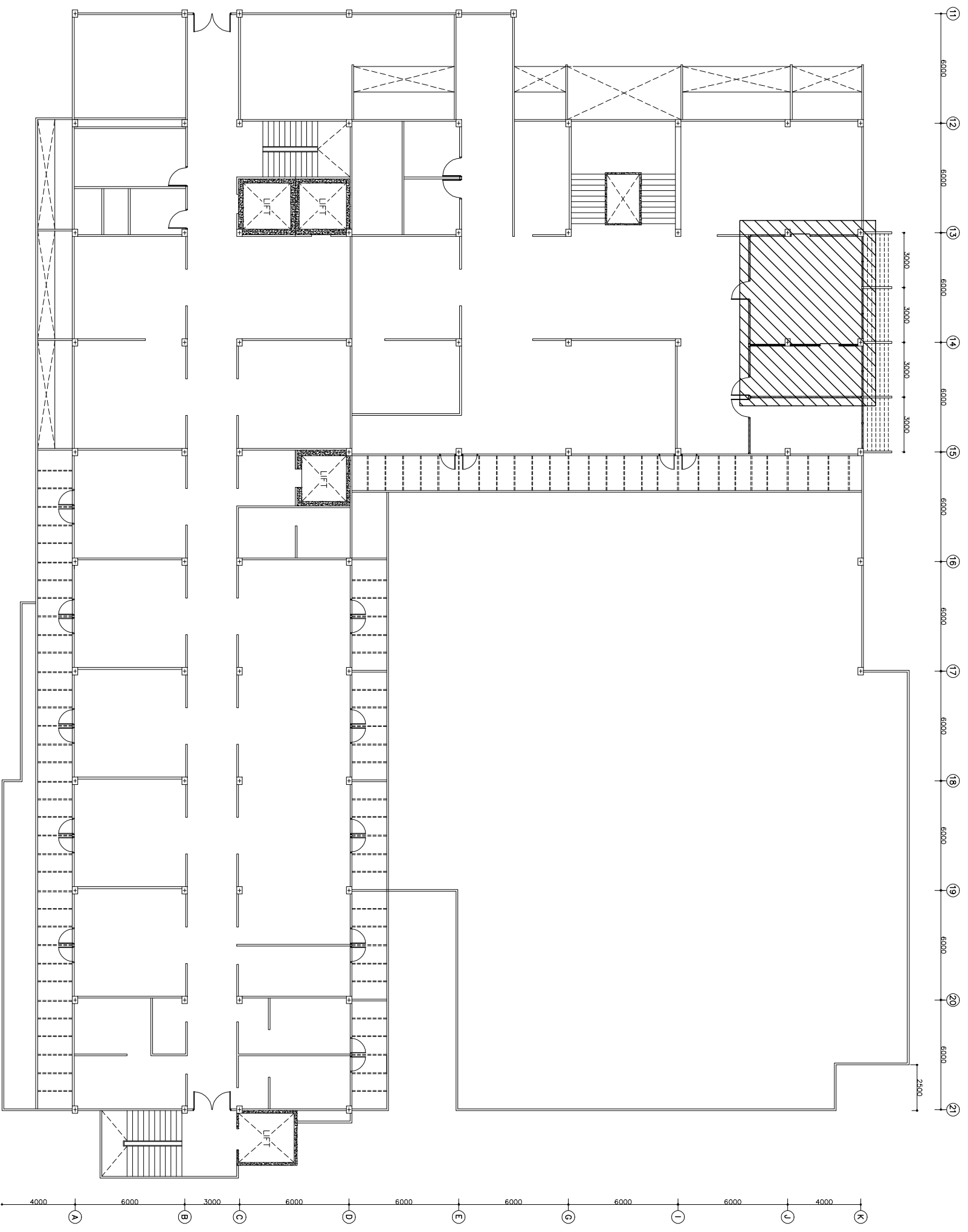
CONTRACTION

Renovation Server Room

SITENAME : National Cancer Institute สถาบันมะเร็งแห่งชาติ

PROVINCE : BANGKOK

ITEM	CONTENT	DRAWING NO.
1.	LOCATION LAYOUT FOR PLAN	SHEET 1
2.	INTERIOR LAYOUT FOR PLAN	SHEET 2
3.	Raised Floor For Plan	SHEET 3
4.	CEILING FOR PLAN	SHEET 4
5.	CHAIR LOAD FOR PLAN	SHEET 5
6.	Equipment For Plan	SHEET 6
7.	ROUTING MAIN POWER LAYOUT FOR PLAN	SHEET 7
8.	LIGHTING LAYOUT FOR PLAN	SHEET 8
9.	Reciticle For Plan	SHEET 9
10.	Emer & Exit For Plan	SHEET 10
11.	Cable Ladder For Power	SHEET 11
12.	Cable Basket For Plan	SHEET 12
13.	FM-200 Under Ceiling For Plan	SHEET 13
14.	FM-200 In Containment Room For Plan	SHEET 14
15.	Single Line Daigram	SHEET 15
16.	SECTION 1	SHEET 16
17.	SECTION 2	SHEET 17
18.	SECTION 3	SHEET 18
19.	DETAIL CONTAINMENT	SHEET 19
20.	ELEVATION 1	SHEET 20
21.	ELEVATION 2	SHEET 21
22.	ELEVATION 3	SHEET 22
23.	ELEVATION 4	SHEET 23
24.	SECTION 4	SHEET 24
25.	SECTION 5	SHEET 25
26.	DETAIL CONTAINMENT PART 1	SHEET 26
27.	DETAIL CONTAINMENT PART 2	SHEET 27
28.	TYPICAL DETAIL	SHEET 28



GENERAL NOTE :

DATE :

SPECIAL MENTIONDATE :

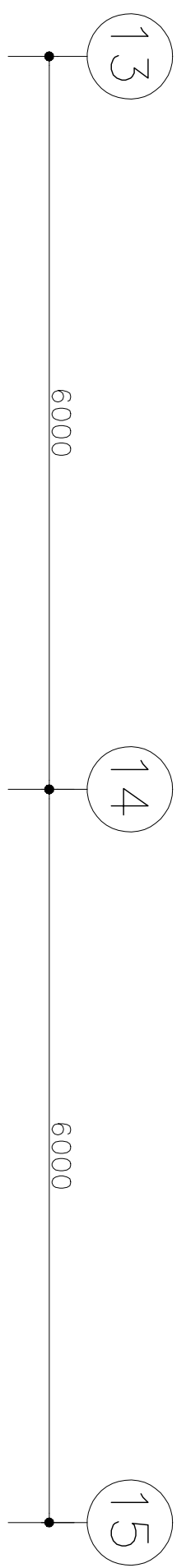


OWNER : National Cancer Institute สถาบันมะเร็งแห่งชาติ
 PROJECT : Renovation Server Room
 LOCATION : BANGKOK

TITLE OF DRAWG :
 LOCATION LAYOUT FOR PLAN
 SCALE : 1-250 (A3)
 DATE : 07-08-57

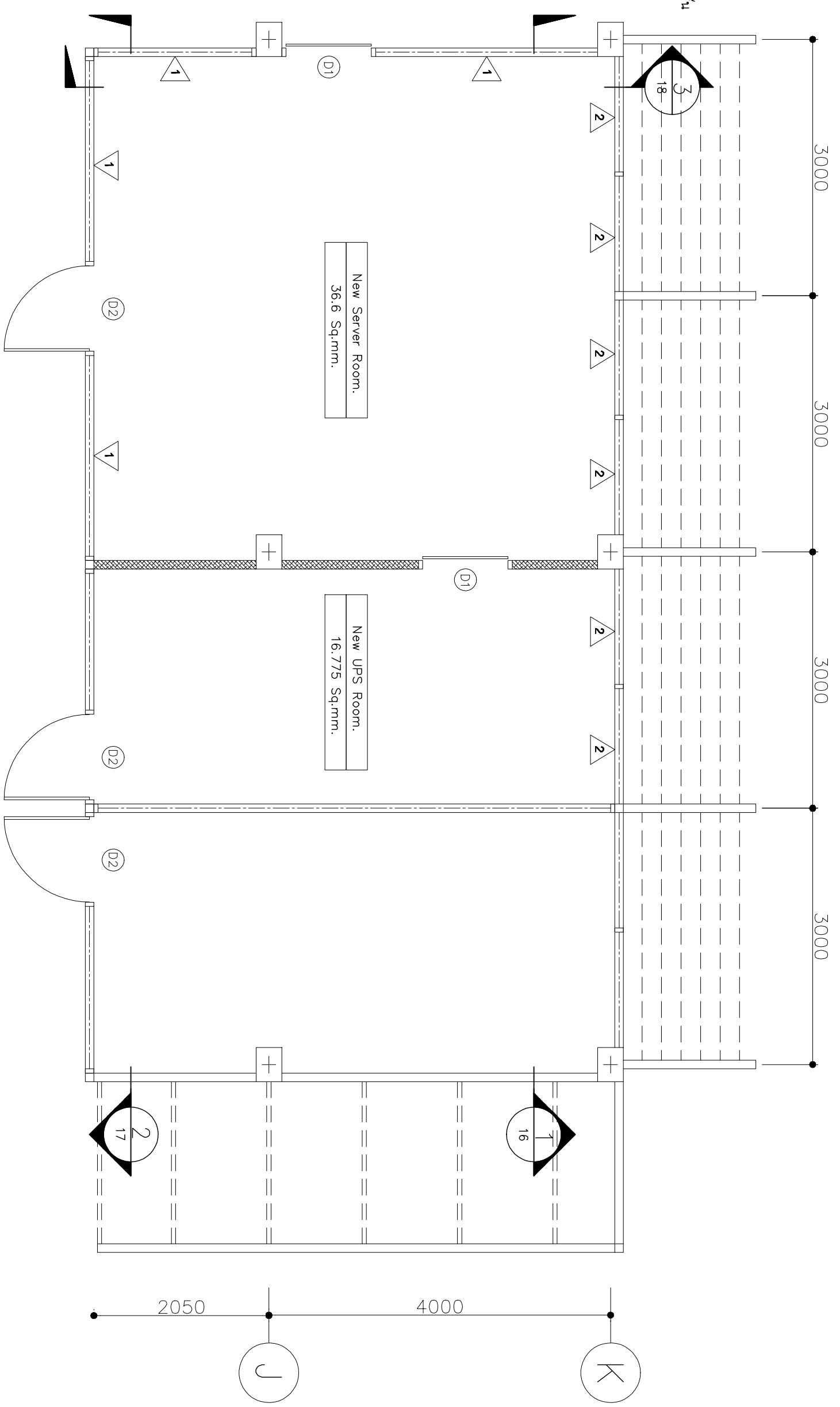
APPROVE BY :
 ENGINEER :
 DRAWING :

JOB NO :
 SHEET NO : 1
 TOTAL : 28



REMARK

- D1 ประตูบานสไลด์เดิมทำการถอดปิดตาย พร้อมติดตั้ง
- D2 ประตูบานสวิงเดิม
- 1 ผนังกระจกเดิมติดตั้งใหม่
- 2 ผนังกระจกเดิมพร้อมบุด้วยอิฐผนัง 1 ชั้น



GENERAL NOTE :
 DATE :
 SPECIAL MENTION DATE :

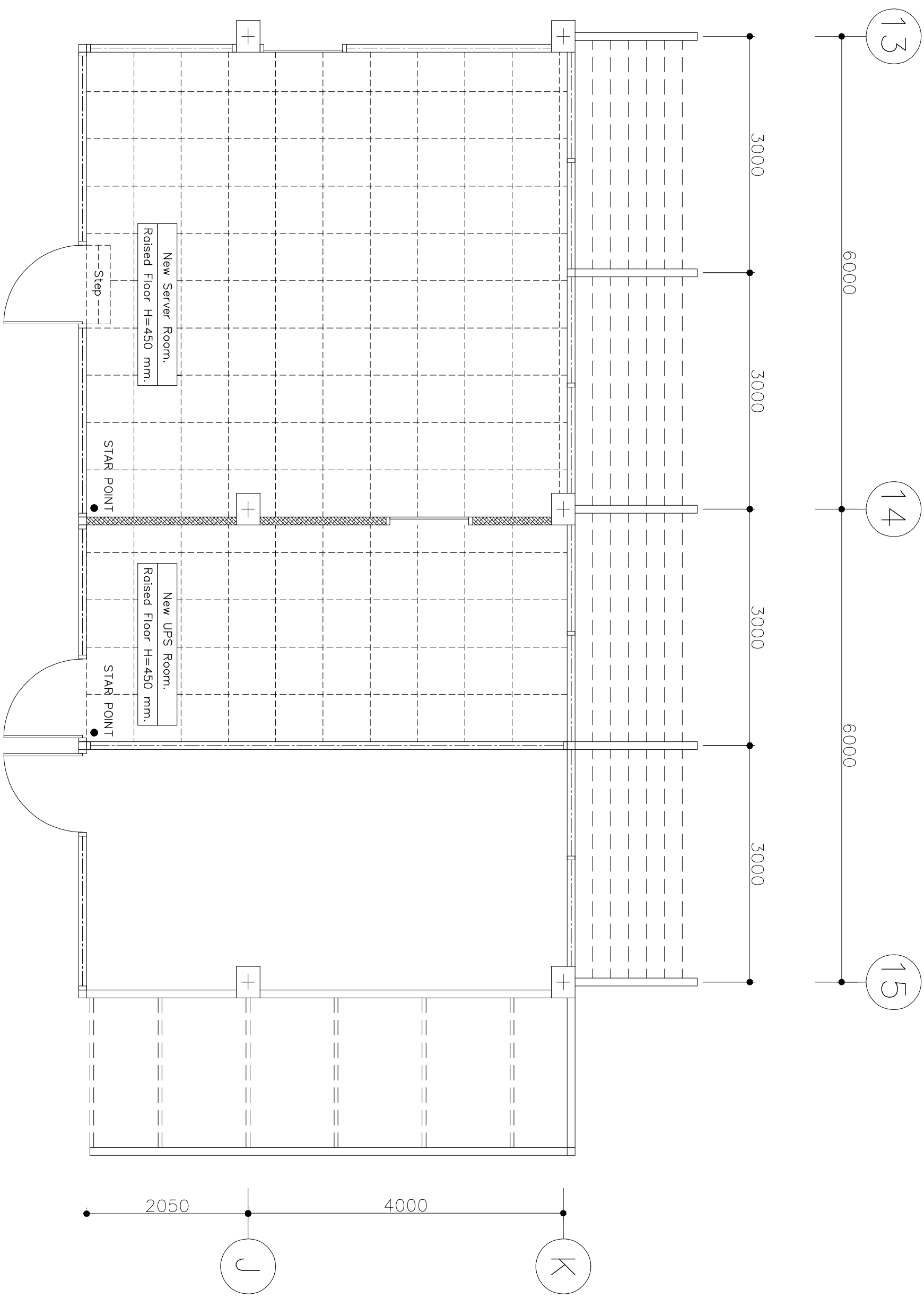
OWNER : National Cancer Institute สถาบันมะเร็งแห่งชาติ		APPROVE BY :	JOB NO :
PROJECT : Renovation Server Room	TITLE OF DRAWG : INTERIOR LAYOUT FOR PLAN	ENGINEER :	SHEET NO : 2
LOCATION : BANGKOK	SCALE : 1-50 (A3)	DATE : 07-08-57	DRAWING :
			TOTAL : 28



REMARK



Raised Floor 600x600 mm.



GENERAL NOTE :

DATE :

SPECIAL MENTION DATE :

OWNER : National Cancer Institute สถาบันมะเร็งแห่งชาติ

PROJECT : Renovation Server Room

LOCATION : BANGKOK

TITLE OF DRAWG : Raised Floor For Plan

SCALE : 1-50 (A3) DATE : 07-08-57

APPROVE BY :

ENGINEER :

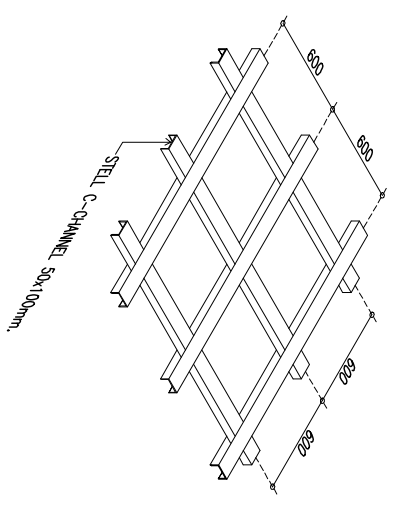
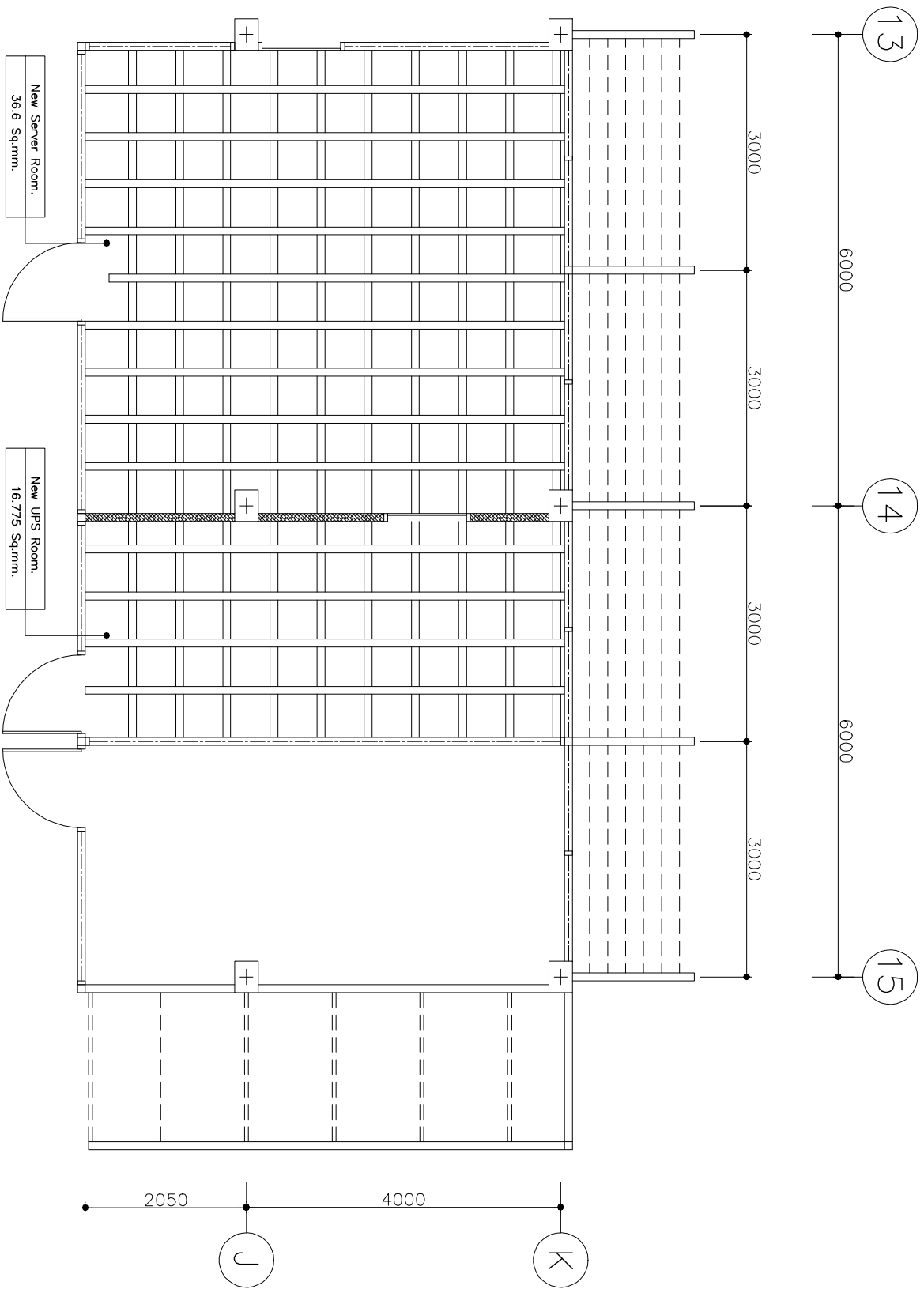
DRAWING :

JOB NO :

SHEET NO : 3

TOTAL : 28





ภาพคำนวณฐานกระเบื้องขึ้นพื้นไม้ที่ห้อง New Server Room.

- ไม้พื้น RACK 300 Kg. RACK 400 Kg.
 - = (2 x 300 Kg.) + (8 x 500 Kg.)
 - = 4,600 Kg.
- ไม้พื้น InRow RD 4 QTY.
 - = 4 x 183.64 Kg.
 - = 734.56 Kg.
- ไม้พื้น FM200 TANK
 - = 150 Kg.
- ไม้พื้น RAISED FLOOR 36.6 m2
 - = 36.6 m2 x 45 Kg.
 - = 1,647 Kg.

- ไม้เหล็ก C-CHANNEL ขนาด 50 x 100 ที่ฐานวาง RACK ลักษณะตั้งรูป
 - = 11.5 Kg./m.
 - = 103.8 m.
- คานงูไม้เหล็กที่ความยาวทั้งหมด
 - = 11.5 Kg./m x 103.8 m.
 - = 1,193.7 Kg.
- ไม้พื้นเหล็ก C-CHANNEL ทั้งหมด
 - = 4,600 + 734.56 + 150 + 1,647 + 1,193.7
 - = 8,325.26 Kg.

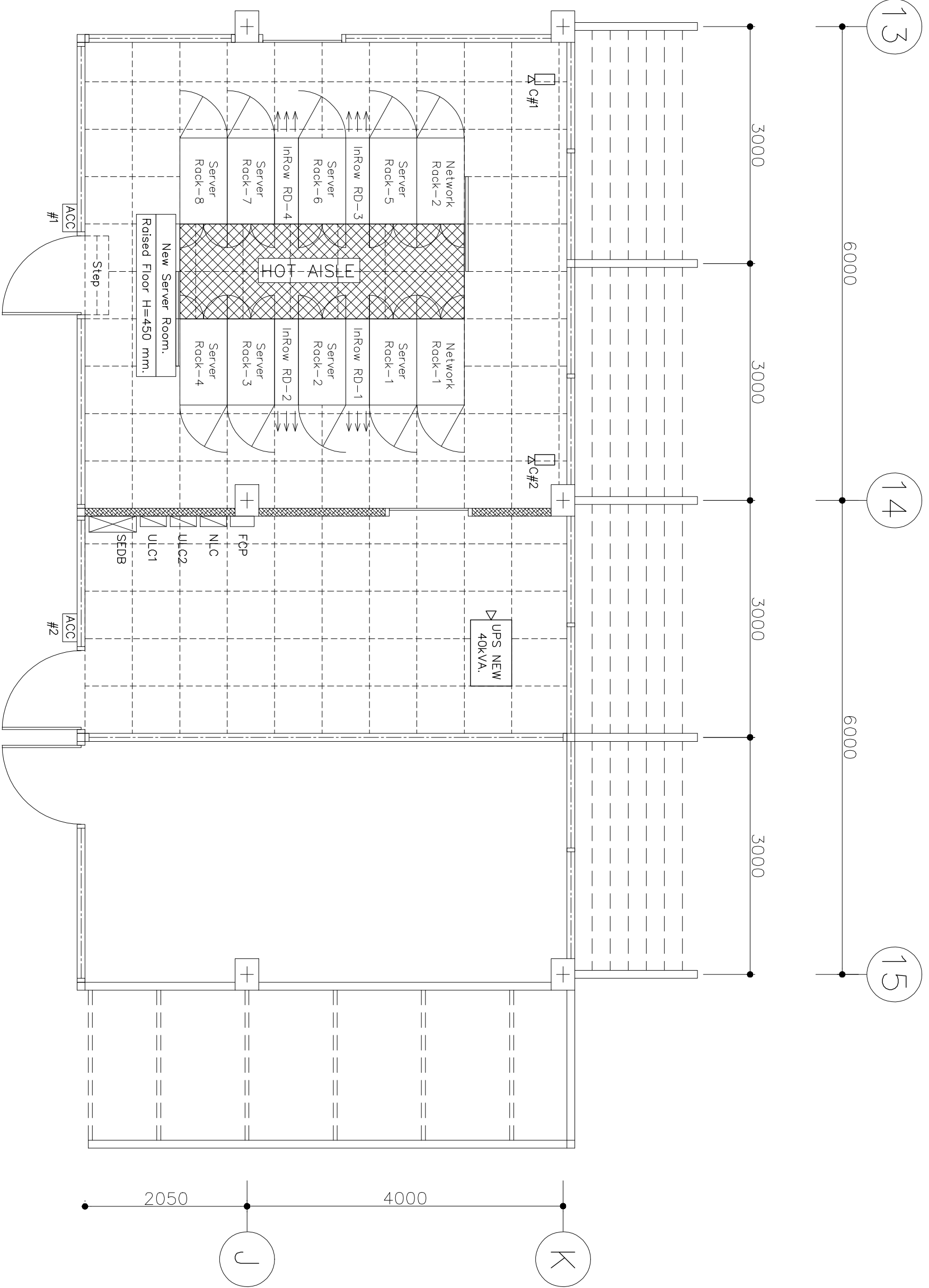
- ไม้พื้นกระเบื้องทั้งหมด
 - พื้นที่ของฐานกระเบื้องไม้ที่ห้อง New Server Room
 - พื้นที่อาคารที่ไม้พื้นไม้ได้
 - การกระจายไม้พื้นไม้ต่อตารางเมตร
 - = 36.6 m2
 - = 250 Kg./m2
 - = 227.47 Kg./m2

ภาพคำนวณฐานกระเบื้องไม้ที่ห้อง New Server Room.

- ไม้พื้น UPS 40KVA NEW
 - = 662 Kg.
- ไม้พื้น RAISED FLOOR 16.775 m2
 - = 16.775 m2 x 45 Kg.
 - = 754.875 Kg.

- ไม้เหล็ก C-CHANNEL ขนาด 50 x 100 ที่ฐานวาง RACK ลักษณะตั้งรูป
 - = 11.5 Kg./m.
 - = 34.4 m.
- ไม้พื้นเหล็ก C-CHANNEL
 - = 11.5 Kg./m x 34.4 m.
 - = 395.6 Kg.
- คานงูไม้เหล็กที่ความยาวทั้งหมด
 - = 662 + 754.875 + 395.6
 - = 1,812.475 Kg.
- ไม้พื้นกระเบื้องทั้งหมด
 - พื้นที่ของฐานกระเบื้องไม้ที่ห้อง New Server Room
 - พื้นที่อาคารที่ไม้พื้นไม้ได้
 - การกระจายไม้พื้นไม้ต่อตารางเมตร
 - = 16.775 m2
 - = 250 Kg./m2
 - = 108.046 Kg./m2

GENERAL NOTE :		DATE :	SPECIAL MENTIONDATE :	OWNER : National Cancer Institute สถาบันมะเร็งแห่งชาติ	TITLE OF DRAWG : CHAIR LOAD FOR PLAN	ENGINEER :	APPROVE BY :	JOB NO :
				PROJECT : Renovation Server Room	SCALE : 1-75 (A3)			SHEET NO : 5
				LOCATION : BANGKOK	DATE : 07-08-57			TOTAL : 28



GENERAL NOTE :

DATE : SPECIAL MENTIONDATE :

OWNER : National Cancer Institute สถาบันมะเร็งแห่งชาติ

APPROVE BY :

JOB NO :

PROJECT : Renovation Server Room

TITLE OF DRAWG : Equipment For Plan

ENGINEER :

SHEET NO : 6

LOCATION : BANGKOK

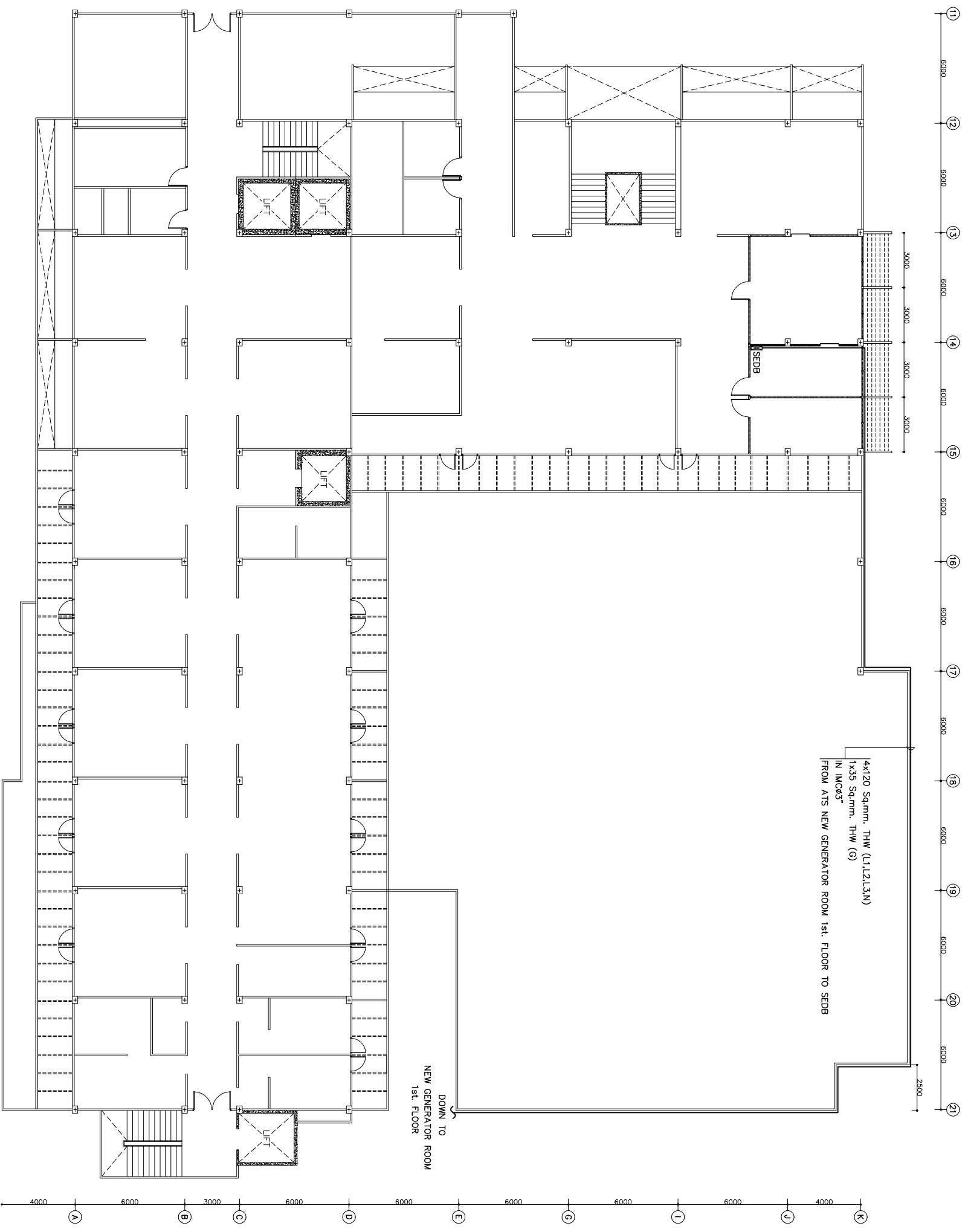
SCALE : 1-50 (A3)

DATE : 07-08-57


DRAWING :

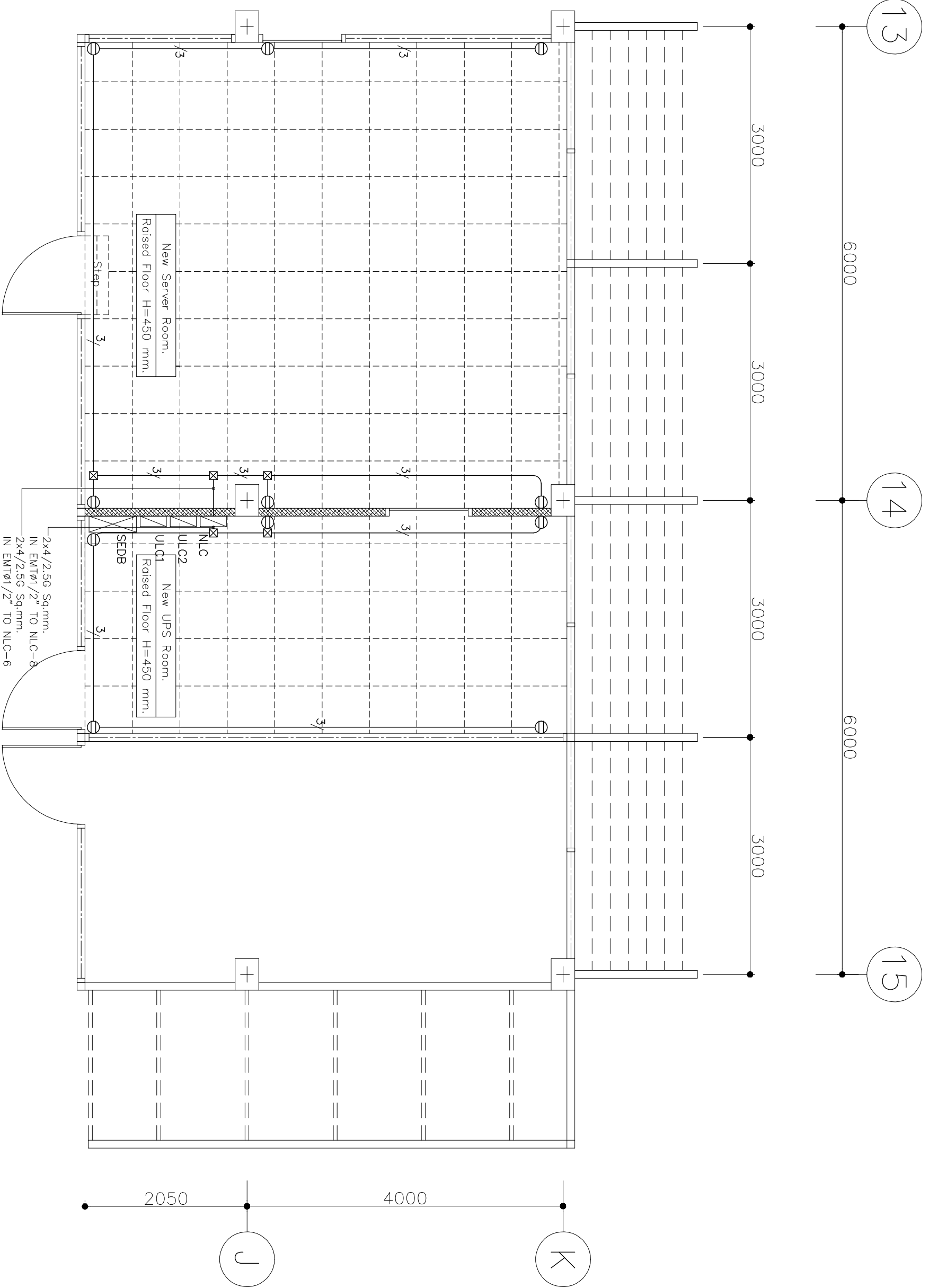
TOTAL : 28





GENERAL NOTE : _____ DATE : _____ SPECIAL MENTIONDATE : _____


		OWNER : National Cancer Institute สถาบันมะเร็งแห่งชาติ	APPROVE BY :	JOB NO :
PROJECT :	ROUTING MAIN POWER LAYOUT FOR PLAN	Renovation Server Room	ENGINEER :	SHEET NO :
LOCATION :	BANGKOK		DATE :	7
SCALE :	1-250 (A3)		DRAWING :	TOTAL :
	07-08-57			28

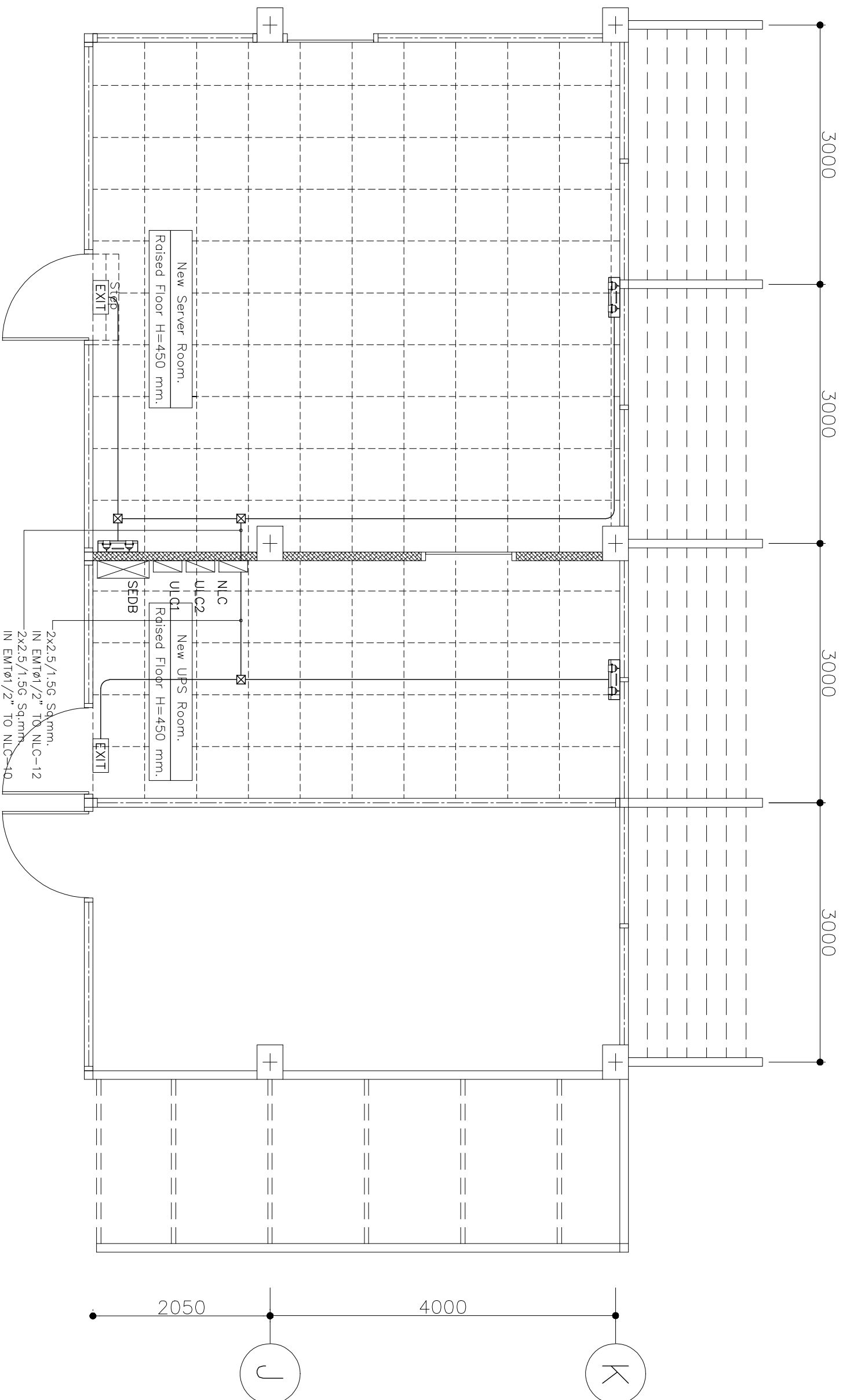
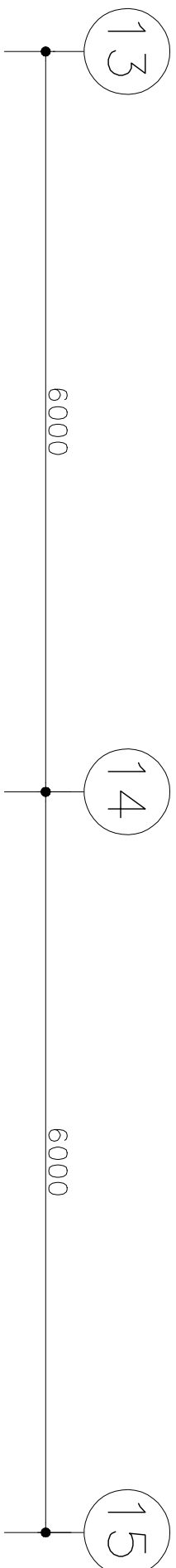


2x4/2.5G Sq.mm.
IN EMTØ1/2" TO NLC-8
2x4/2.5G Sq.mm.
IN EMTØ1/2" TO NLC-6

New Server Room.
Raised Floor H=450 mm.

New UPS Room.
Raised Floor H=450 mm.

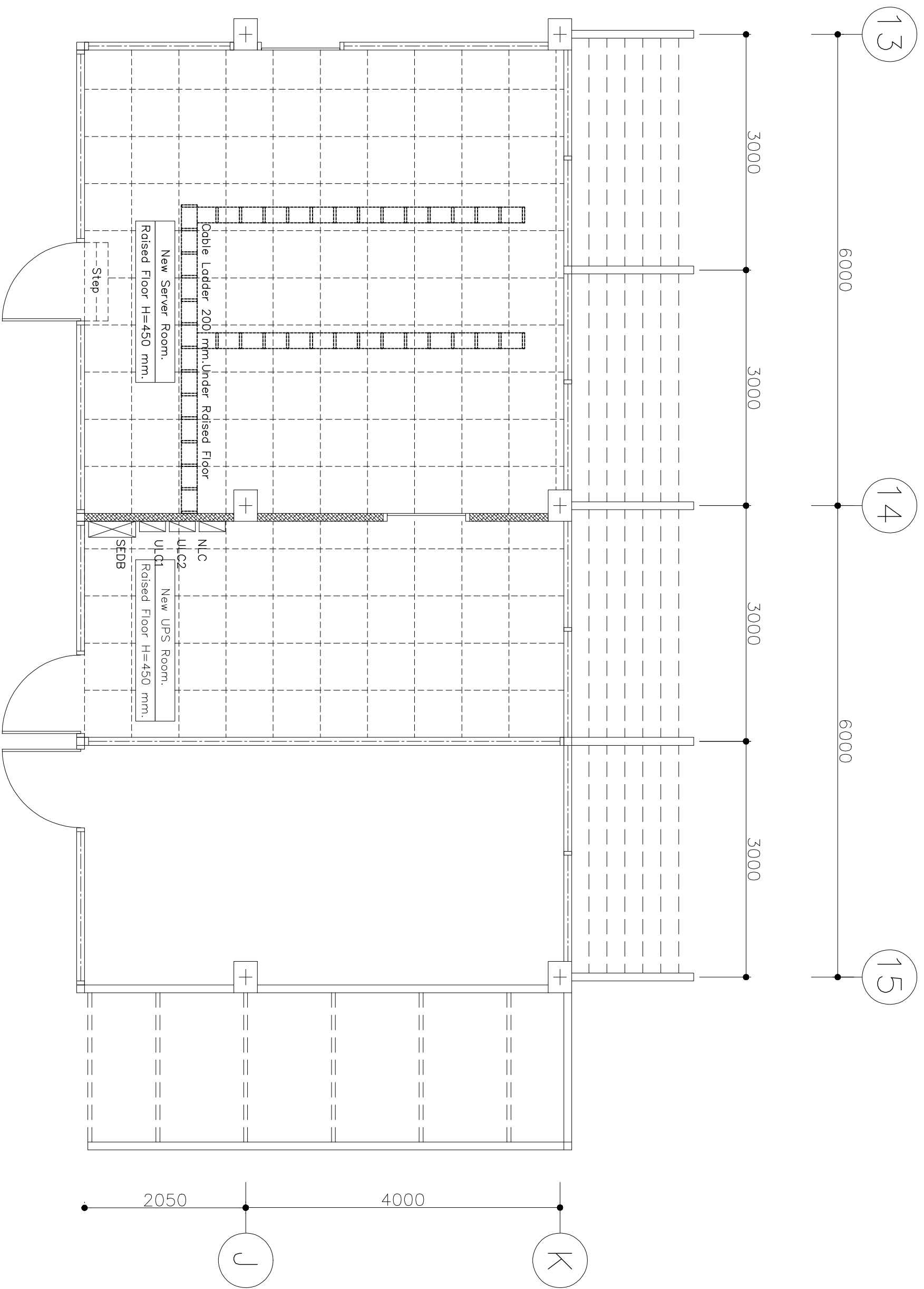
GENERAL NOTE :		DATE :	SPECIAL MENTIONDATE :		OWNER : National Cancer Institute สถาบันมะเร็งแห่งชาติ	APPROVE BY :	JOB NO. :	
					PROJECT : Renovation Server Room	TITLE OF DRAWG : Recticle For Plan	ENGINEER :	SHEET NO. : 9
					LOCATION : BANGKOK	SCALE : 1-50 (A3)	DATE : 07-08-57	DRAWING :
								TOTAL : 28



GENERAL NOTE :
 DATE :
 SPECIAL MENTIONDATE :

OWNER : National Cancer Institute สถาบันมะเร็งแห่งชาติ		APPROVE BY :	
PROJECT : Renovation Server Room	TITLE OF DRAWG : Emer & Exit For Plan	ENGINEER :	
LOCATION : BANGKOK	SCALE : 1-50 (A3)	DATE : 07-08-57	DRAWING :
JOB NO :		SHEET NO :	
		10	
		TOTAL : 28	





GENERAL NOTE :

DATE :

SPECIAL MENTION DATE :

OWNER : National Cancer Institute สถาบันมะเร็งแห่งชาติ

APPROVE BY :

JOB NO :

PROJECT :
Renovation Server Room

TITLE OF DRAWG :
Cable Ladder For Power

ENGINEER :

SHEET NO :
11

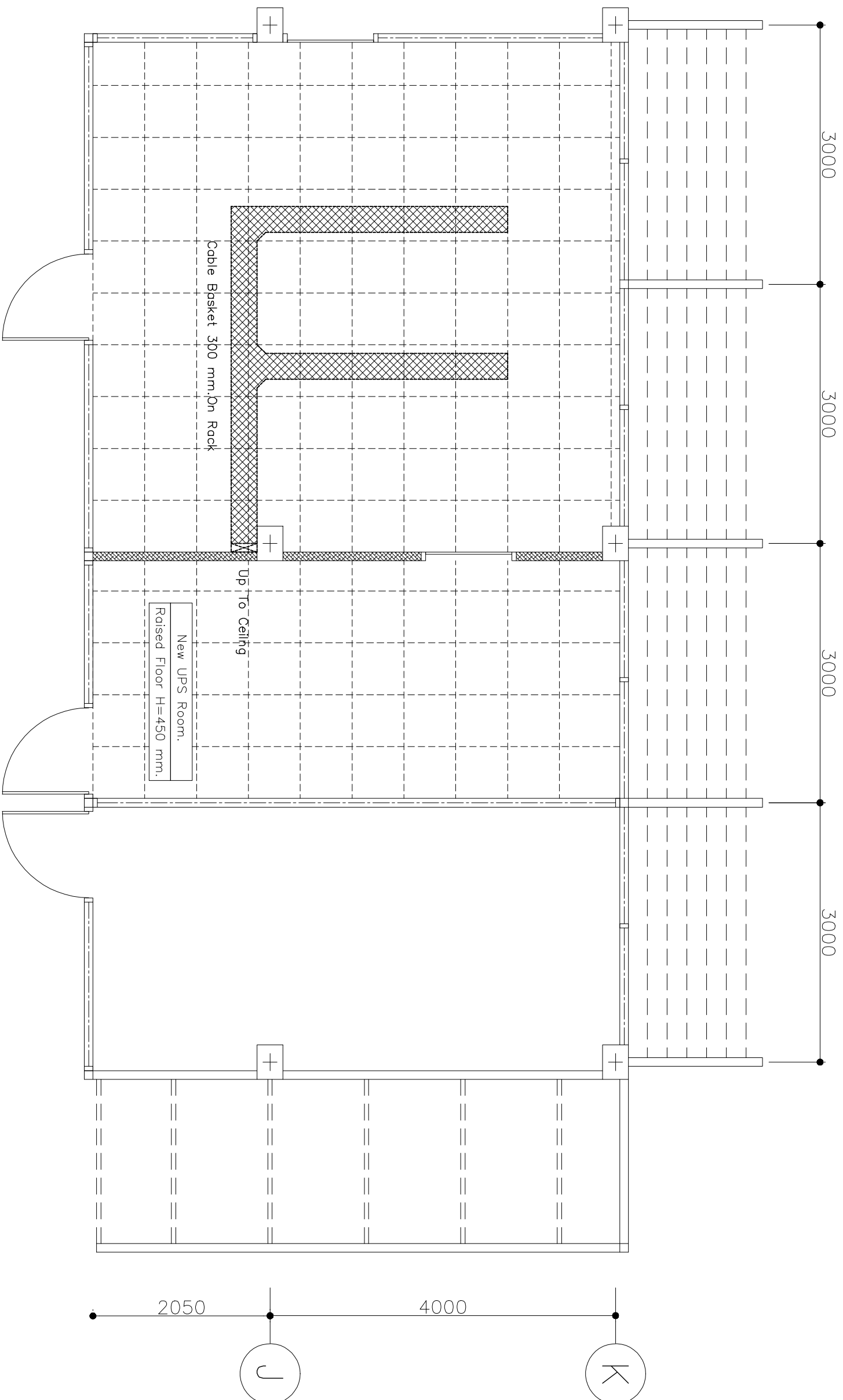
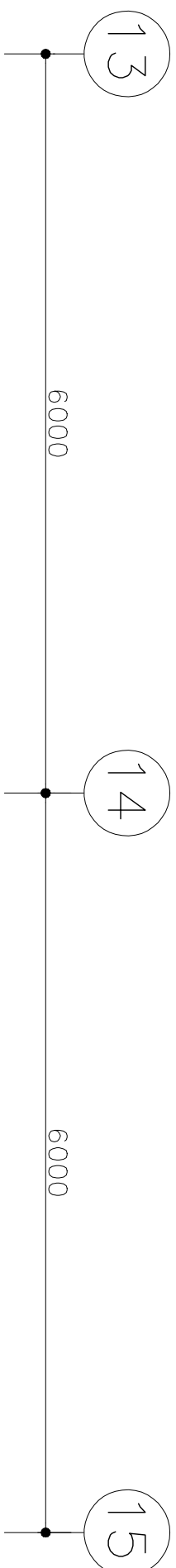
LOCATION :
BANGKOK

SCALE :
1-50 (A3)

DATE :
07-08-57

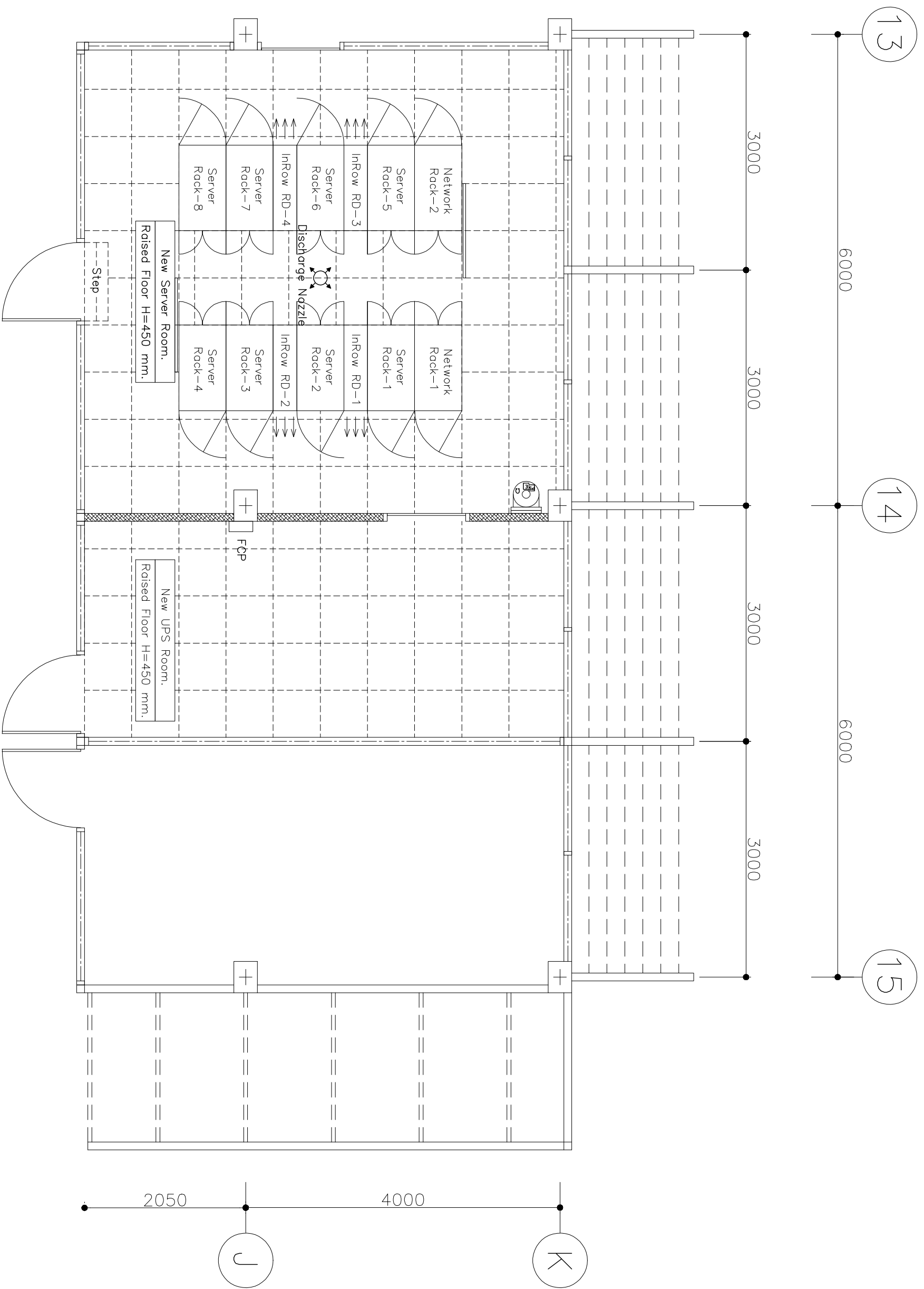
DRAWING :
TOTAL : 28





GENERAL NOTE :
 DATE :
 SPECIAL MENTION DATE :

		OWNER : National Cancer Institute สถาบันมะเร็งแห่งชาติ		APPROVE BY :	
PROJECT : Renovation Server Room		TITLE OF DRAWG : Cable Basket For Plan		ENGINEER :	
LOCATION : BANGKOK		SCALE : 1-50 (A3)		DATE : 07-08-57	
		DRAWING :		SHEET NO : 12	
				TOTAL : 28	



GENERAL NOTE :

DATE :

SPECIAL MENTIONDATE :

OWNER : National Cancer Institute สถาบันมะเร็งแห่งชาติ

APPROVE BY :

JOB NO :

PROJECT :
Renovation Server Room

TITLE OF DRAWG :
FM-200 Under Ceiling
For Plan

ENGINEER :

SHEET NO :
13

LOCATION :
BANGKOK

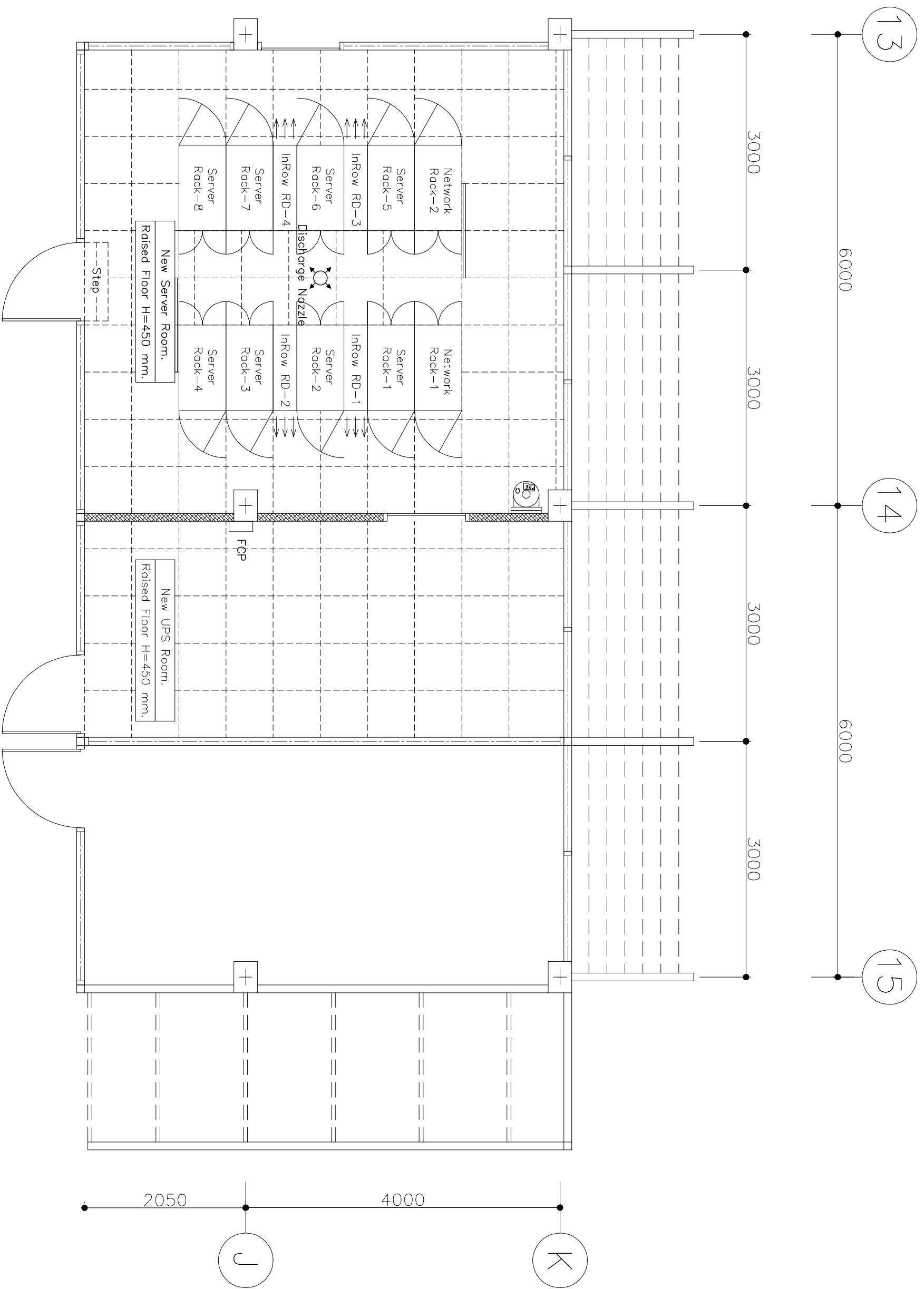
SCALE :
1-50 (A3)

DATE :
07-08-57

DRAWING :

TOTAL :
28





GENERAL NOTE :

DATE :

SPECIAL MENTIONDATE :

OWNER : National Cancer Institute สถาบันมะเร็งแห่งชาติ

APPROVE BY :

JOB NO :

PROJECT :
Renovation Server Room

TITLE OF DRAWG :
FM-200 In Containment
Room For Plan

ENGINEER :

SHEET NO :
14

LOCATION :
BANGKOK

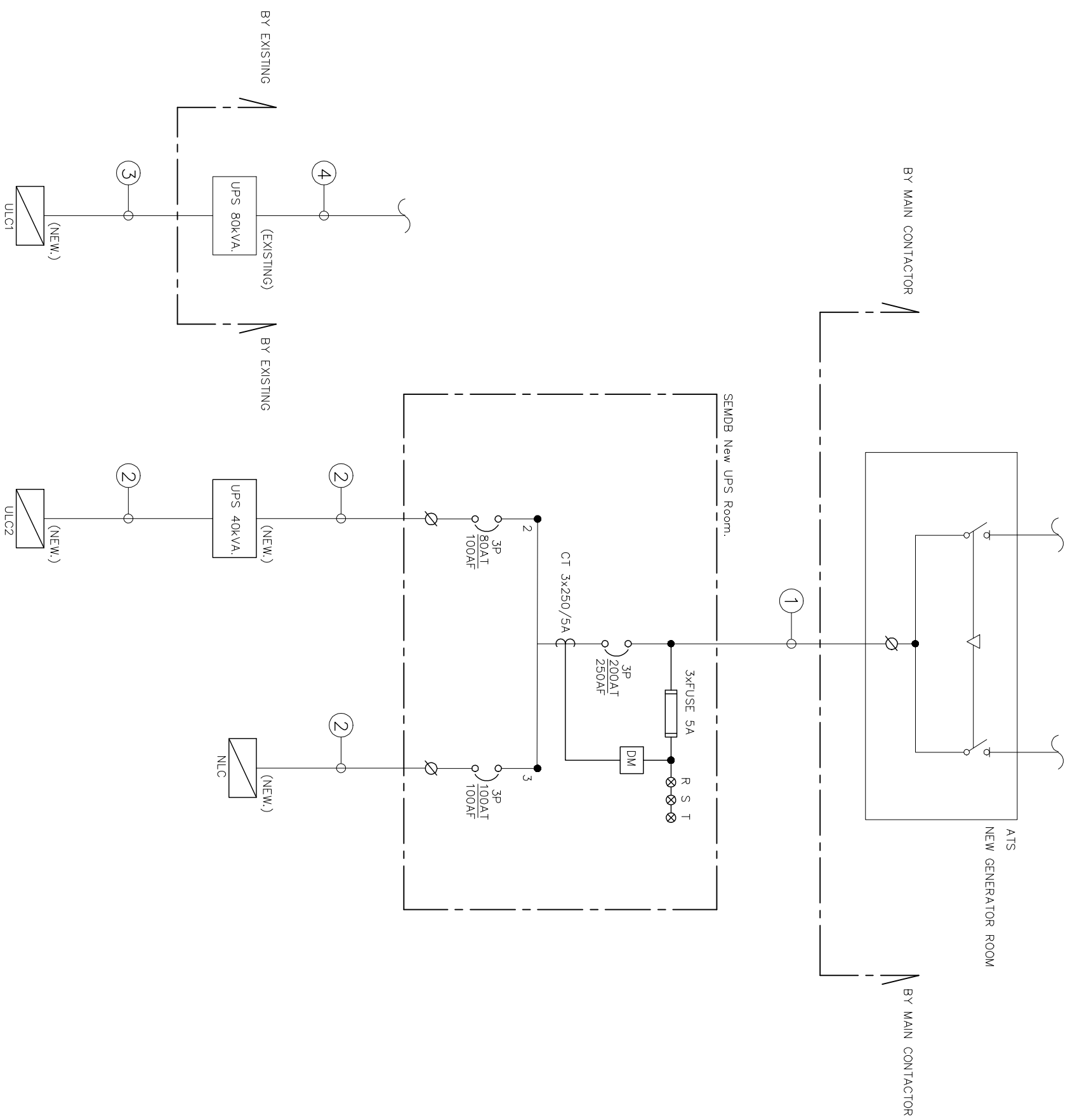
SCALE :
1-50 (A3)

DATE :
07-08-57

DRAWING :

TOTAL :
28





REMARK

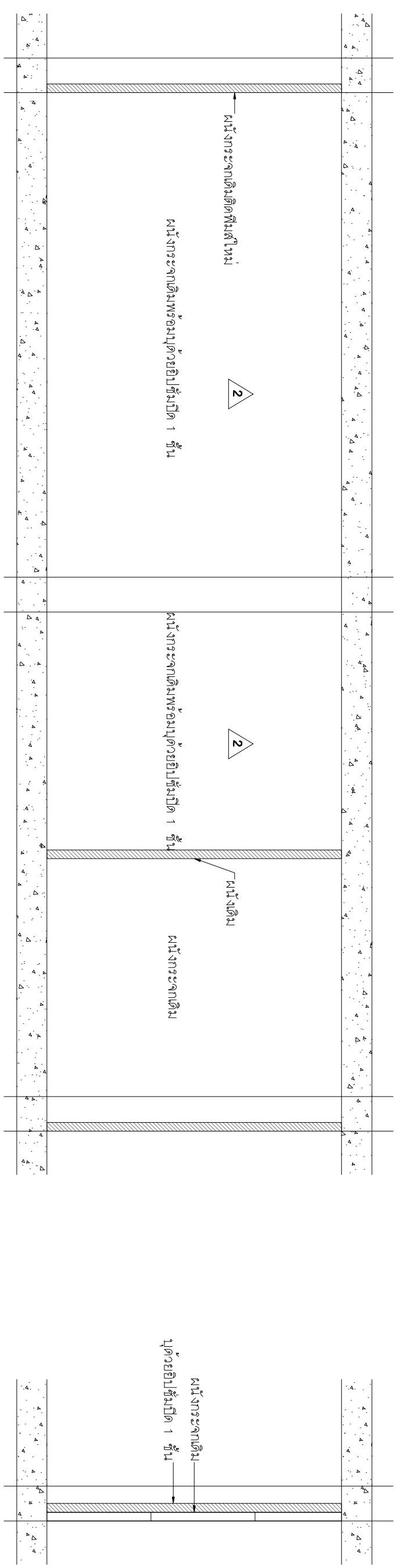
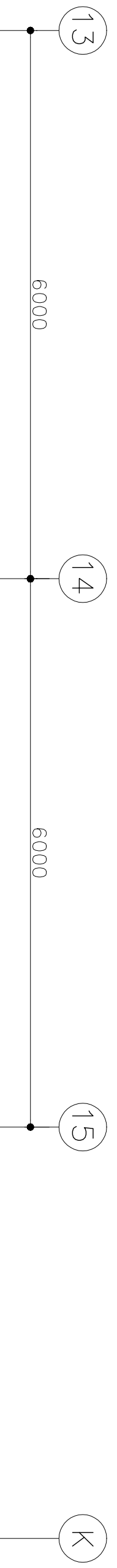
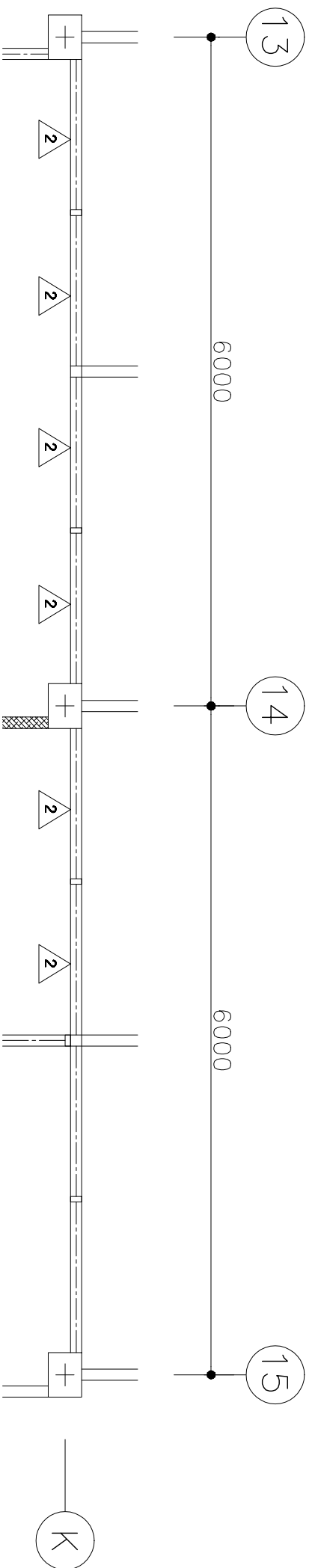
- ① 4x120 Sq.mm. THW (L1,L2,L3,N)
1x35 Sq.mm. THW (G)
IN IMC๖3"
- ② 4x35 Sq.mm. THW (L1,L2,L3,N)
1x10 Sq.mm. THW (G)
IN WIRE WAY
- ③ 4x95 Sq.mm. THW (L1,L2,L3,N)
1x35 Sq.mm. THW (G)
IN WIRE WAY
- ④ EXISTING CABLE

GENERAL NOTE :

DATE : SPECIAL MENTIONDATE :

OWNER : National Cancer Institute สถาบันมะเร็งแห่งชาติ		APPROVE BY :	JOB NO :
PROJECT : Renovation Server Room	TITLE OF DRAWG : Single Line Diagram	ENGINEER :	SHEET NO : 15
LOCATION : BANGKOK	SCALE : 1-50 (A3)	DATE : 07-08-57	DRAWING :
			TOTAL : 28

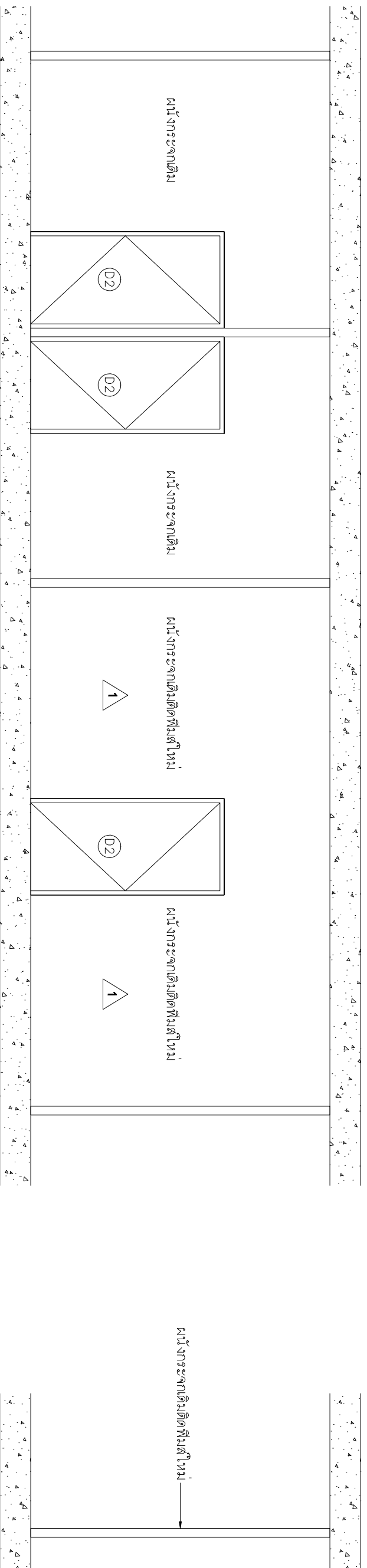
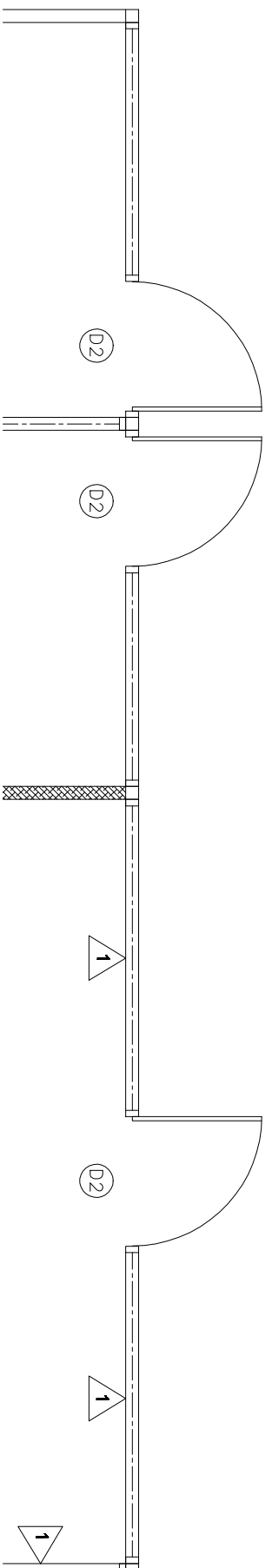




GENERAL NOTE :
 DATE :
 SPECIAL MENTIONDATE :

OWNER : National Cancer Institute สถาบันมะเร็งแห่งชาติ		APPROVE BY :	JOB NO :
PROJECT : Renovation Server Room	TITLE OF DRAWG : SECTION 1	ENGINEER :	SHEET NO : 16
LOCATION : BANGKOK	SCALE : 1-50 (A3)	DATE : 07-08-57	DRAWING :
			TOTAL : 28

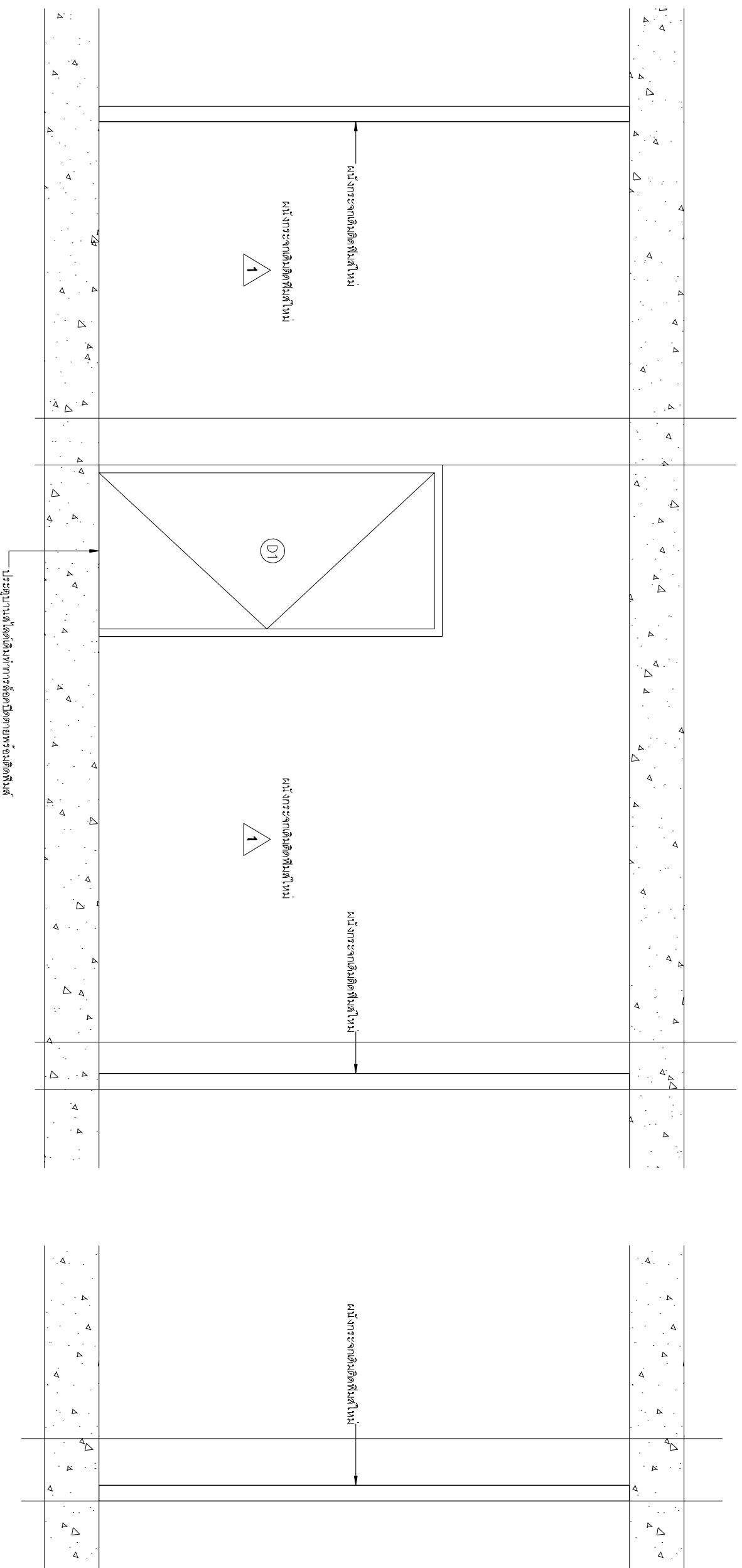
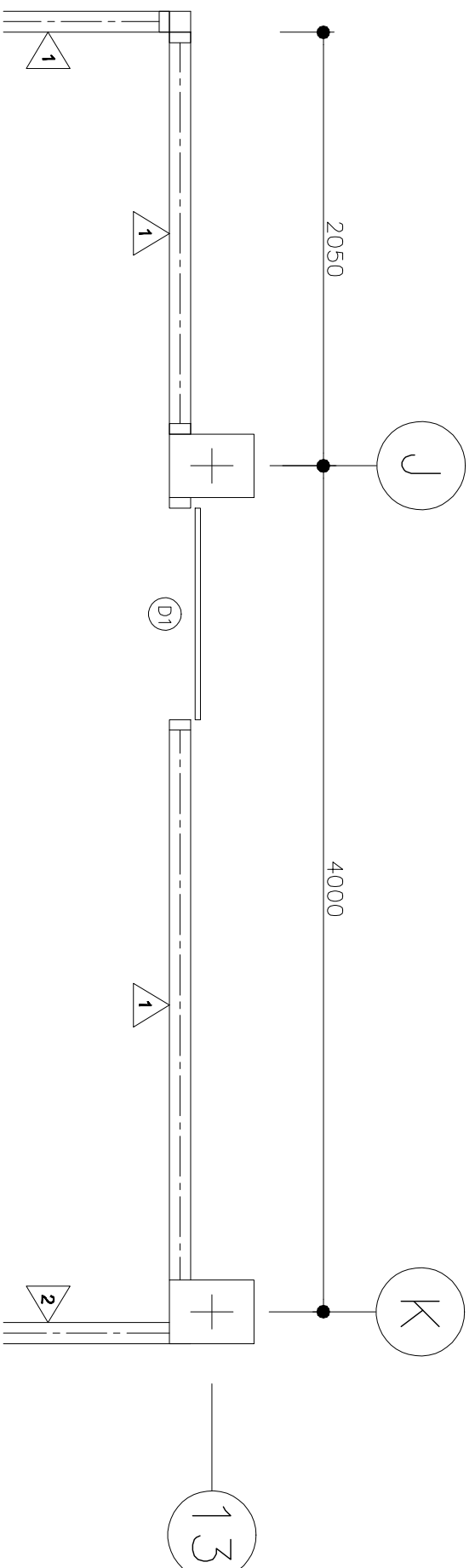




GENERAL NOTE : _____ DATE : _____ SPECIAL MENTIONDATE : _____

OWNER : National Cancer Institute สถาบันมะเร็งแห่งชาติ		APPROVE BY :		JOB NO :	
PROJECT : Renovation Server Room		ENGINEER :		SHEET NO :	
LOCATION : BANGKOK		SCALE : 1-50 (A3)		DATE : 07-08-57	
DRAWING :		TOTAL :		28	





GENERAL NOTE :

DATE : SPECIAL MENTIONDATE :

OWNER : National Cancer Institute สถาบันมะเร็งแห่งชาติ

APPROVE BY :

JOB NO :

PROJECT : Renovation Server Room

TITLE OF DRAWG : SECTION 3

ENGINEER :

SHEET NO : 18

LOCATION : BANGKOK

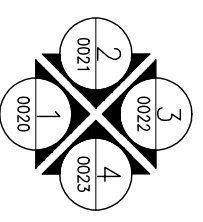
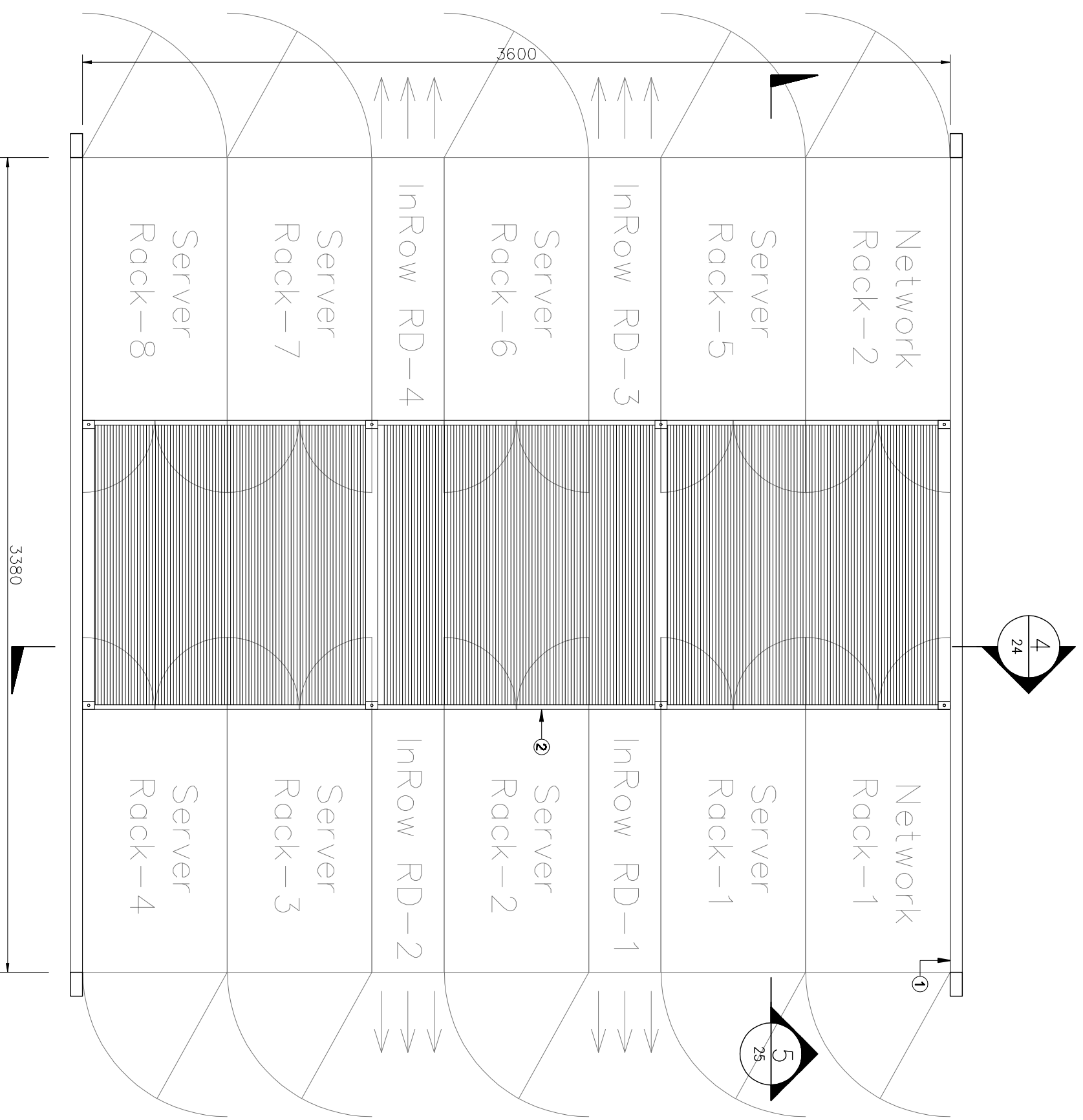
SCALE : 1-30 (A3)

DATE : 07-08-57

DRAWING :

TOTAL : 28





GENERAL NOTE :

DATE :

SPECIAL MENTIONDATE :

OWNER : National Cancer Institute สถาบันมะเร็งแห่งชาติ

APPROVE BY :

JOB NO :

PROJECT :
Renovation Server Room

TITLE OF DRAWG :
DETAIL CONTAINMENT

ENGINEER :

SHEET NO :
19

LOCATION :
BANGKOK

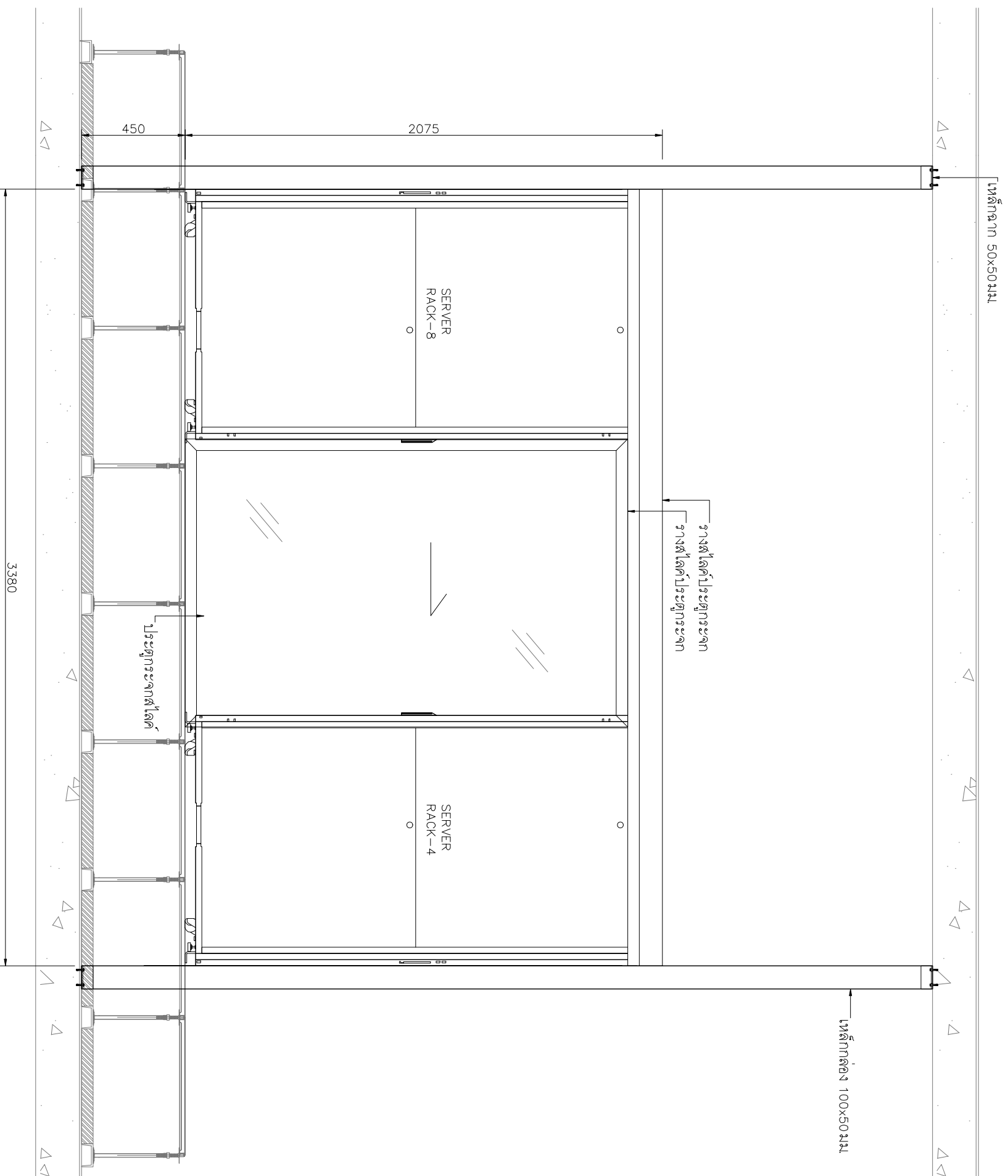
SCALE :
1-20 (A3)

DATE :
07-08-57

DRAWING :

TOTAL :
28





GENERAL NOTE :

DATE :

SPECIAL MENTIONDATE :



OWNER : National Cancer Institute สถาบันมะเร็งแห่งชาติ

PROJECT :
Renovation Server Room

LOCATION :
BANGKOK

TITLE OF DRAWG :
ELEVATION 1

SCALE :
1-20 (A3)

DATE :
07-08-57

APPROVE BY :

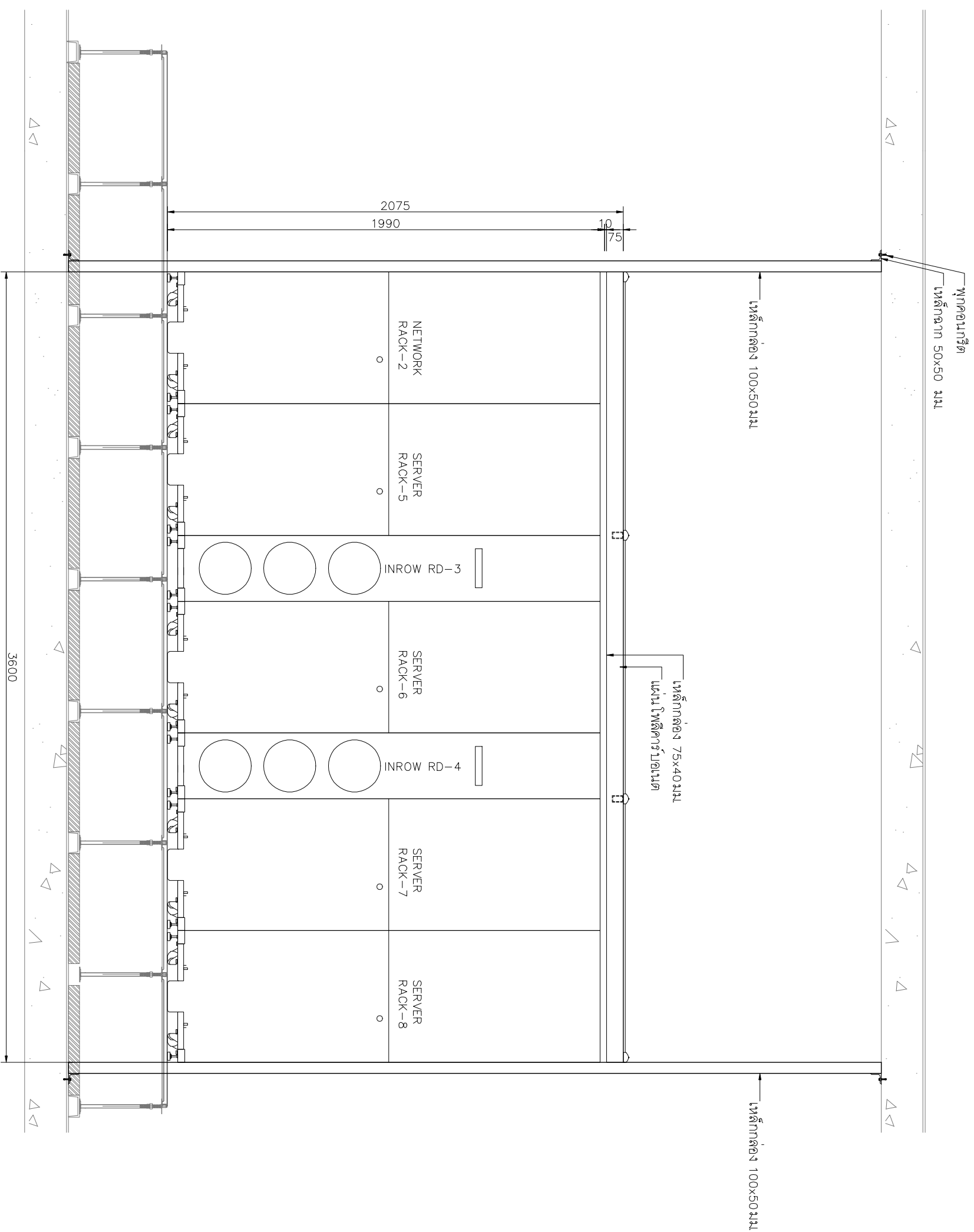
ENGINEER :

DRAWING :

JOB NO :

SHEET NO :
20

TOTAL :
28



GENERAL NOTE :

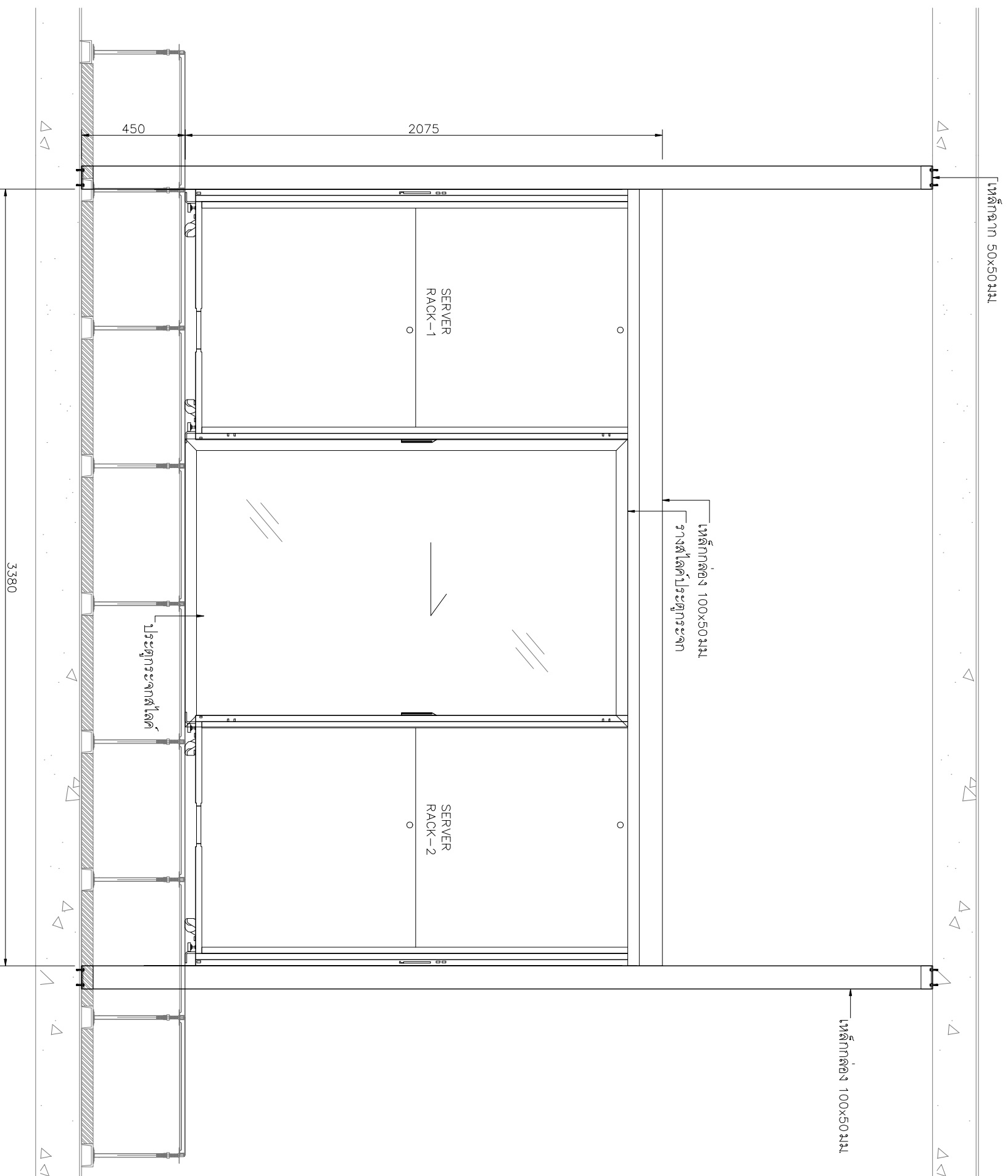
DATE : SPECIAL MENTIONDATE :



OWNER : National Cancer Institute สถาบันมะเร็งแห่งชาติ
 PROJECT : Renovation Server Room
 LOCATION : BANGKOK

TITLE OF DRAWG : ELEVATION 2
 SCALE : 1-20 (A3)
 DATE : 07-08-57

APPROVE BY : ENGINEER :
 SHEET NO : 21
 DRAWING :
 TOTAL : 28



GENERAL NOTE :

DATE :

SPECIAL MENTION DATE :



OWNER : National Cancer Institute สถาบันมะเร็งแห่งชาติ

PROJECT :
Renovation Server Room

LOCATION :
BANGKOK

TITLE OF DRAWG :
ELEVATION 3

SCALE :
1-20 (A3)

DATE :
07-08-57

APPROVE BY :

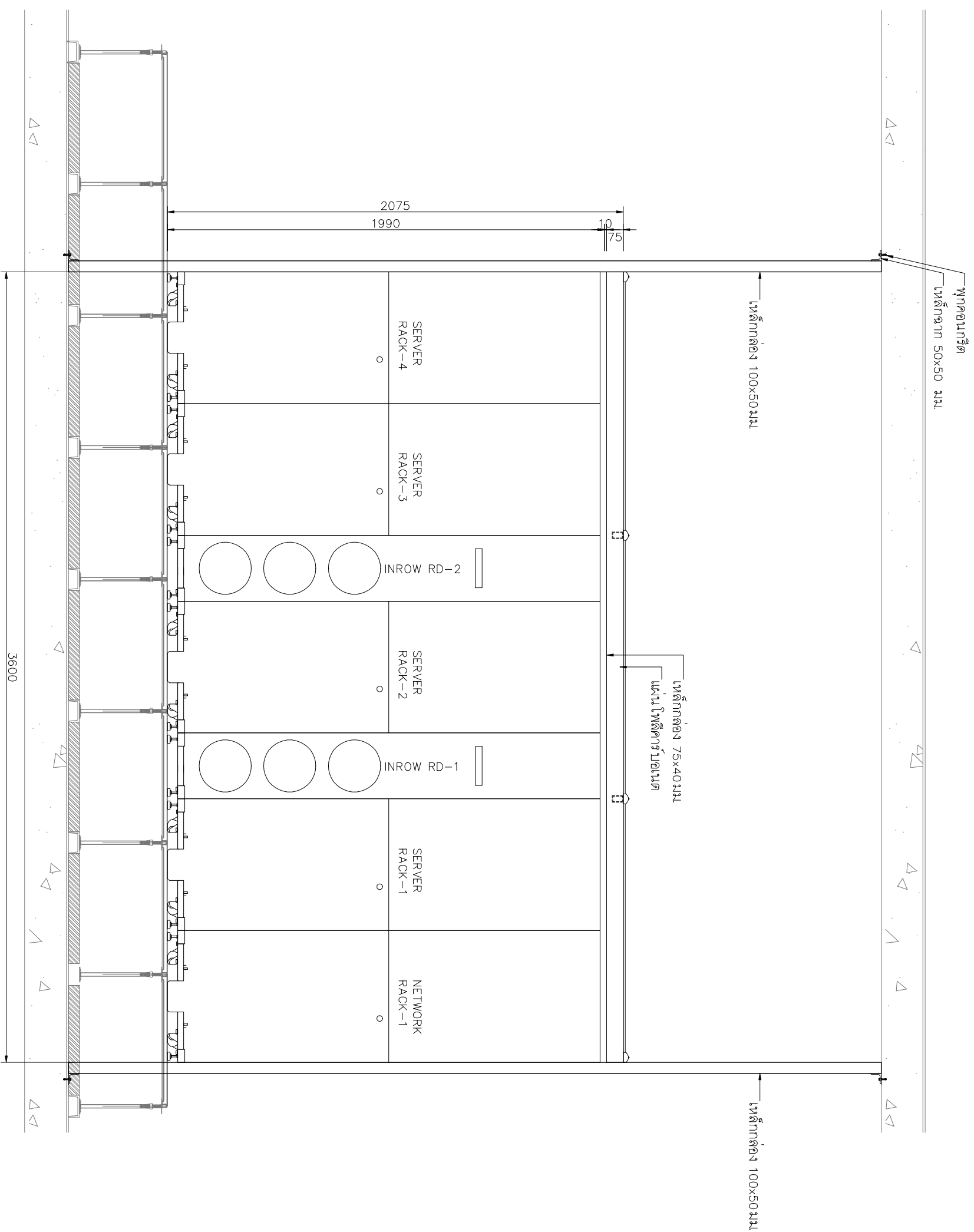
ENGINEER :

DRAWING :

JOB NO. :

SHEET NO. :
22

TOTAL :
28



GENERAL NOTE :

DATE : SPECIAL MENTIONDATE :

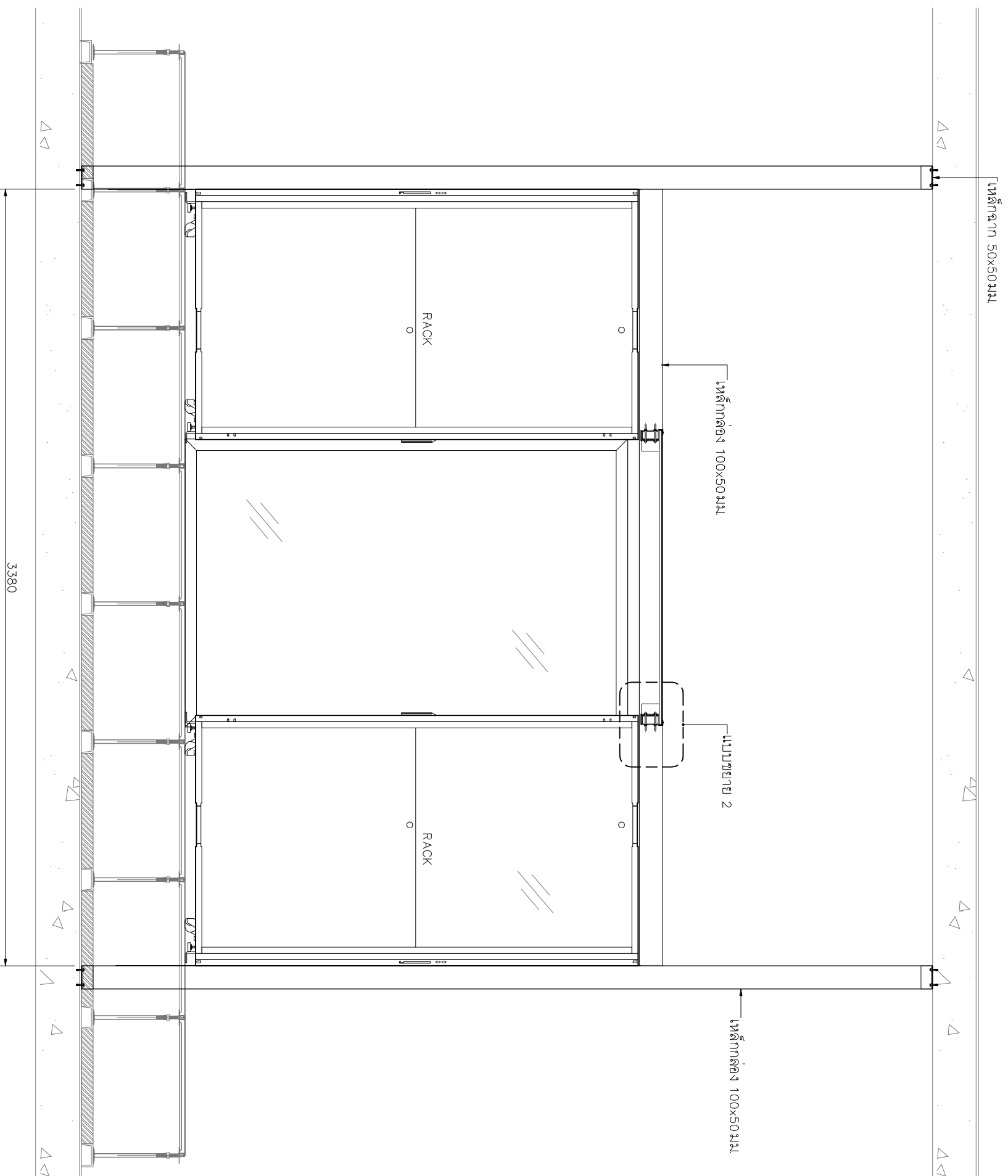


OWNER : National Cancer Institute สถาบันมะเร็งแห่งชาติ
PROJECT : Renovation Server Room
LOCATION : BANGKOK

TITLE OF DRAWG : ELEVATION 4
SCALE : 1-20 (A3)
DATE : 07-08-57

APPROVE BY : ENGINEER :

JOB NO : SHEET NO : 23
TOTAL : 28



GENERAL NOTE :

DATE :

SPECIAL MENTION DATE :



OWNER : National Cancer Institute สถาบันมะเร็งแห่งชาติ
 PROJECT : Renovation Server Room
 LOCATION : BANGKOK

TITLE OF DRAWG :
 SECTION 5

SCALE : 1-20 (A3)
 DATE : 07-08-57

APPROVE BY :

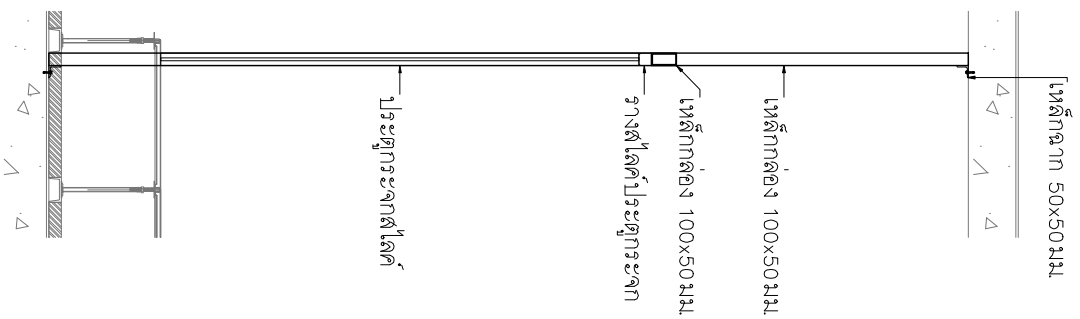
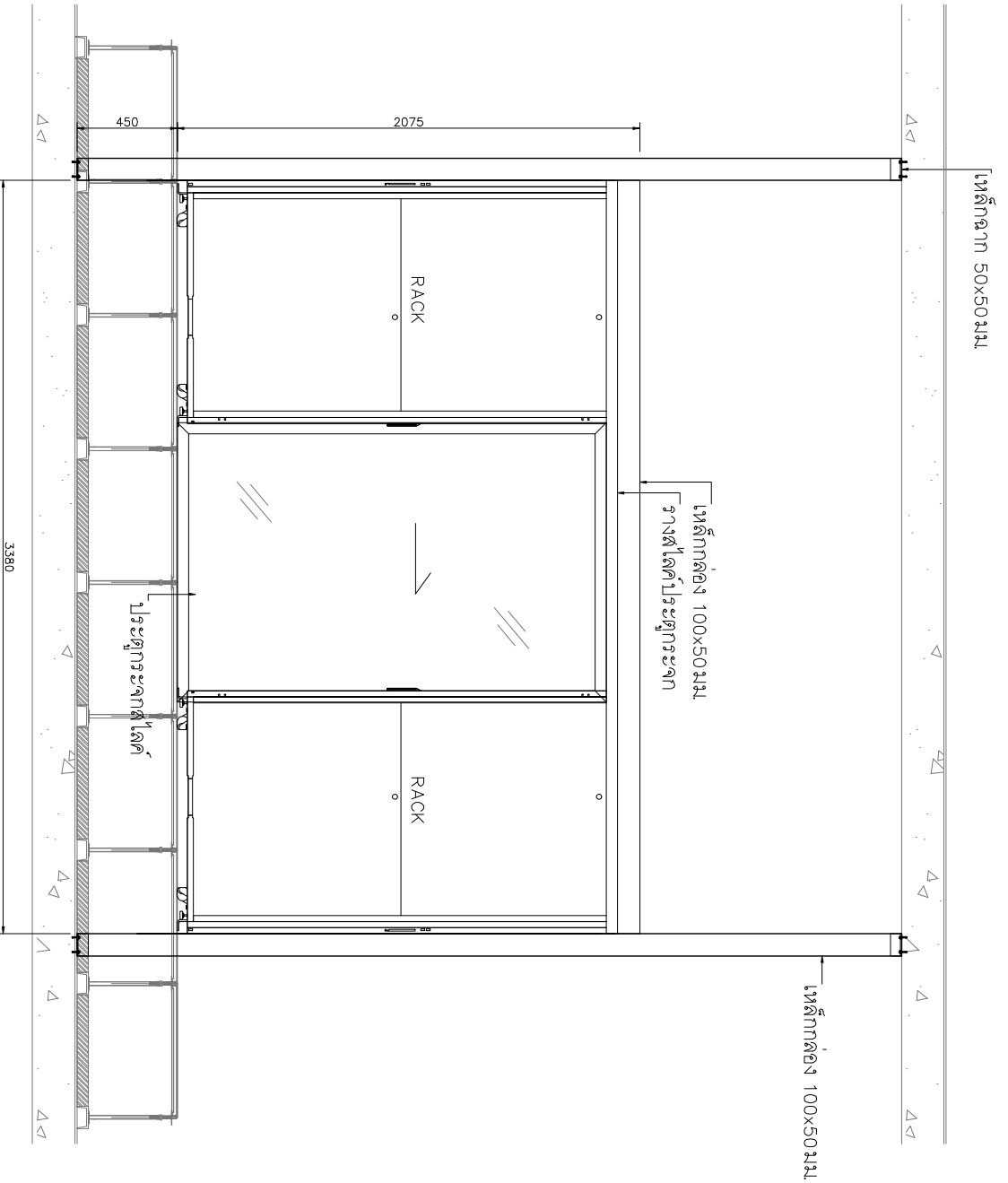
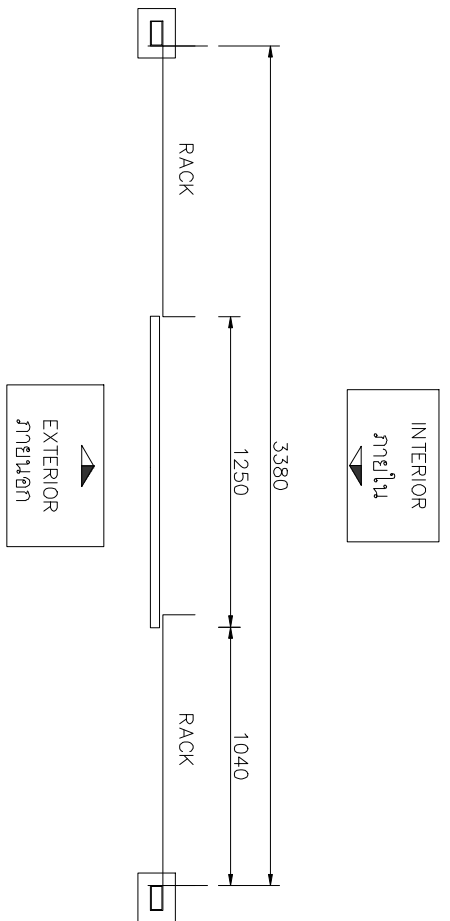
ENGINEER :

JOB NO. :

SHEET NO. :

25

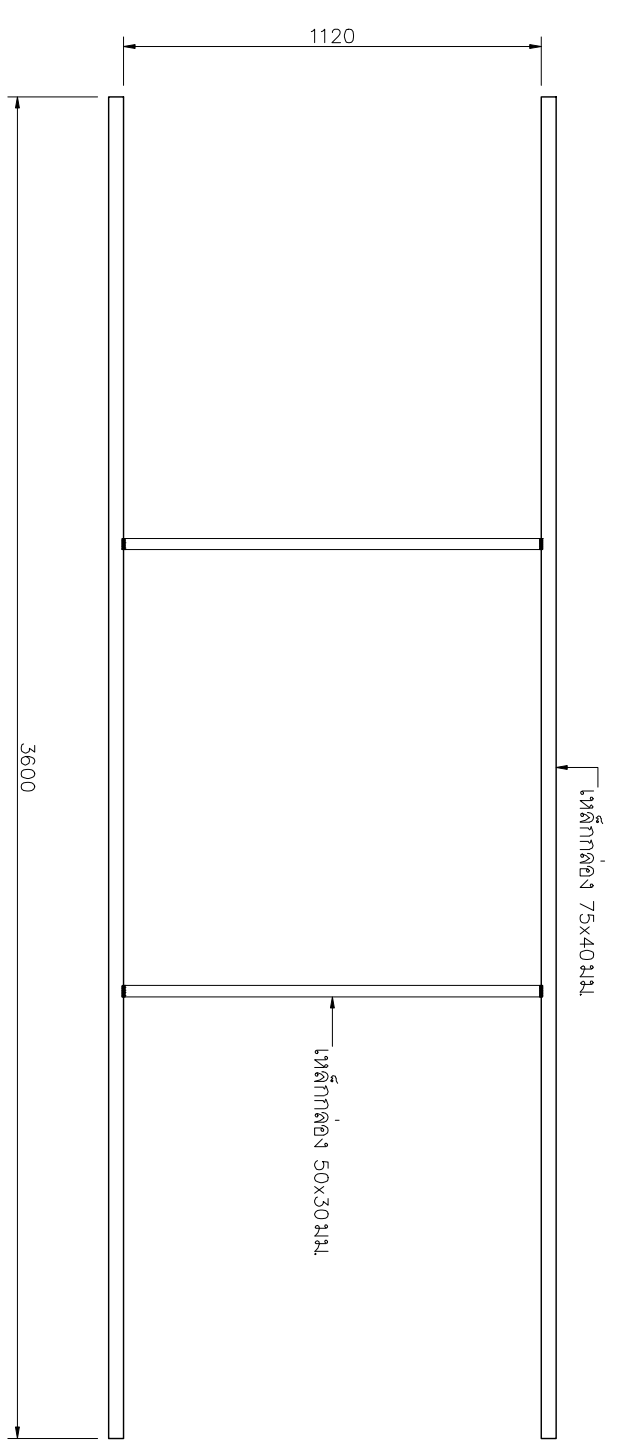
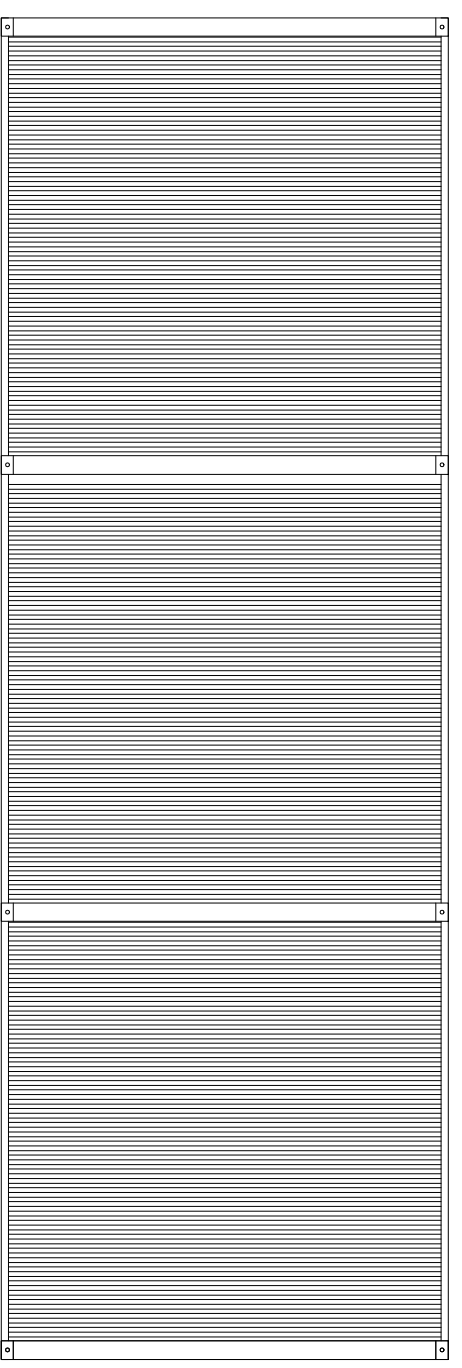
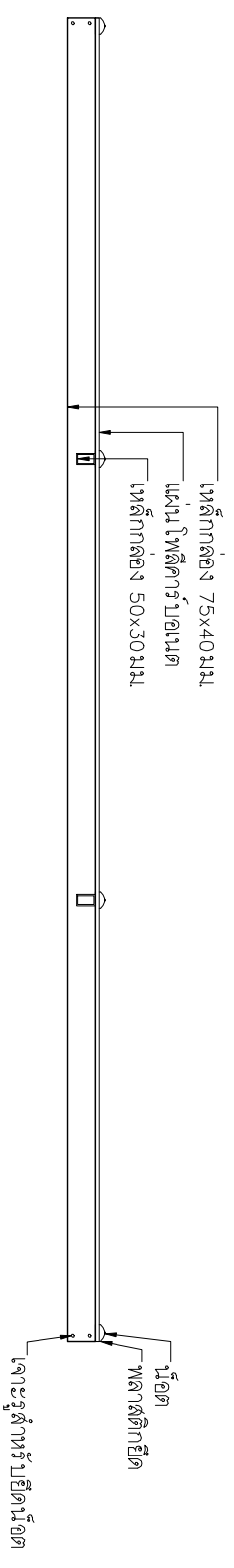
TOTAL : 28



GENERAL NOTE : _____ DATE : _____ SPECIAL MENTION DATE : _____

OWNER : National Cancer Institute สถาบันมะเร็งแห่งชาติ		APPROVE BY :	JOB NO :
PROJECT : Renovation Server Room	TITLE OF DRAWG : DETAIL CONTAINMENT PART 1	ENGINEER :	SHEET NO : 26
LOCATION : BANGKOK	SCALE : 1-30 (A3)	DATE : 07-08-57	DRAWING :
			TOTAL : 28

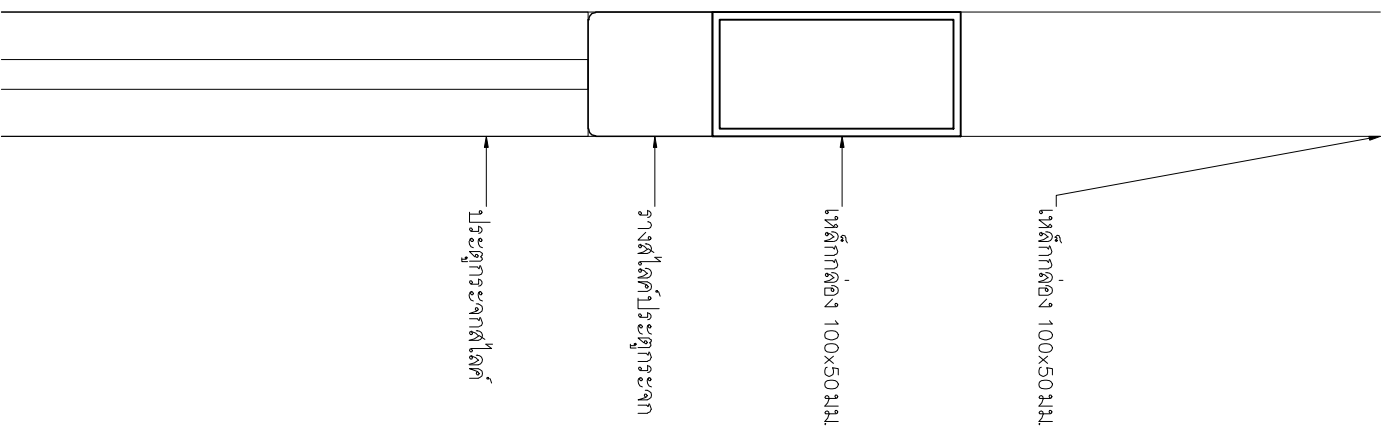




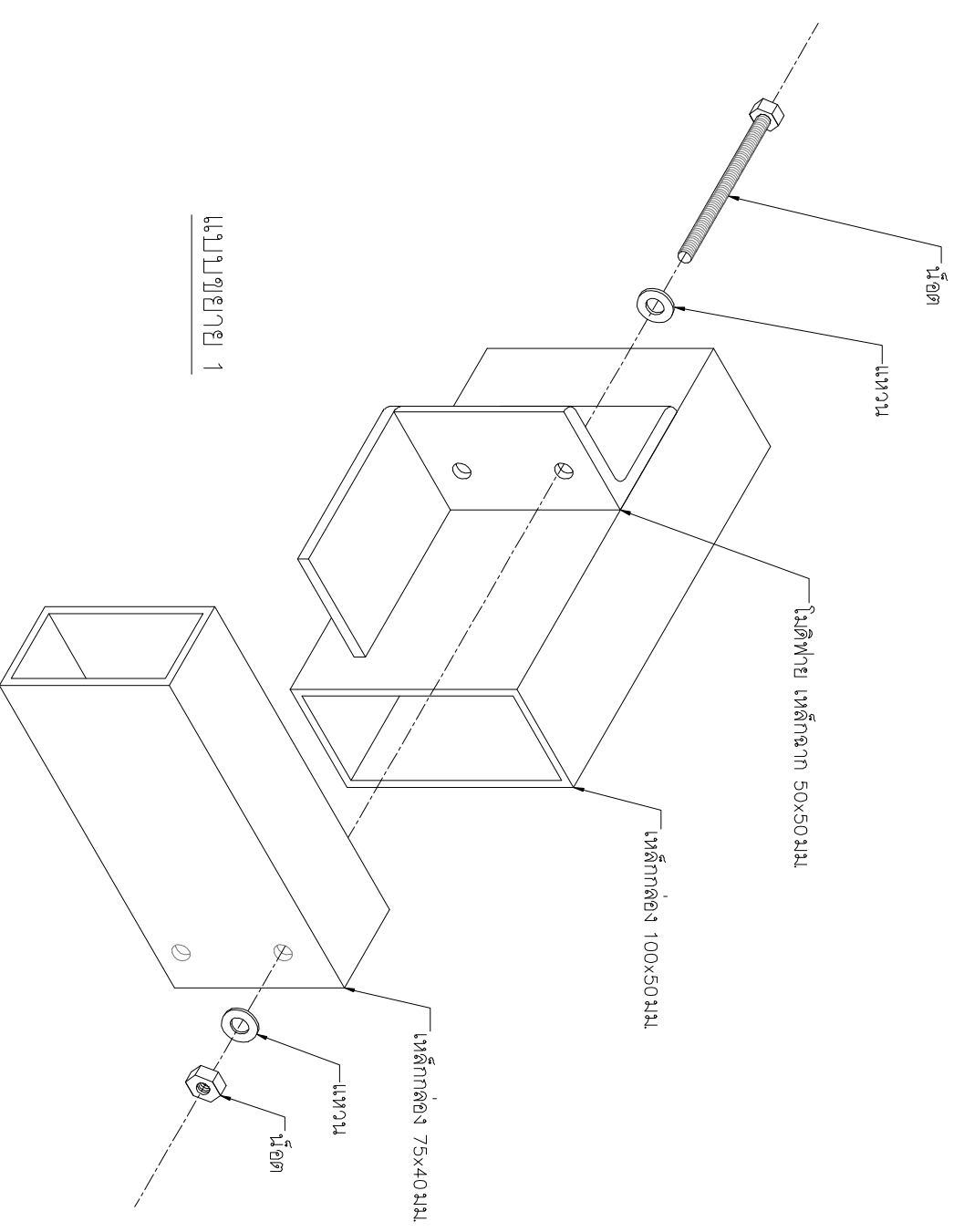
GENERAL NOTE :
 DATE :
 SPECIAL MENTIONDATE :

OWNER : National Cancer Institute สถาบันมะเร็งแห่งชาติ		APPROVE BY :	JOB NO :
PROJECT : Renovation Server Room	TITLE OF DRAWG : DETAIL CONTAINMENT PART 2	ENGINEER :	SHEET NO : 27
LOCATION : BANGKOK	SCALE : 1-20 (A3)	DATE : 07-08-57	DRAWING :
			TOTAL : 28





แบบรูปถ่าย 1



แบบรูปถ่าย 1

GENERAL NOTE : _____ DATE : _____ SPECIAL MENTIONDATE : _____

OWNER : National Cancer Institute สถาบันมะเร็งแห่งชาติ		APPROVE BY :	JOB NO :
PROJECT : Renovation Server Room	TITLE OF DRAWG : TYPICAL DETAIL	ENGINEER :	SHEET NO : 28
LOCATION : BANGKOK	SCALE : 1-50 (A3)	DATE : 07-08-57	DRAWING :
			TOTAL : 28

