CHAPTER 7 CONCLUSION AND RECOMMENDATIONS

7-1 Conclusion

This project is of vital importance to the revitalization and reconstruction of Ghana's radio and television broadcasting service, and is also indispensable for the national stability and economic rehabilitation which is given top priority by the Ghanaian Government.

Reconstruction of radio studios under the project, to be carried out in combination with the rehabilitation plan of radio transmission facilities currently pushed forward by Ghana's own selfhelp efforts, will bring into being again the brilliant mass radio communication network which the country had years ago and will also invigorate the information service in Ghana.

The commencement of the new colourcast to be realized by the project will open up a new era of advanced infrastructure in the area of information service, and the combined development of radio and television broadcasting services will contribute immensely to the improvement of Ghanaian people's cultural and living standards and to the revitalization of Ghana's economy.

These future developments envisaged under the project can never be realized with the existing superannuated broadcasting facilities, nor by Ghana's single-handed efforts to rehabilitate such facilities. It can therefore be said in conclusion that the reconstruction of principal superannuated facilities with the Grand Aid from Japan is highly justifiable.

7-2 Recommendations

In order for the project to be implemented smoothly as planned and produce the expected development effects, the Ghanaian Government is urged to pay due attention to the following recommendations.

(1) The Accra, Cape Coast and Kumasi regions will be covered by the television service after completion of the project, and a new television transmitter station will also be built at Bolgatanga under a micro route construction project. However, the Tamale region and the relatively densely populated regions of Sunyani and Amedzofe will be left out of the revived television service area. It is therefore recommended that the television service network should be expanded at the earliest possible date to cover these regions.

It is recommended that suitable sites should be selected for installation of public colour television receiver sets, and that an adequate operation and maintenance system should be established for assurance of longeval service of such public receiver sets.

(3) the purpose of lasting service of all rehabilitated For facilities, it is recommended that an appropriate training system should be instituted and operated to enable GBC's technical staff to acquire the advanced broadcasting technology using transistors, ICs, etc. and to introduce the latest know-how and technological data from overseas countries,

CHAPTER 8 APPENDIX

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Minutes of Discussion

ón The Réhabilitation Froject for Radió and Television Broadcasting Syste⊡

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In response to the request by the Government of Ghama, the Government of Japan has sent, through the Japan International Cooperation Agency, a team headed by Mr. Ryoji Adachi (Deputy Director, Cablecast Division, Broadcasting Administration Bureau, Ministry of Fosts & Telecommunications) to conduct a Basic Design Study on the Rehabilitation Froject for Radio and Television Broadcasting System (hereinafter referred to as "the Froject"), from July 28 to August 30, 1984.

The Team has conducted the field survey, held a series of discussions and exchanged views with the Ghana Broadcasting Corporation and other authorities of the Government of Ghana.

As a result of the survey and discussions, both sides have agreed to recommend to their respective Governments to examine the result of the study attached herewith towards the realization of the Project.

Accra, August 10, 1984.

Ryoji Adachi Team Leader Japanese Study Team

Kr. L.W. Fifi-Eesse Director-General Ghane Broadcasting Corporation

<u>KIKUPEŞ</u>

- The objective of the Project is to provide facilities and equipment for the Radio and Television Studios and the Television Broadcasting Transmitting Stations in order to rehabilitate the broadcasting system with a view to promoting educational and cultural activities.
- 2. The Ghana Broadcasting Corporation is responsible for the implementation of the Project on the Ghana side.
- 3. According to priority, facilities and equipment to be rehabilitated are as follows :
 - 1) Radio Studio Equipment for Accra Broadcasting Station
 - 2) Television Studio Equipment for Accra Broadcasting Station
 - 3) Television Transmitting Facilities for Adjangote Station
 - 4)- ditto-for Jamasi Station5)- ditto-for Kissi Station
- 4. The Japanese Study Team will convey to the Government of Japan the intention of the Government of Ghana that the former takes the necessary measures to cooperate in implementing the Froject and providing the facilities and equipment listed in Annex I within the scope of Japanese Economic Cooperation in Grant form.
- 5. The Government of Ghana will take the necessary measures listed in Annex II on condition that the Grant Assistance by the Government of Japan is extended to the Project.
- 6. Both sides confirmed that the Japanese Study Team explained the Japanese Grant Aid Programme and Ghana side understood it.

是主张二

ANDEX I

1. Radio Studio Equipment for Acora Broadcasting Station

- Studio equipment for several studios

- Related continuity Studio and Control Room facilities
- Radio C.B. Van with facilities

2. TV production studio equipment for Accra Broadcasting Station

- Video production equipment
- Audio production equipment
- Nonitoring equipment
- Colour cameras
- Lighting equipment
- 1 inch VTR's and 7 inch U-matics
- 1 set Telecine Chain
- Other necessary facilities

3. Necessary Power Supply System for Accre Broadcasting Station

4. TY transmitter systems

- Adjangote Transmitter Station
- Jamasi Transuitter Station
- Kissi Transmitter Station
- 5. TV sets for the diffusion of educational TV programme in rural communities and schools.

定立度= 8月10日

ANNEL 11

1. To provide data and information necessary for basic design.

2. To ensure prompt unloading, tax examption, customs clearance at the ports of disenterkation in Ghana and prompt internal transportation of the products purchased under the Grant.

- 3. To exempt the Japanese nationals concerned from customs duties, internal taxes and other fiscal levies imposed in Ghane with respect to the supply of the products and services for the Froject.
- 4. To provide necessary permissions, licences and other authorizations for carrying out the Project.
- 5. To bear all expenses other than those to be borne by the Grant, necessary for the execution of the project.
- 6. To maintain and use properly and effectively the facilities and equipment purchased under the Grant.

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MEMBERS OF THE BASIC DESIGN STUDY TEAM

Name

Duty-in-charge

Title

Mr. Ryoji ADACHI

Team Leader

Deputy Director, Cablecast division, Broadcasting Administration Bureau, Ministry of Posts & Telecommunications.

Basic Design Division, Grant Aid Department, Japan International Cooperation Agency. (JICA).

Manager of International Division, All Japan Radio & Television Engineering Services Co., Ltd.

Chief Engineer of International Division, All Japan Radio & Television Engineering Services Co., Ltd.

Chief Engineer of Architectural Division, All Japan Radio & Television Engineering Services Co., Ltd.

Mr. Yoshihide TERANISHI Project Coordinator

Mr. Hiroaki OTSUKA

Mr. Masami DOUCHI

Mr. Yoshihiro KOSUGI

Transmitting Tower Building

Broadcasting System

Planning

. . .

Transmitting

Facilities Planning

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LIST OF CONCERNED PERSONS MET BY THE BASIC DESIGN TERM

Ministry of Information H.E. Joyce ARYEE, Mr. Kofi Totobi QUAKYI,

Secretary Deputy Secretary

Ministry of Finance and Economic Planning Mr. SECHIAMAH, Acting

Acting Chief Director of International Economic Affair Department

Mrs. Ayisi-O-KYERE

King of Ashanti State

H.H. Nana Opoku-WARE-II, King of Ashanti Region

Regional Secretary of Sunyani Mr. C.S. GECHIE,

Regional Secretary

GBC (Ghana Broadcasting Corporation Acera)

Mr. L.W. Fifi HESSE,	Director-General
Mr. Owusu PREMPEH,	Deputy director-General
Mr. D.M. QUAICOE,	Director of Administration
Mr. Peter HALL CHINERY,	Ag, Director of Tech. Services
Mr. T.N.L. BONSO-BRUCE,	Ag, Director of Engineering
Mr. Oscar A. KWAWUKUME,	Chief Engineer Plan &
	Development
Dr B.A. OPPONG,	Principal Engineer (Sound)
Mr. I.A.K. QUARTEY,	Ag. Asst. Director of
	Engineering
Mr. K.B. HAIZEL,	Chief Engineer (Sound)
Mr. K.D. FRIMPONG,	Ag. Chief Engineer (TV)
Mr. F.O. DIOGO,	Chief Tech, Co-ord,

Mr. P.H. CHINERY, Mr. J. QUARSHIE, Mr. R.D. LARYEA, Mr. J.E. SOLOMON, Mr. E. Nat. ANI, Mr. E.A. AMARH, Miss LOKKO,

GBC (Cape Coast Region) Mr. S.A.F. AMISSAH, Mr. M.C. YALLEY,

GBC (Kumasi Ashanti Region) NANA B. AKYEAMPONG II Mr. P.O. AFFUL Mr. I.A. FREMPONG,

GBC (Jamasi TV Station) Mr. N.A. AMMAH, Mr. B.D. APPIAH, Ag. Director of Tech. Services Snr. Tech. Co-ord. Chief Tech. Co-ord. (TX) Chief Engineer (Transmission) Ag. CTC (TV) Chief Public Relations Engineer

Regional Manager Asst. Tech. Cord.

Regional Manager Snr. Tech. Co-ord. Technical Co-ord.

Technical co-ordinator Chief Technical Supt.

GBC (Sunyani Regional Station) Mr. George C. ADJEI,

Senior Editor

Tema Port Office Mr. S.O. ASAH, Mr. Joseph K.A. BAIDOO

Transport Officer Port Operation Manager

GHANA SANYO ELECTRICAL MFG. CORP. LTD. (Tema)

Mr. Hiorohisa Hirano,General ManagerMr. Jordan KWASHIE,Principal SupervisorMr. Samuel M. TETTEH,Factory Manager

- 93 -

Mr.	Jacob E. G. DENTU,	Manager
Mr.	Seth K. ADANE,	Asst. Factory Manager
Mr.	Samuel K. TSAHEY,	Chief Accountant
Mr.	Enout LAOZTEY,	Factory Manager

.

Embassy of Japan (Accra Ghana) H.E. Naoki NAKANO,

> H.E. Akira HOSHINO, Mr. Shigeru OKUMURA, Mr. Shigeru ONUMA, Mr. Shoujun Sunagawa,

•

Ambassador Extraordinary and Plenipotentiary Counsellor Second Secretary Third Secretary Officer

۰.

LIST OF COLLECTED DATA

- 1. Ghana in Retrospect (Some Aspects of Ghanaian Culture) (Ghana Publishing Corporation)
- Basic Information on Ghana
 (Ghana Tourist Board, Marketing Department)
- Social Structure of Ghana (Ghana Publishing Corporation)
- Tropical Geography (H. R. Jarrett) (MACDONALD AND EVANS)
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- QUARTERLY DIGEST OF STATISTICS December 1983 (Central Bureau of Statistics Accra)
- Broadcasting in Ghana (Published by GBC)
- Ghana Broadcasting Corporation Decree 1968 (N.L.C.D. 226)
- 9. GBC Handbook (GBC)
- Ghana Bulletin
 (Prepared by Ghana Embassy TOKYO)
- 11. Ghana 1977 (An official handbook) (Information Services Department)

- 12. The P.N.D.C. BUDGET STATEMENT and ECONOMIC POLICY FOR 1984 (P.N.D.C. Secretary for Finance and Economic Planning) (MARCH 27, 1984)
- 13. ditto FOR 1983 (APRIL 21, 1983)

14. Interpretation of Seismic Reflection Survey across the Continental Shelf South of Accra and its bearing on Earthquakes in the Area (Ministry of Land and Mineral Resources Geological Survey Department)

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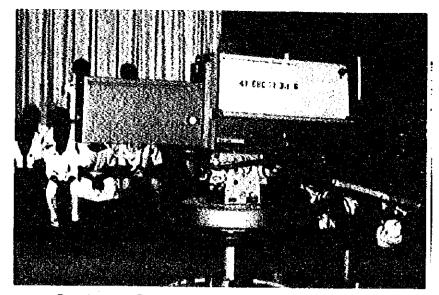
- 15. Map (scale: 200,000) x approx. 7 sheets
- 16. Map (scale: 62,500) x approx. 100 sheets
- 17. Map (Scale: 50,000) x approx. 80 sheets
- Road Map of Southern Ghana (scale: 500,000) (The Survey of Ghana)
- 19. Road Map of Northern Ghana (Scale: 500,000)
- 20. Republic of Ghana Report on Feasibility Survey for Television Network Expansion Project (Japan International Cooperation Agency, March 1973)

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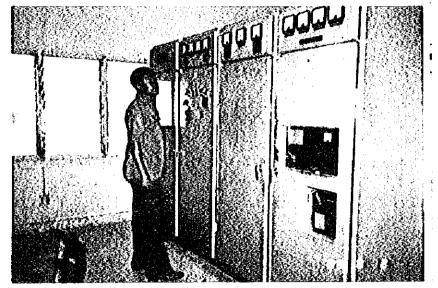
ADDRESS OF GHANA BROADCASTING CORPORATION

GHANA BROADCASTING CORPORATION P.O. Box 1633 Acera <u>G H A N A</u> Telegram: BROADCAST Acera Telex : 2114 GHANA Tel : 21161 (Acera)

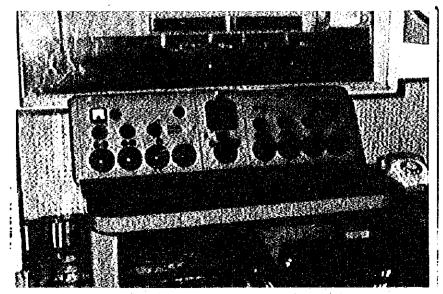
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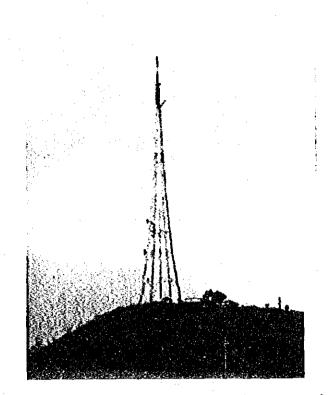
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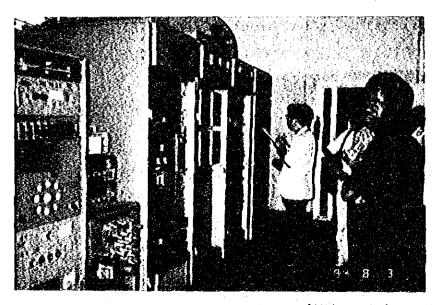
Existing Shortwave Transmitter (Accra)



Existing Radio Studio (Acera)



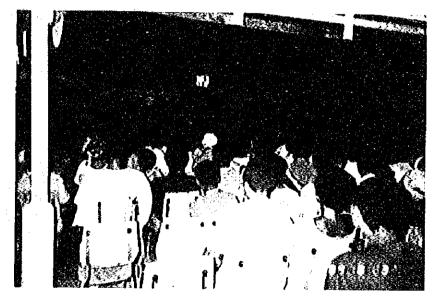
Existing Transmitting Station (Adjangote)



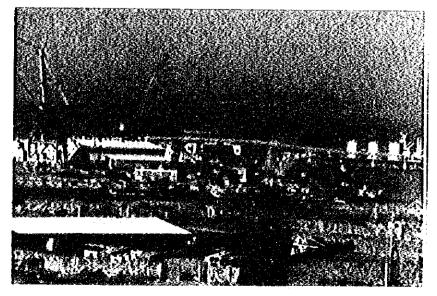
Existing Television Transmitter (Adjangote)



Address of Secretary at Ceremony



Public Television in Community Centre



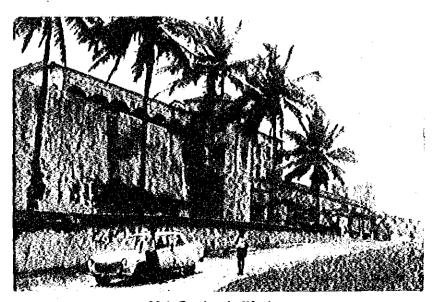
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Meeting with GBC Staffs

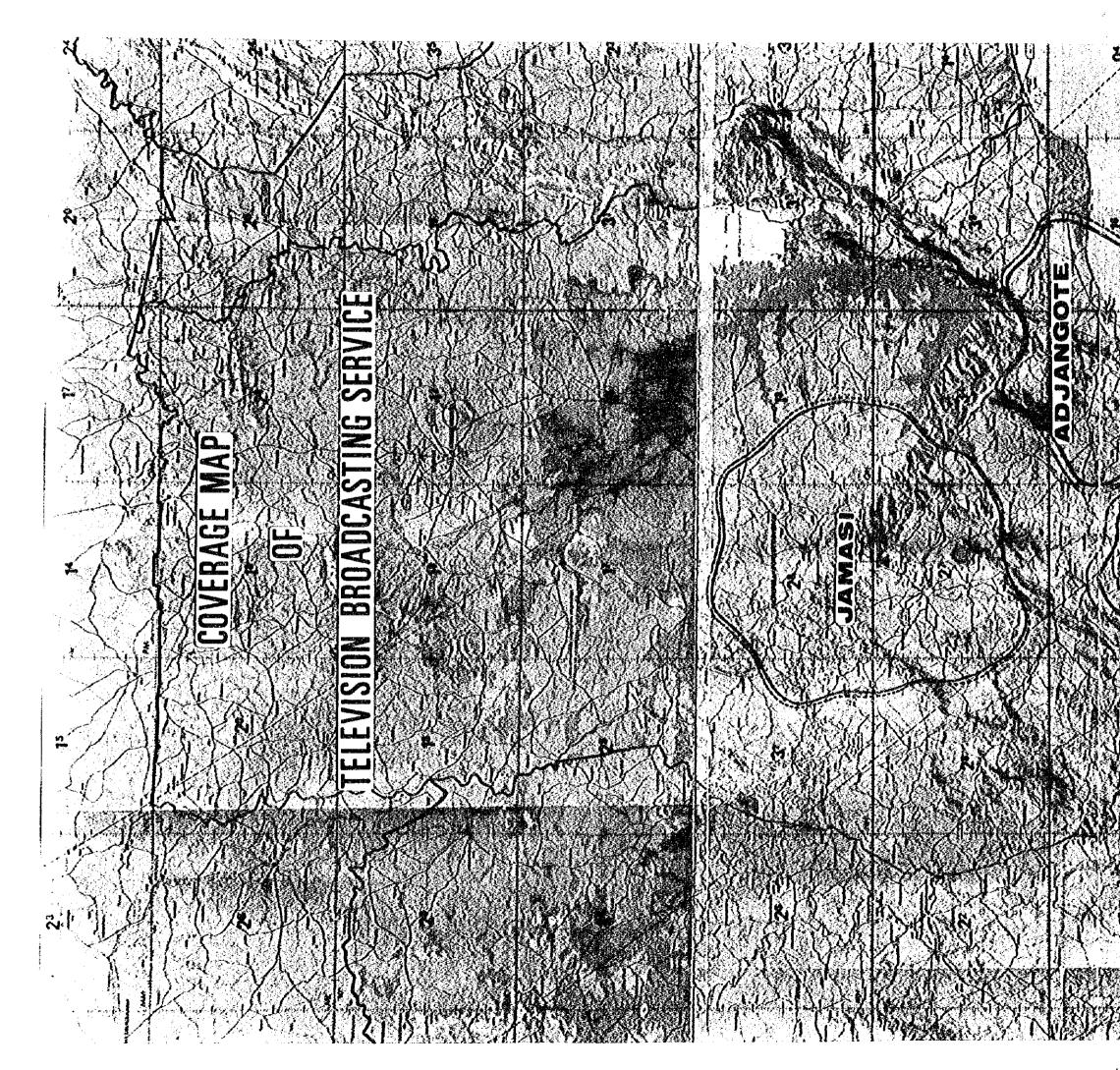


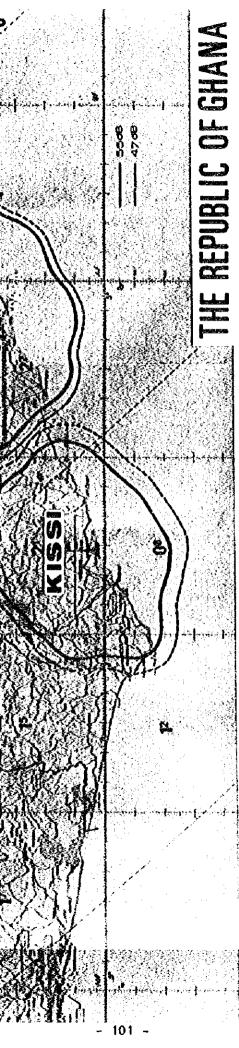
Signing of Minutes of Discussion



Old Fort at Elmina

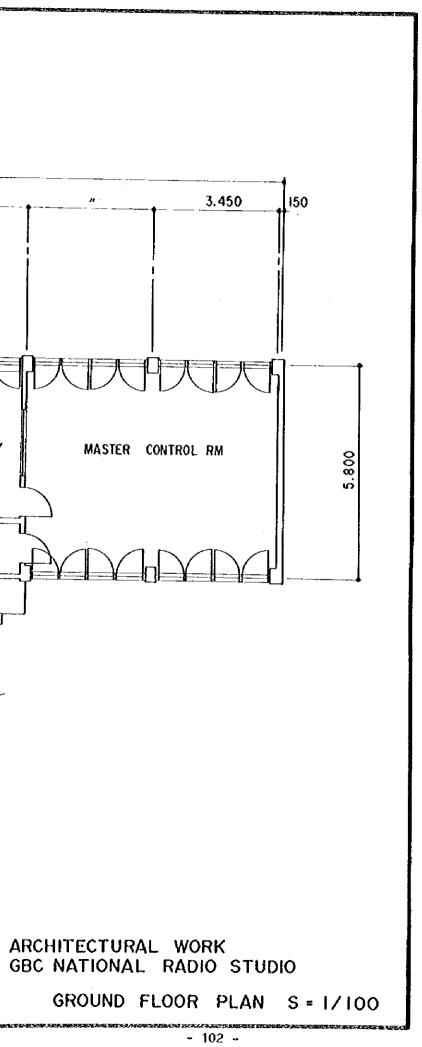
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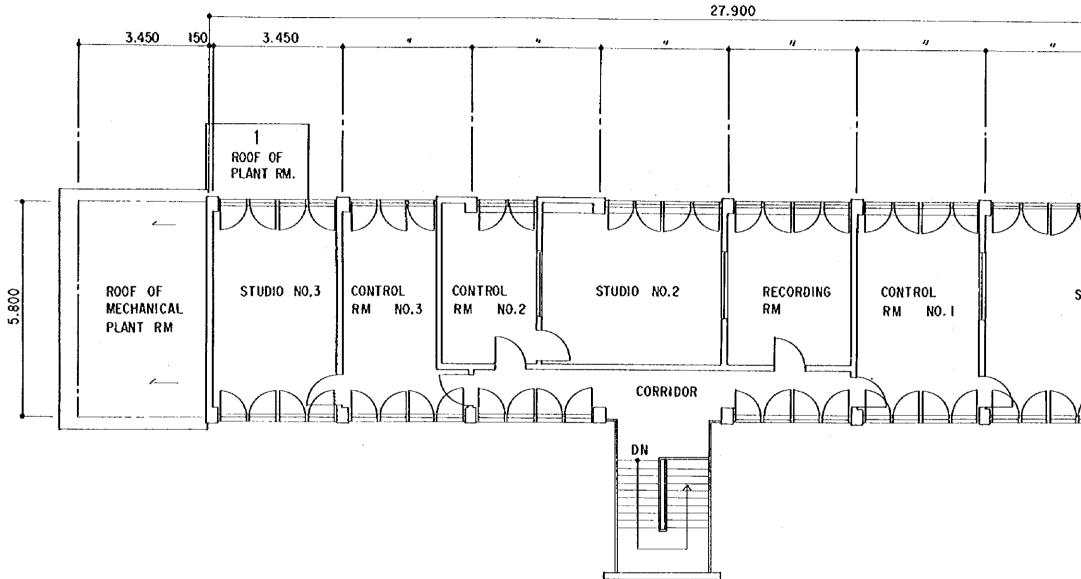


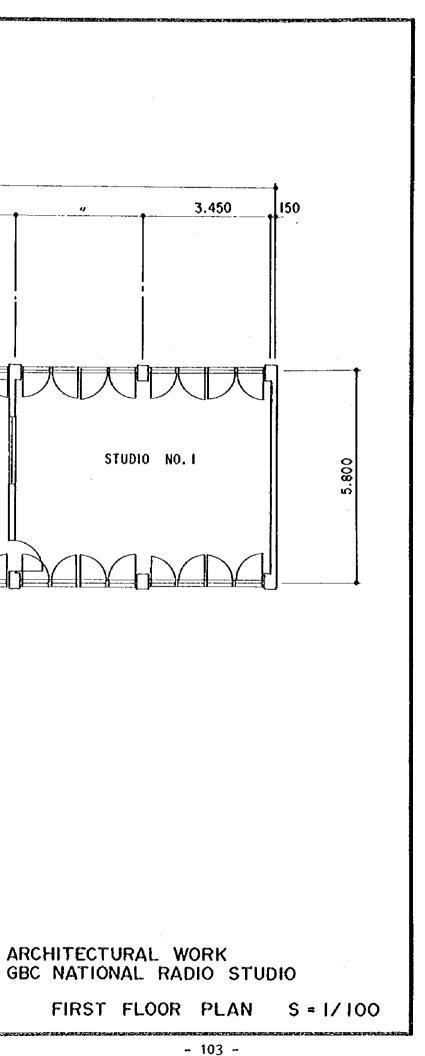


CHAPTER 9 BASIC DESIGN DRAWINGS

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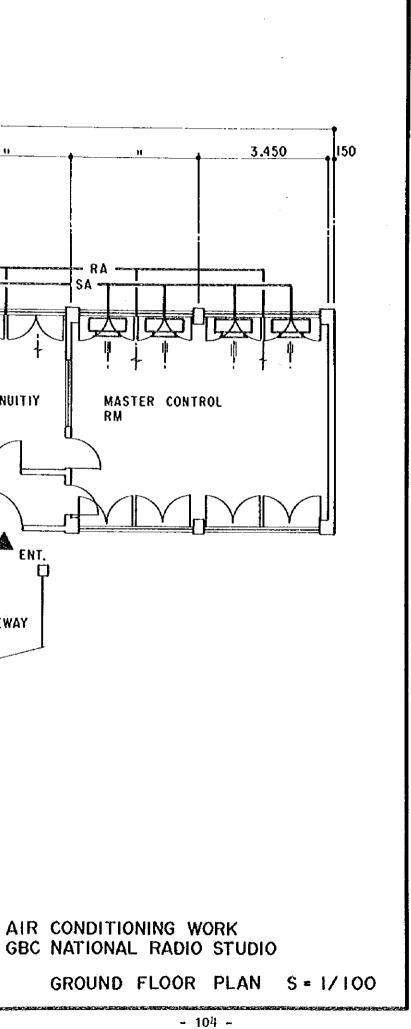
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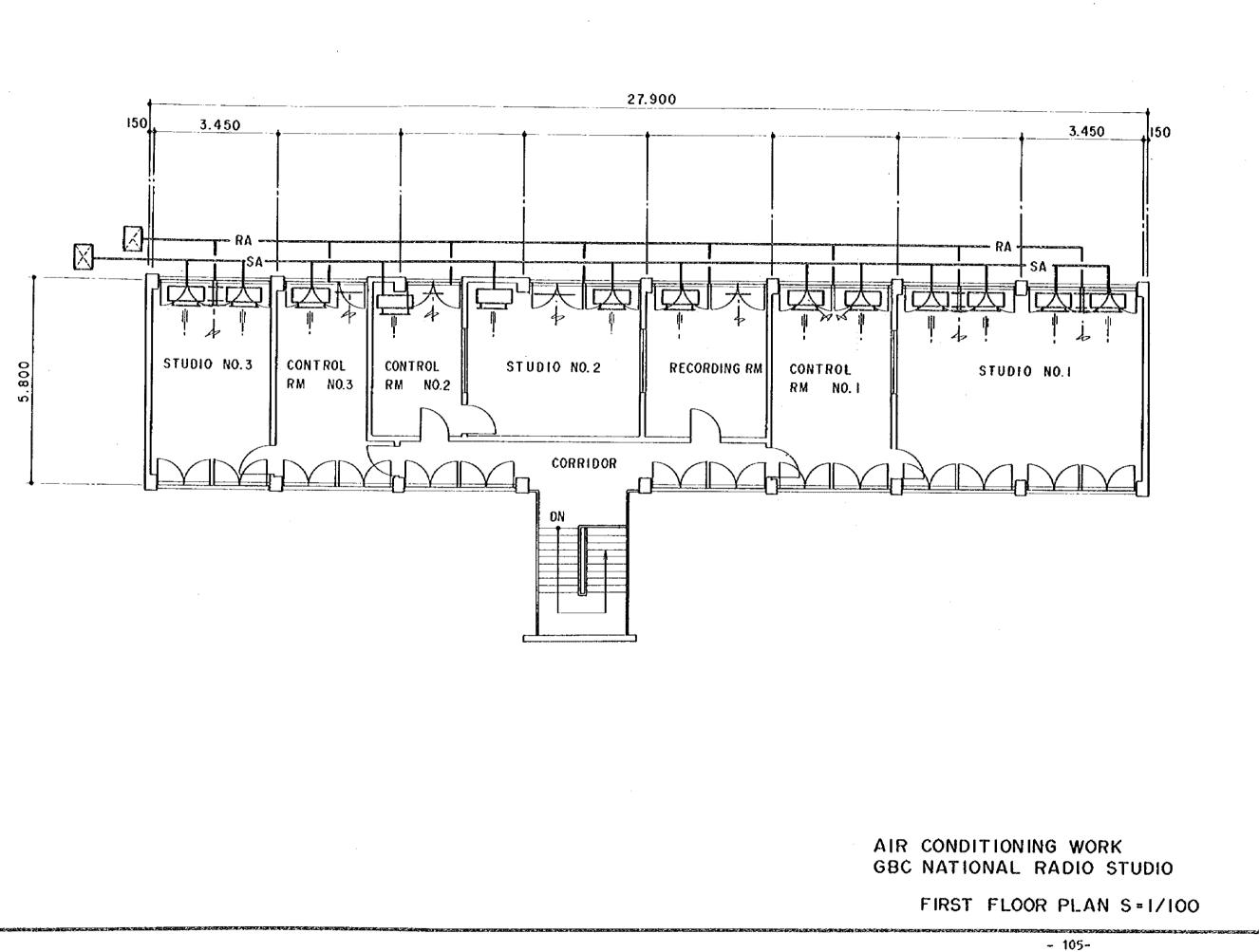
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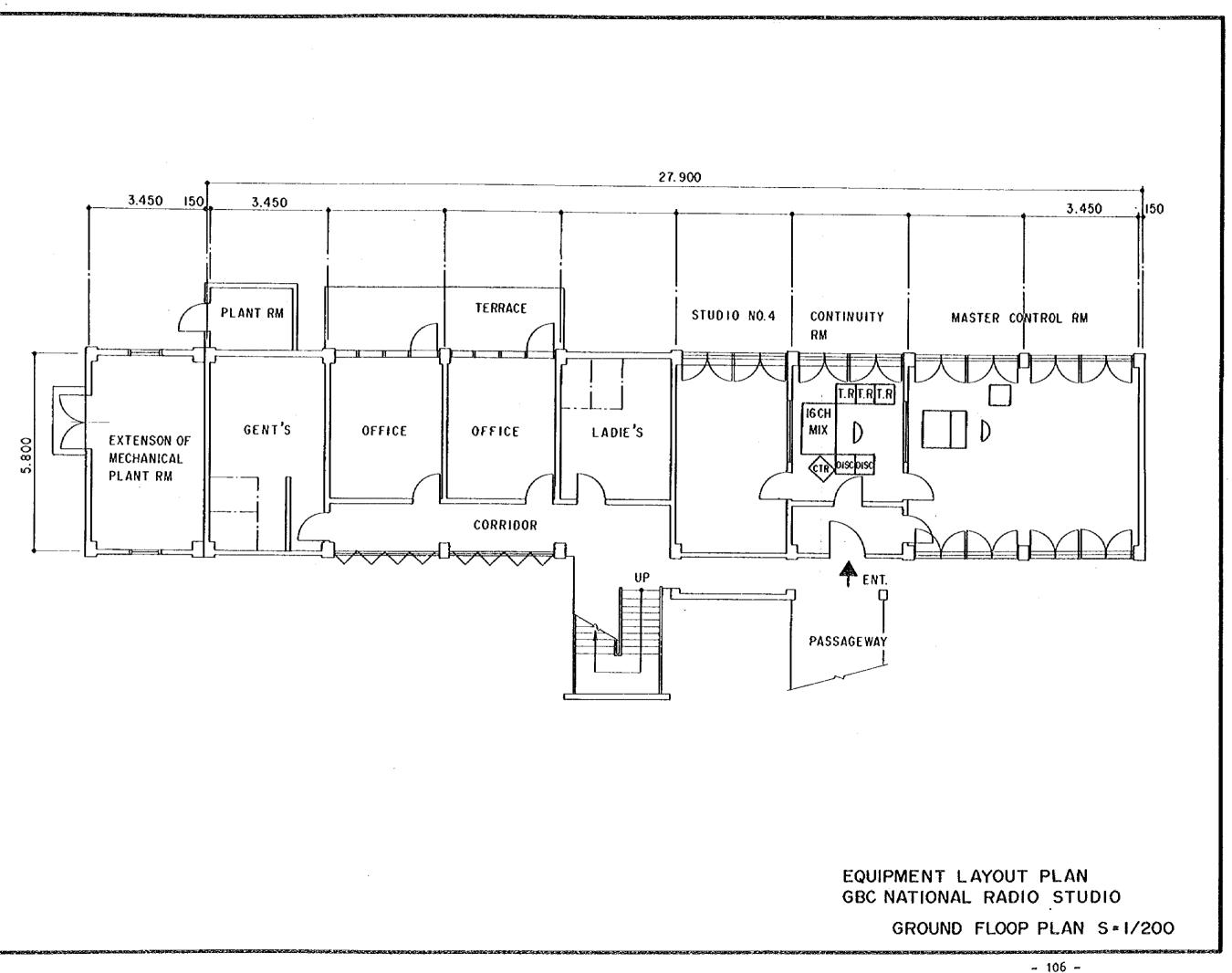
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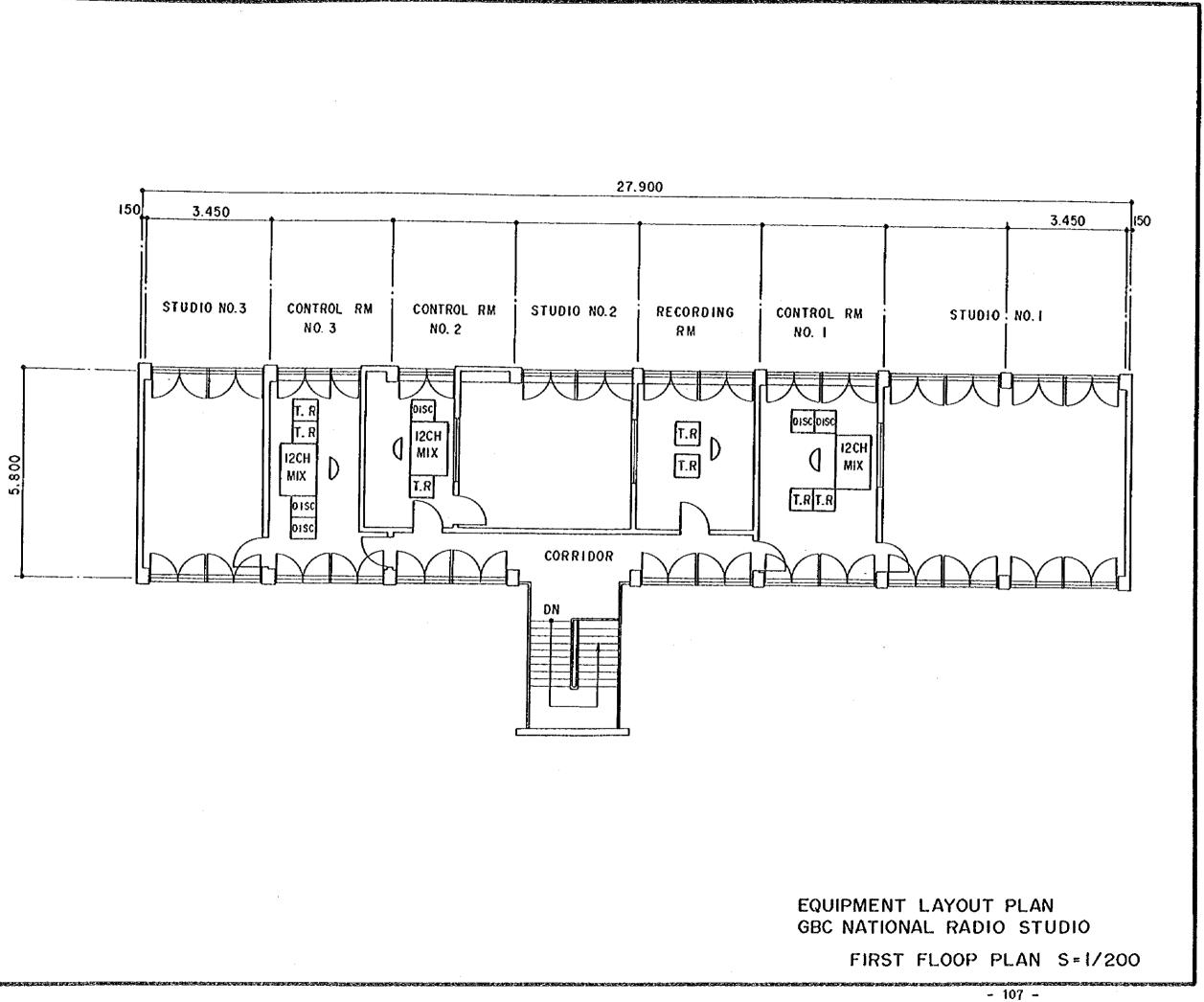
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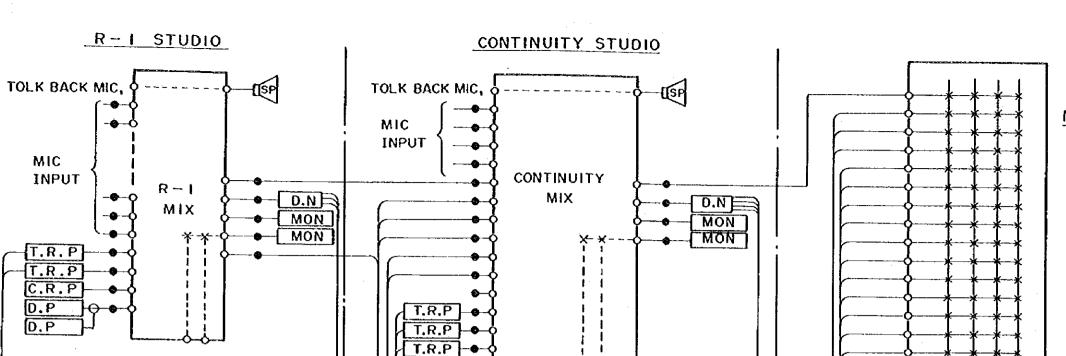
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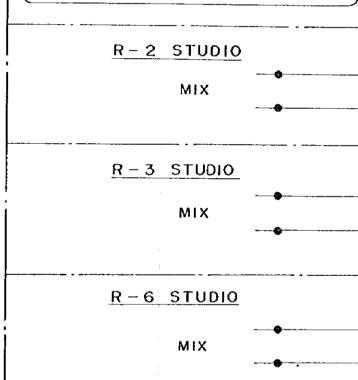
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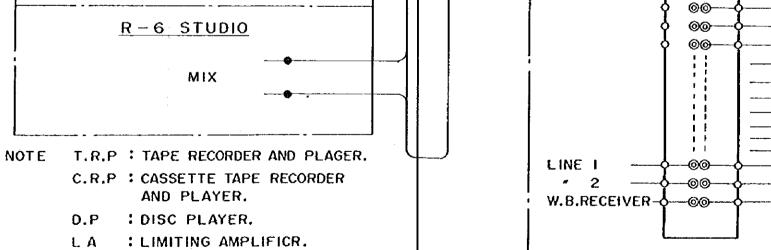
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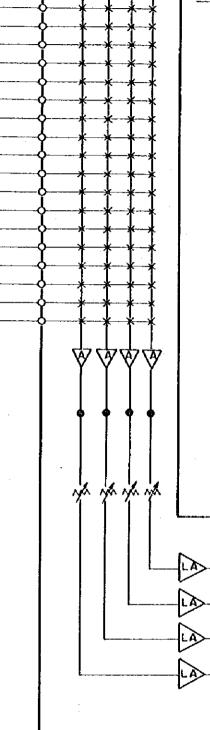
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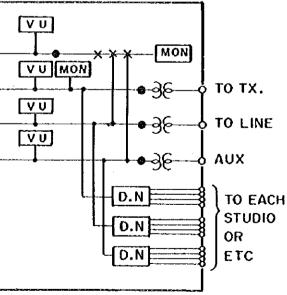
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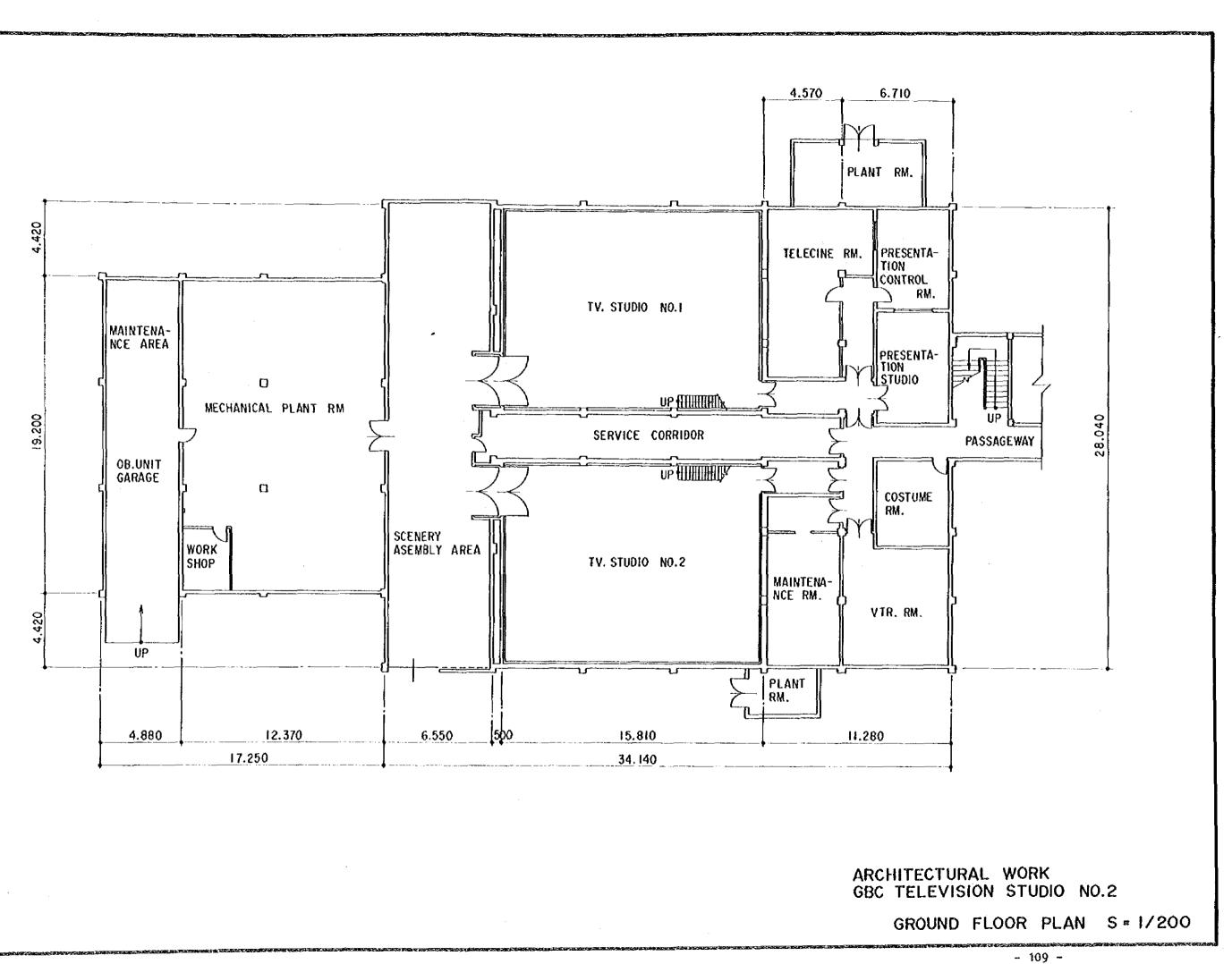
SYSTEM DIAGRAM

MASTER CONTROLL

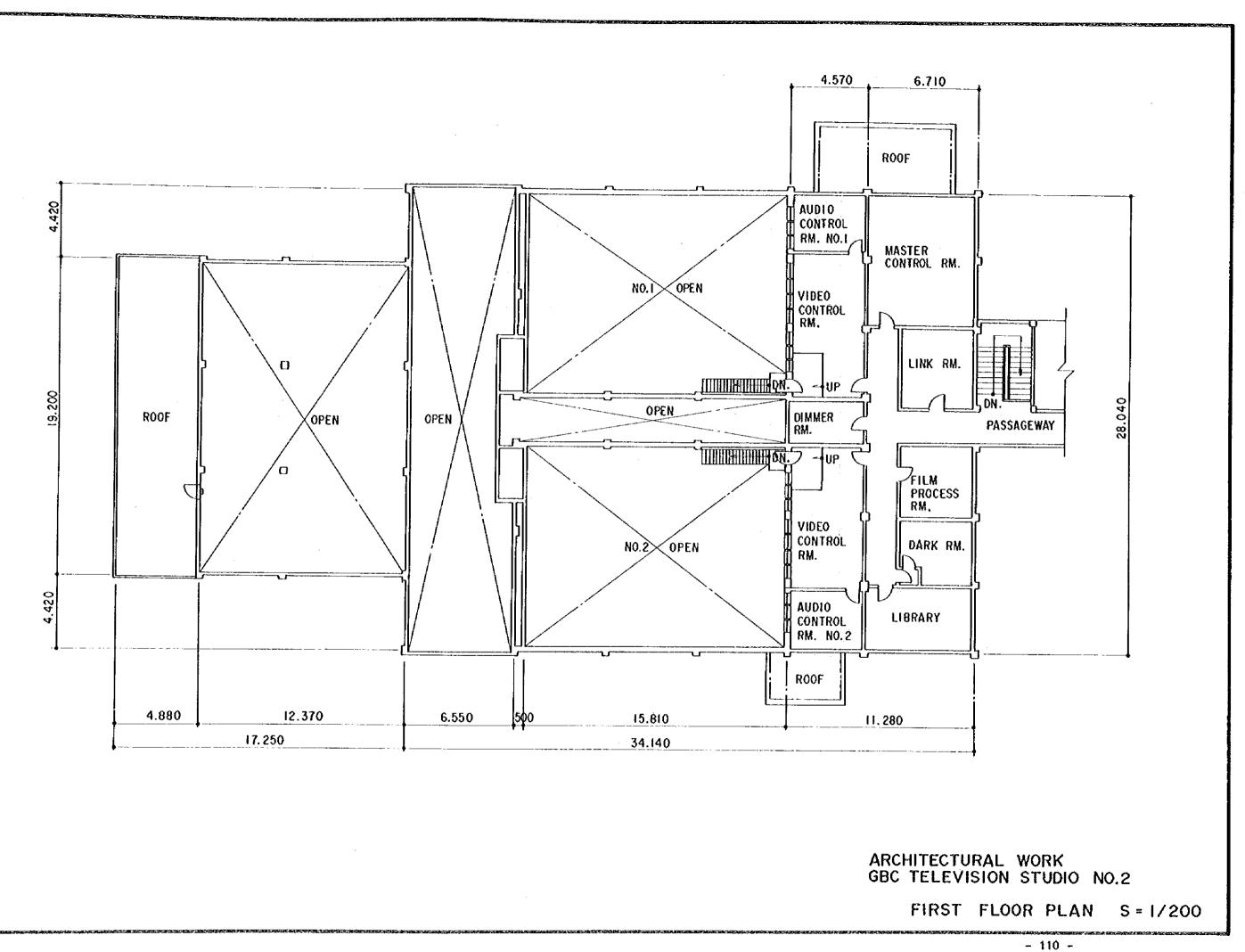


GBC NATIONAL RADIO STUDIO

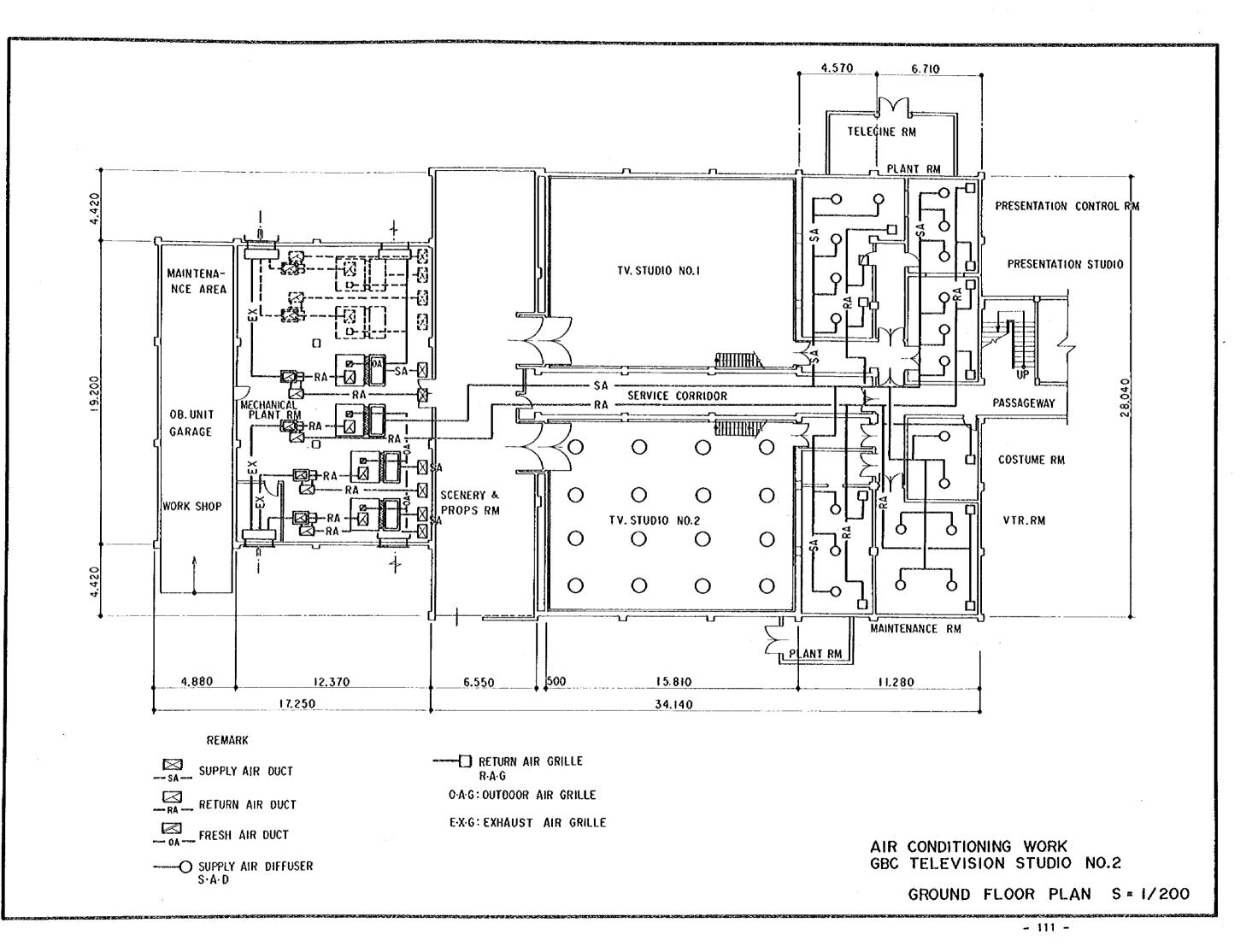
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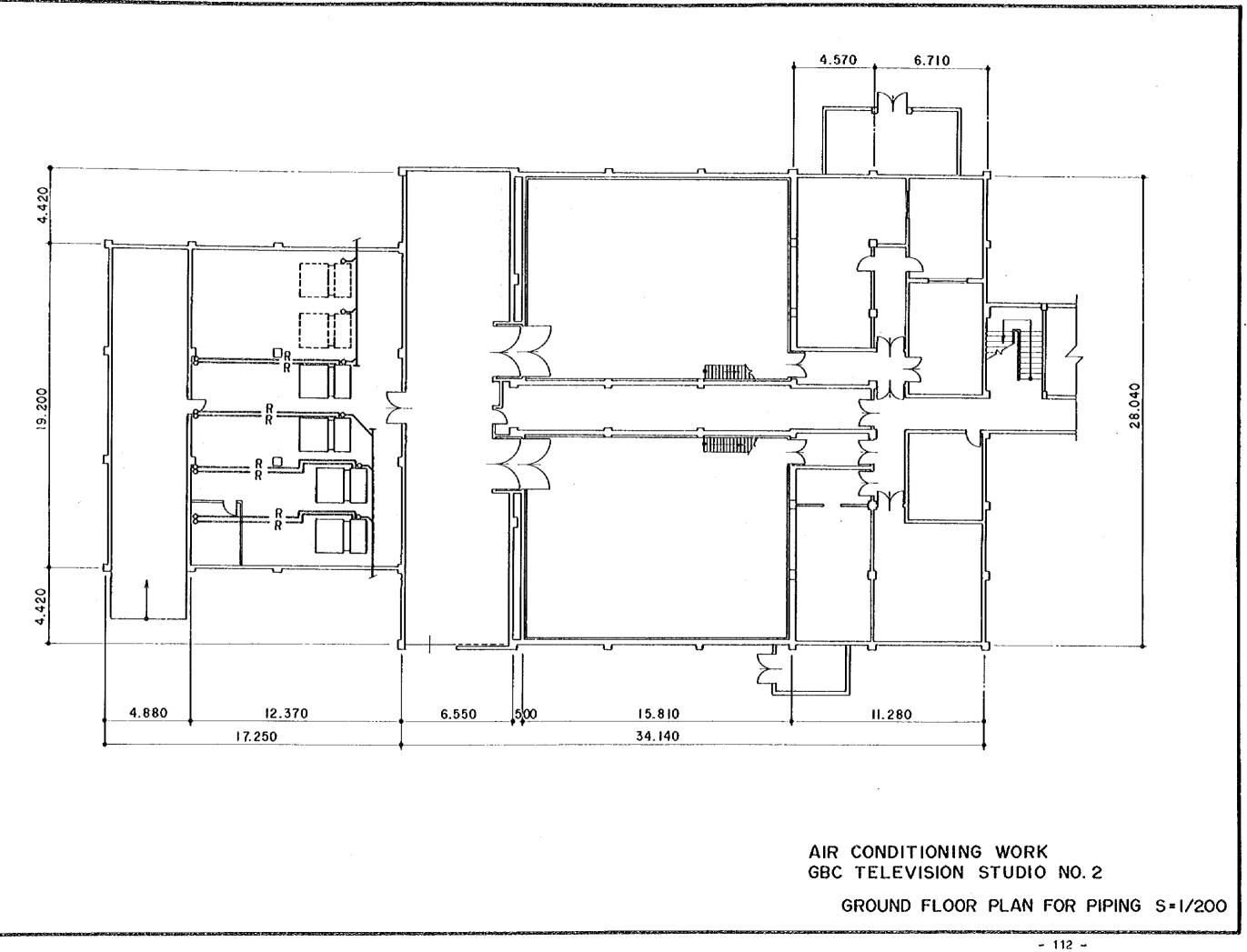


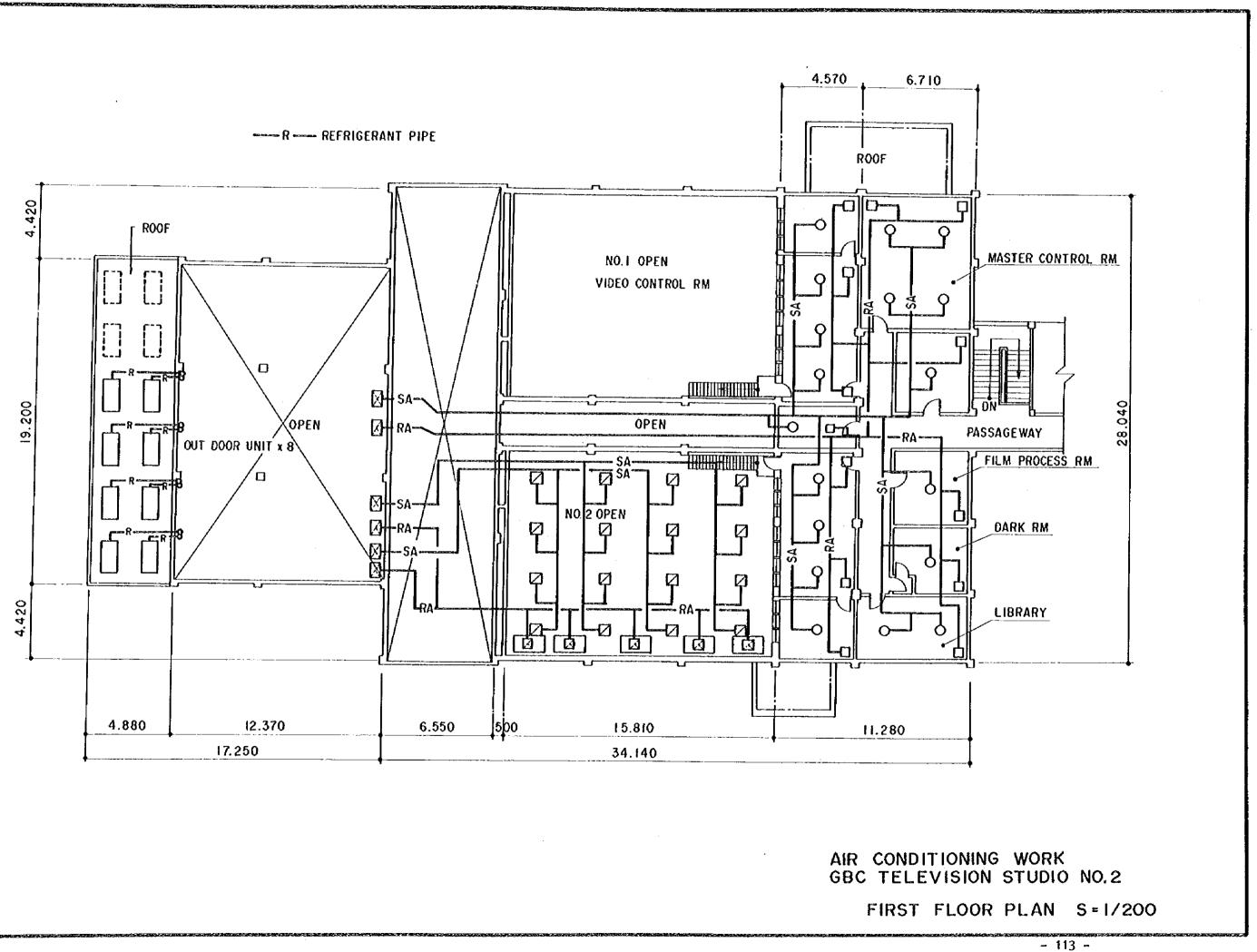
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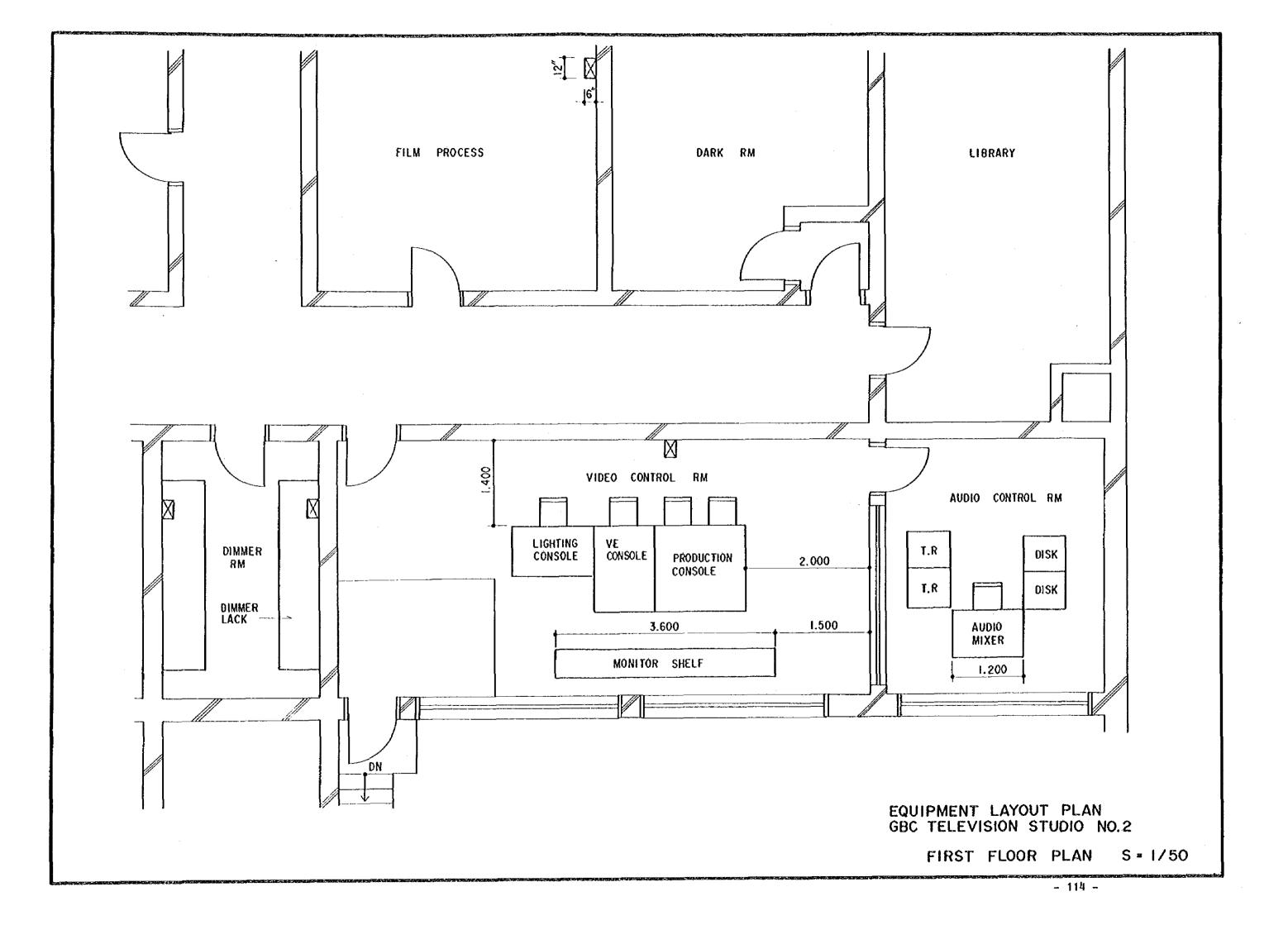


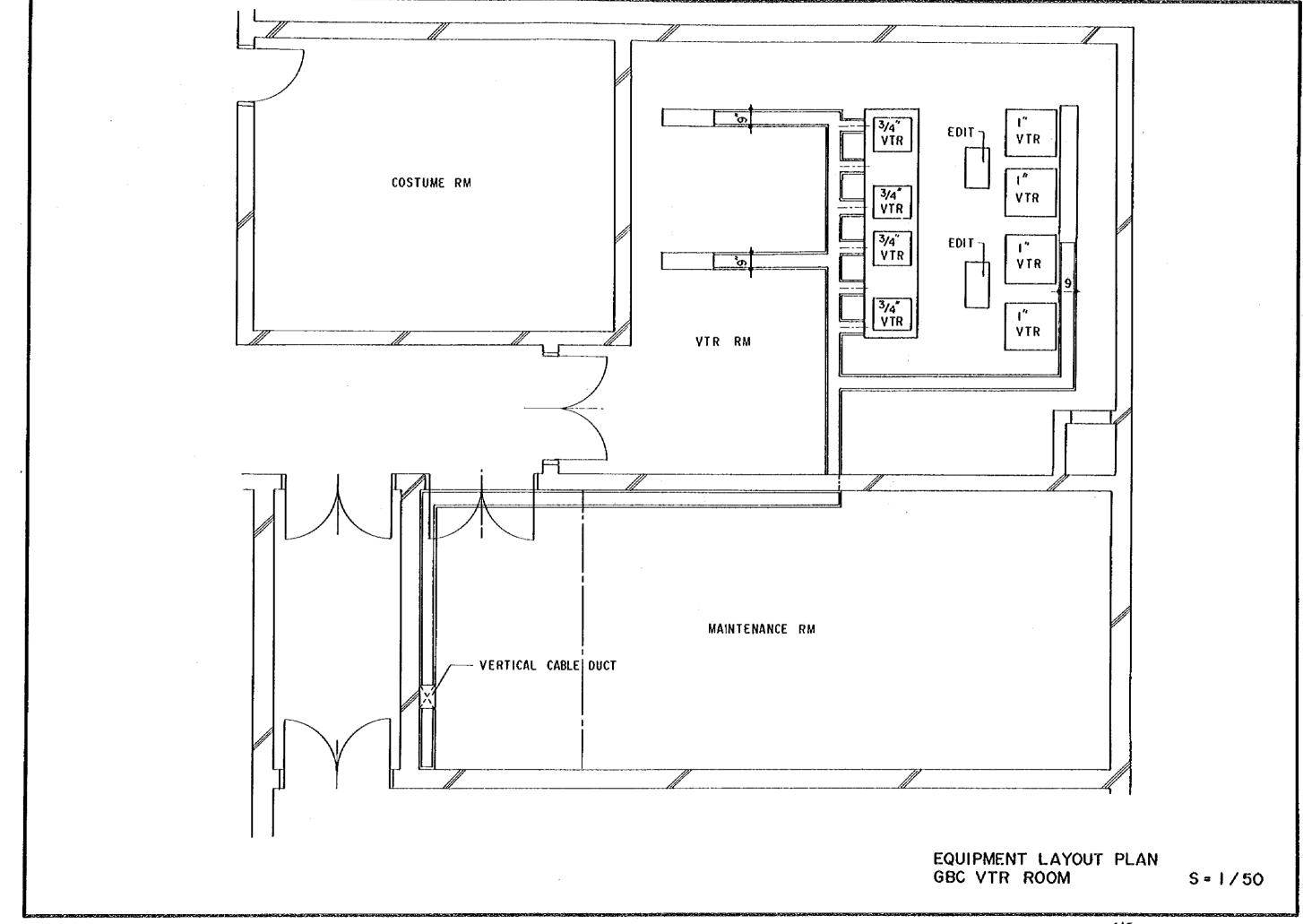
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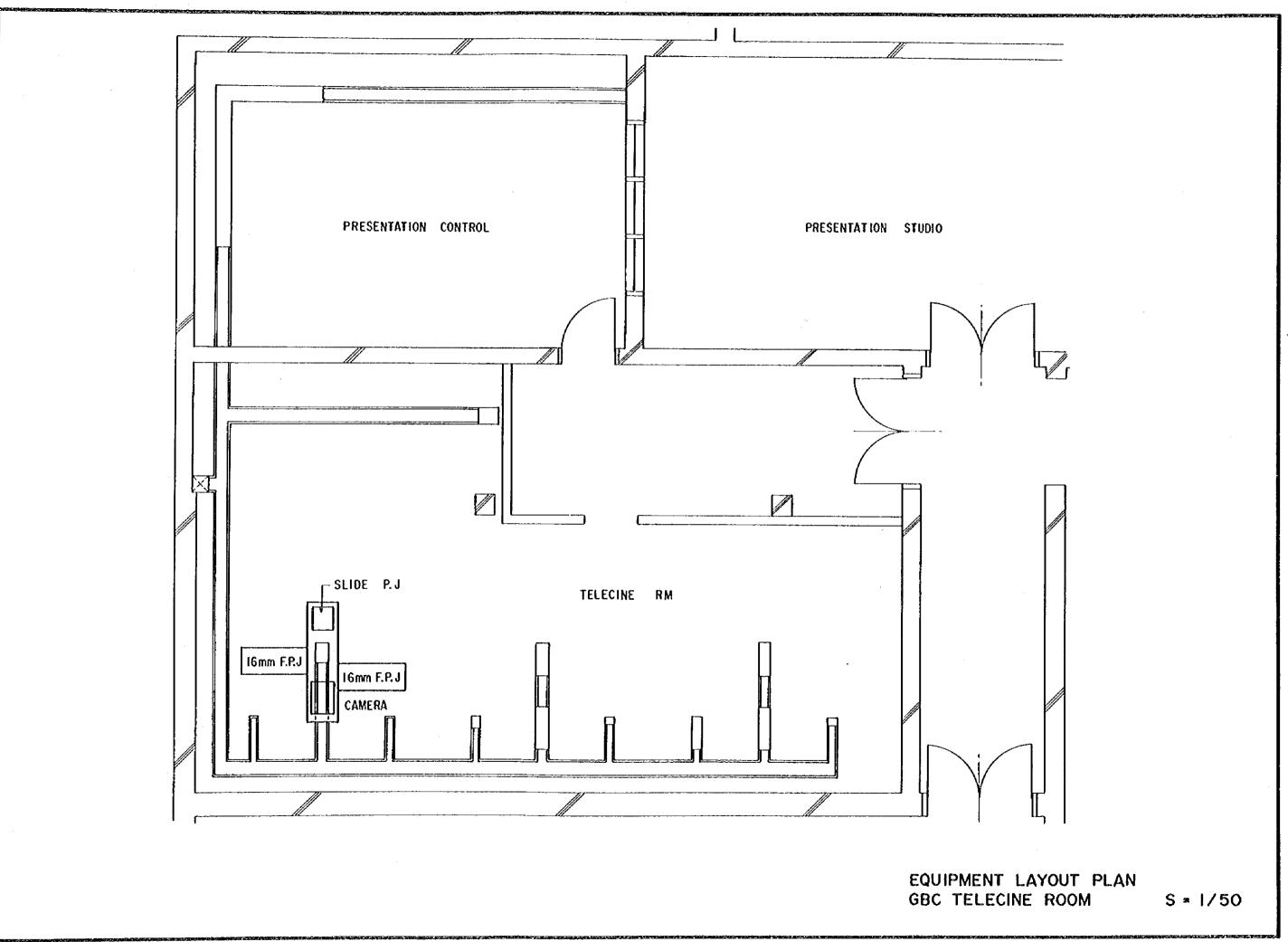






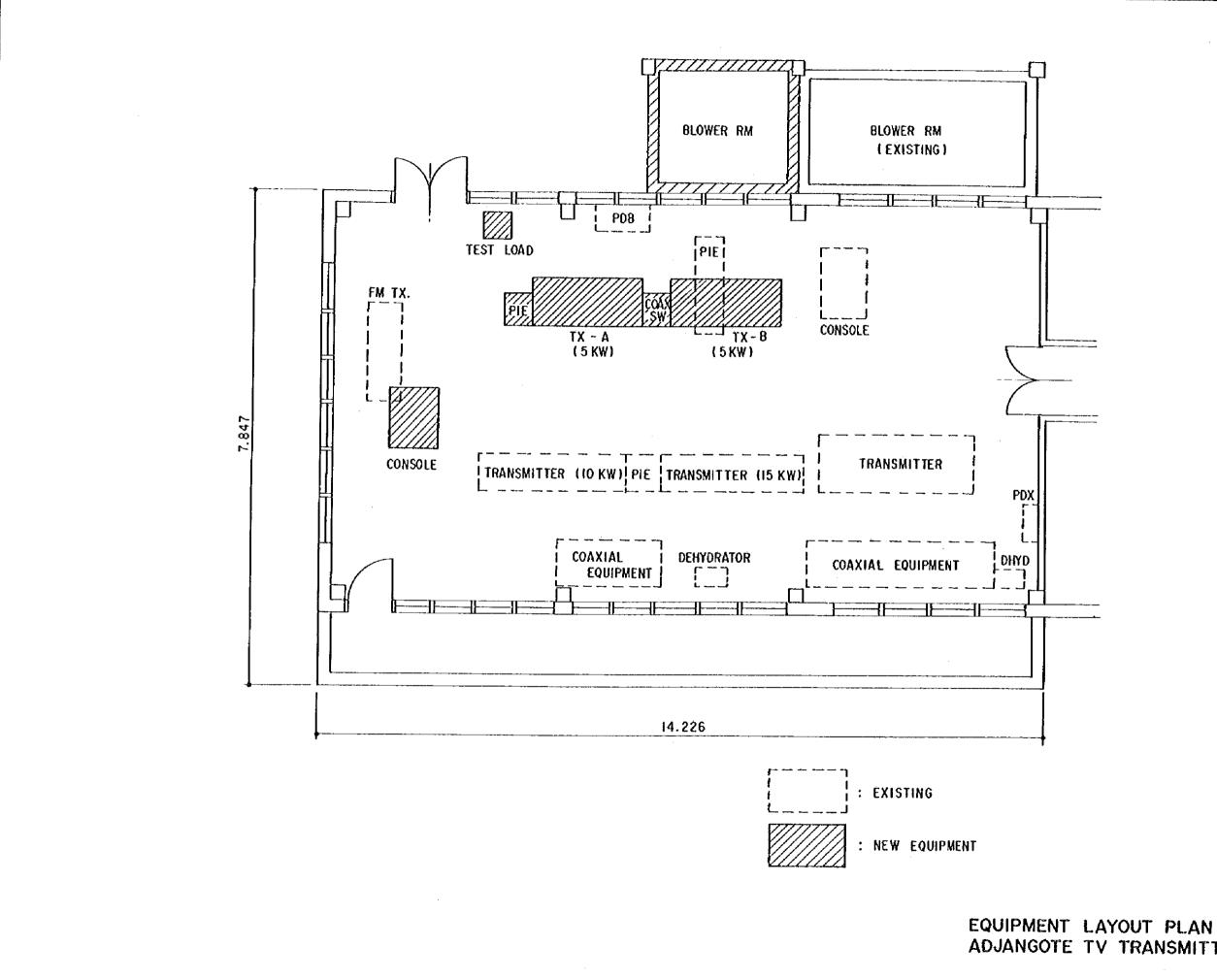


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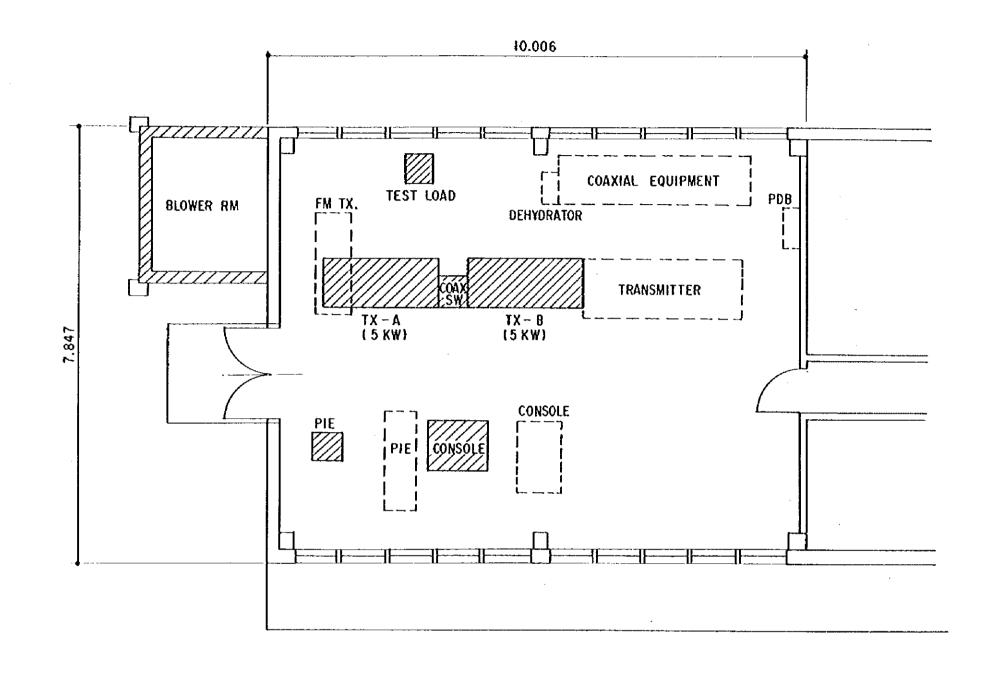


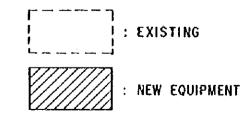
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ADJANGOTE TV TRANSMITTING STATION

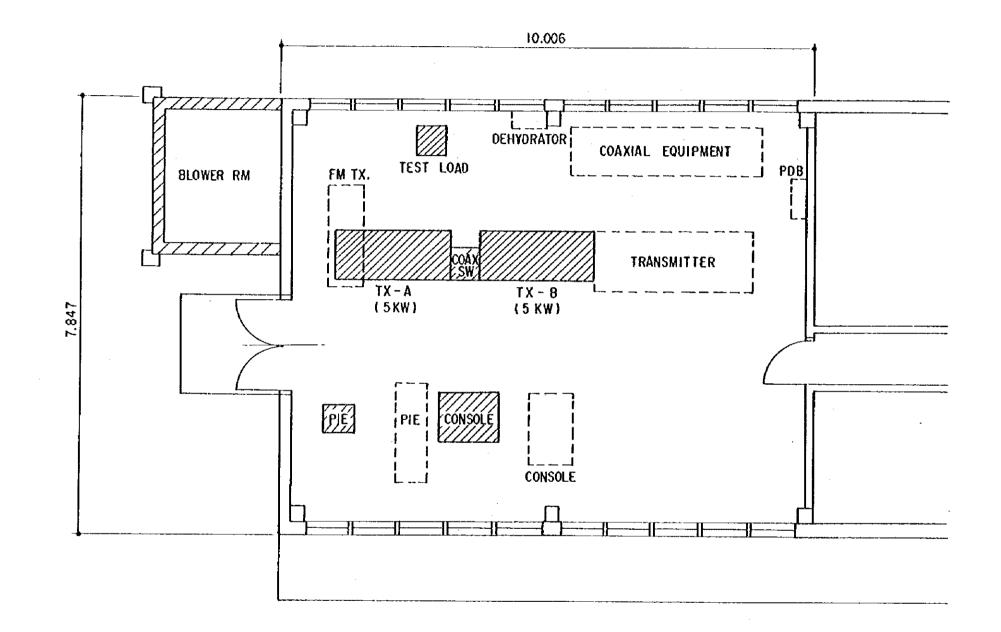


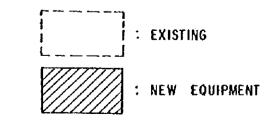


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EQUIPMENT LAYOUT PLAN KISSI TV TRANSMITTING STATION

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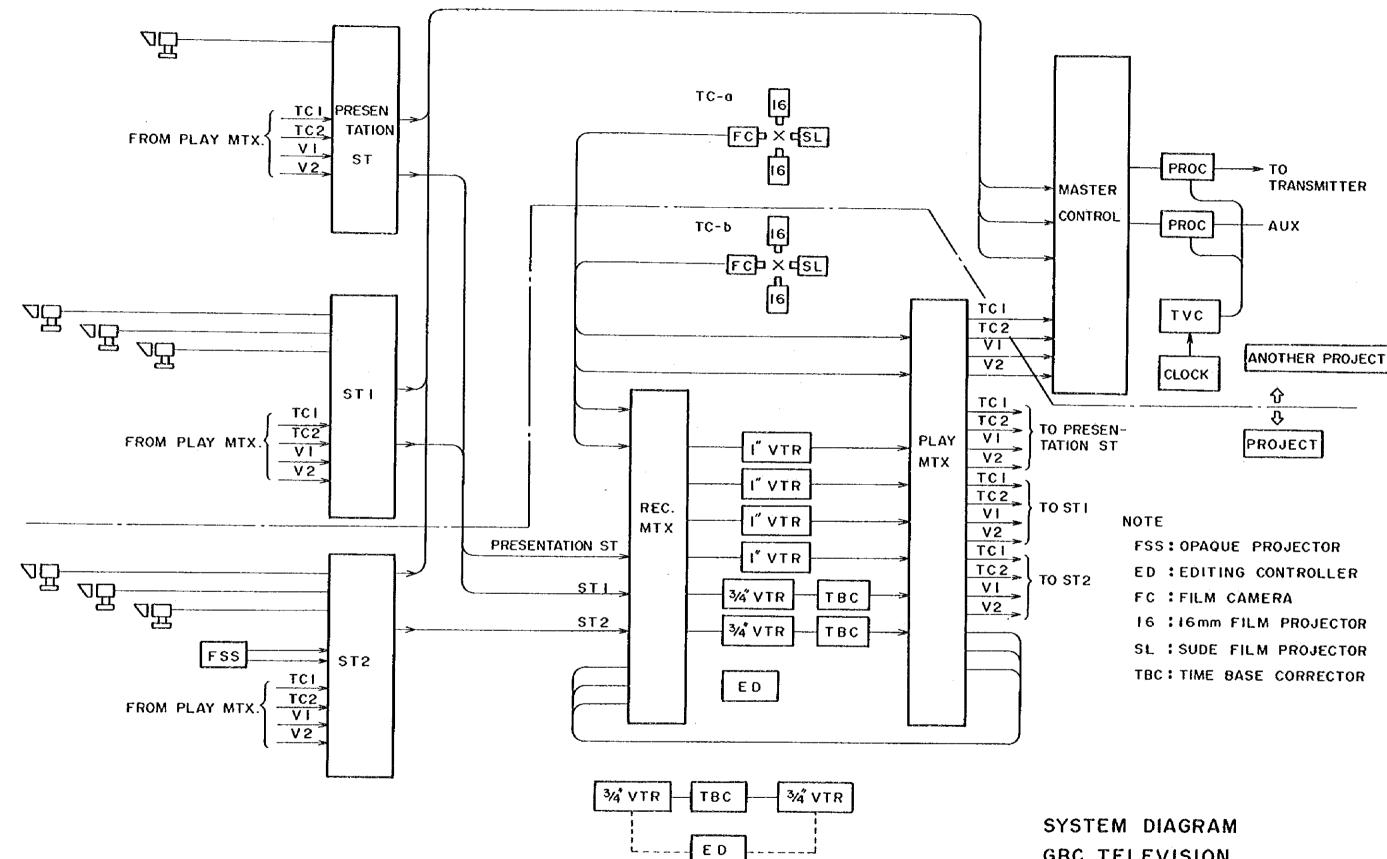


EQUIPMENT LAYOUT PLAN

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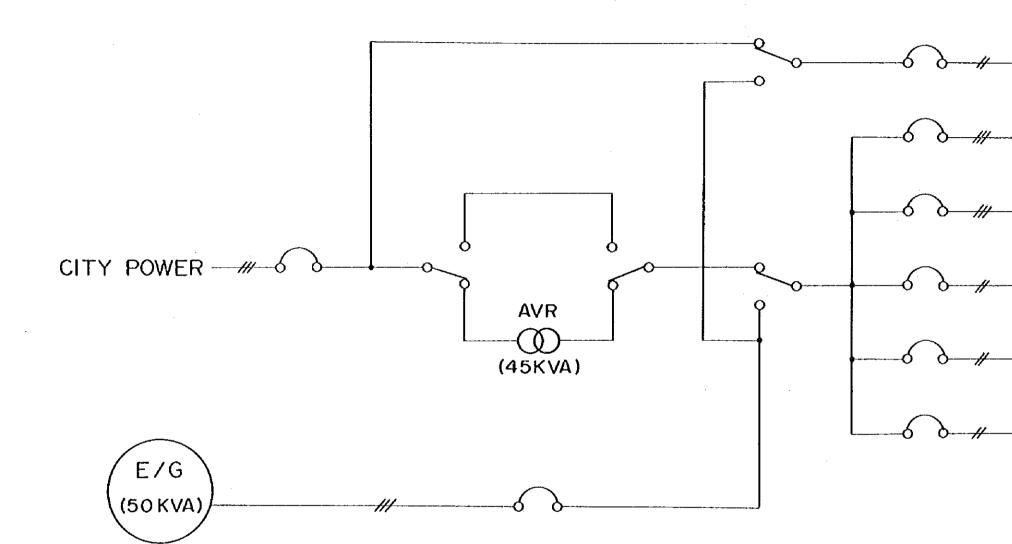
JAMASI TV TRANSMITTING STATION

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FSS: OPAQUE PROJECTOR
ED : EDITING CONTROLLER
FC : FILM CAMERA
16 :16mm FILM PROJECTOR
SL : SUDE FILM PROJECTOR
TBC: TIME BASE CORRECTOR

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GBC TELEVISION
STUDIO NO. 2
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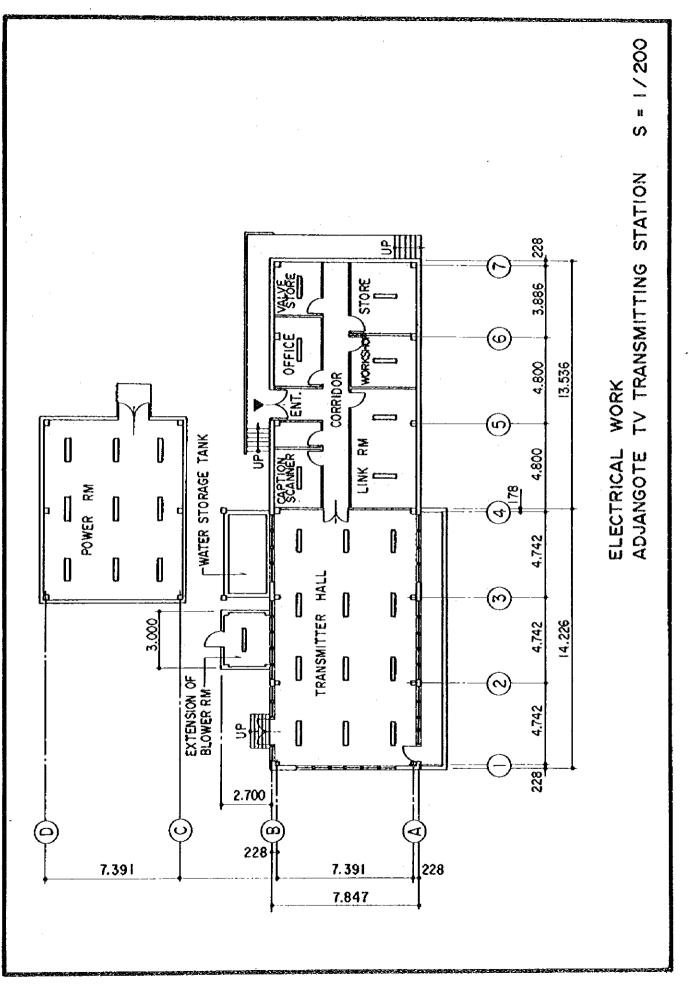
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POWER SUPPLY SYSTEM DIAGRAM ADJANGOTE KISSI, JAMASI, TX STATION

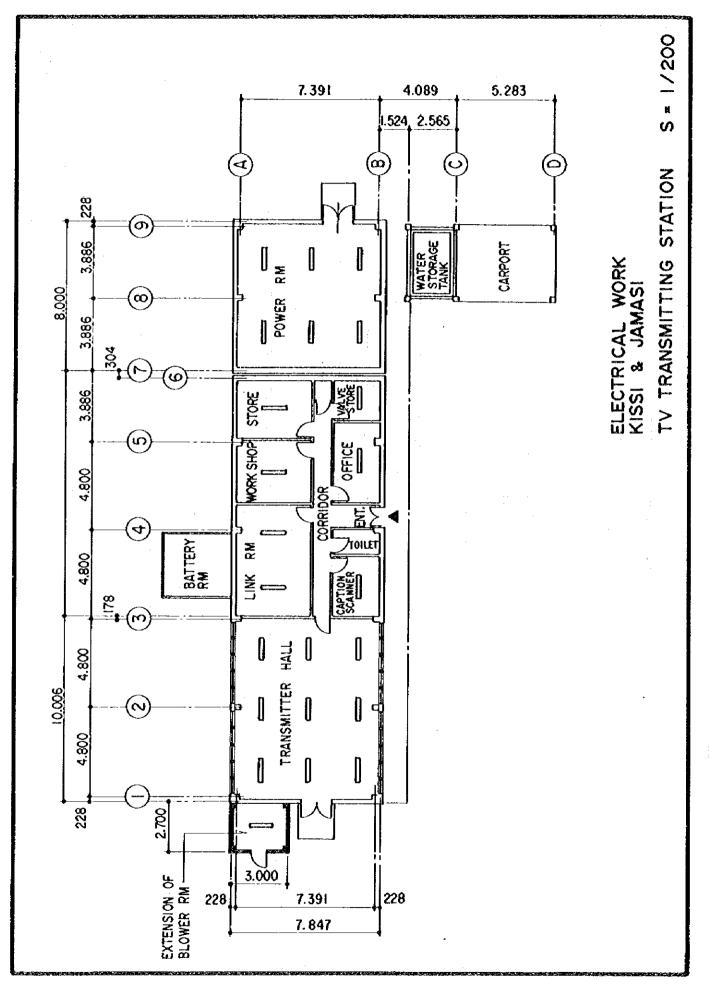
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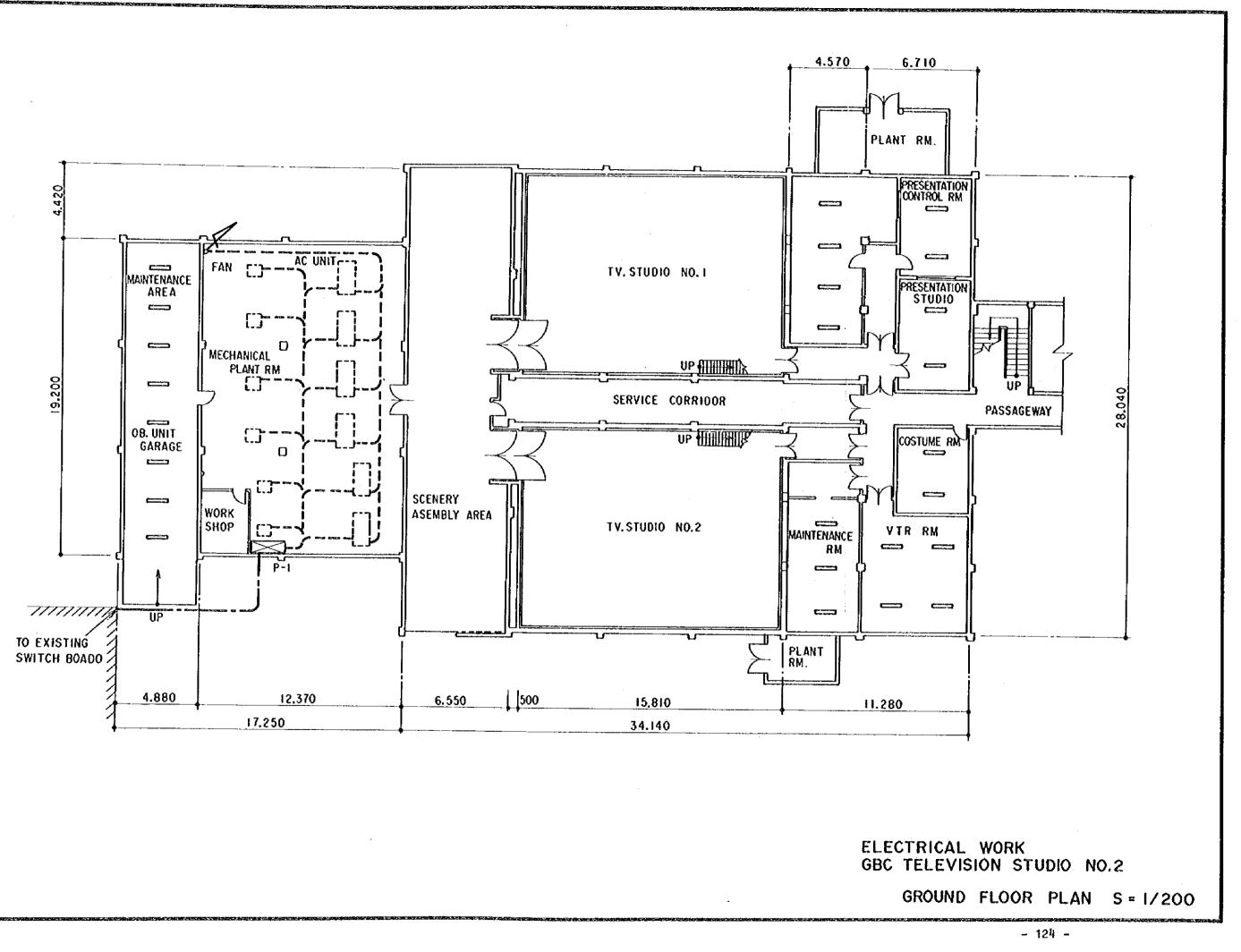


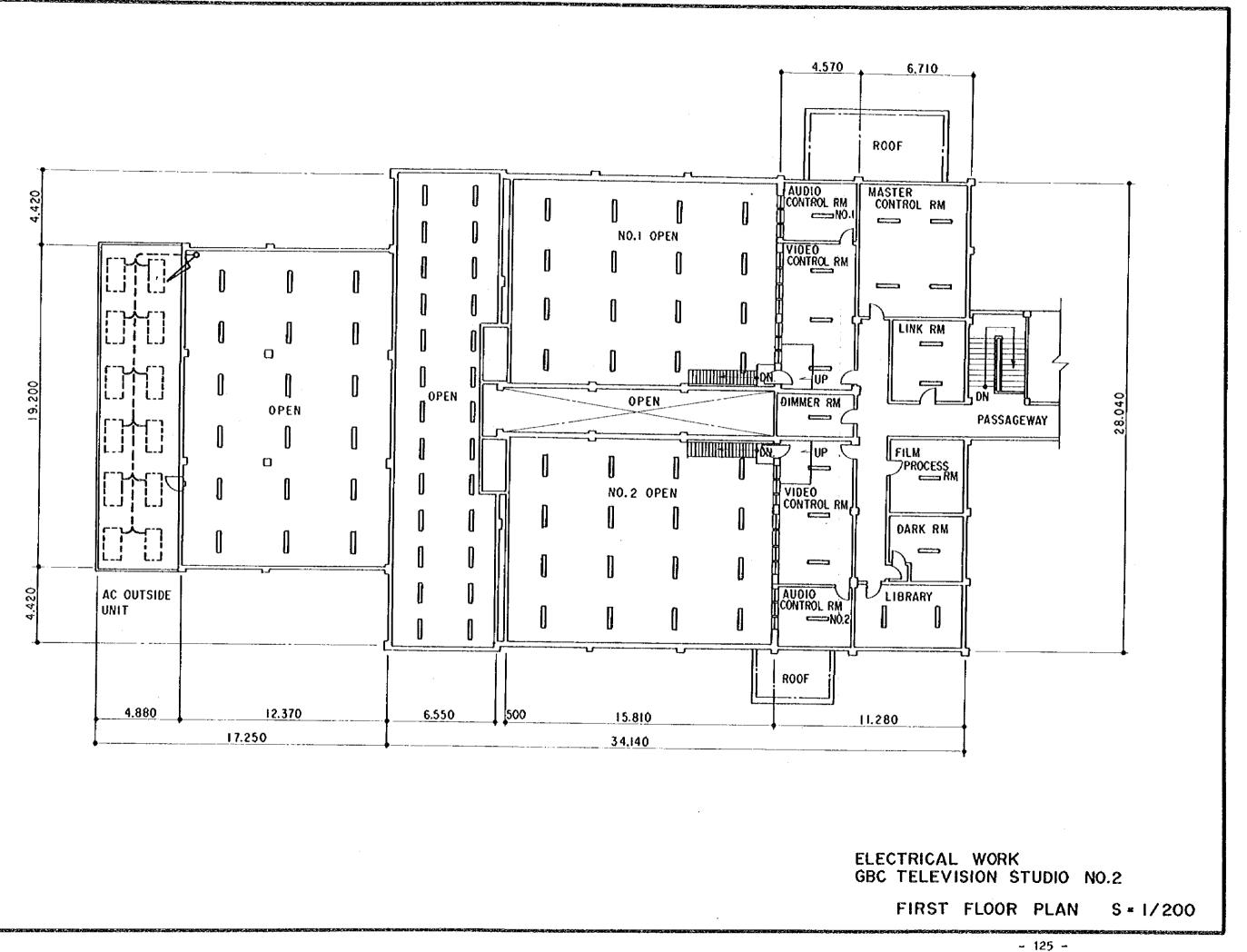
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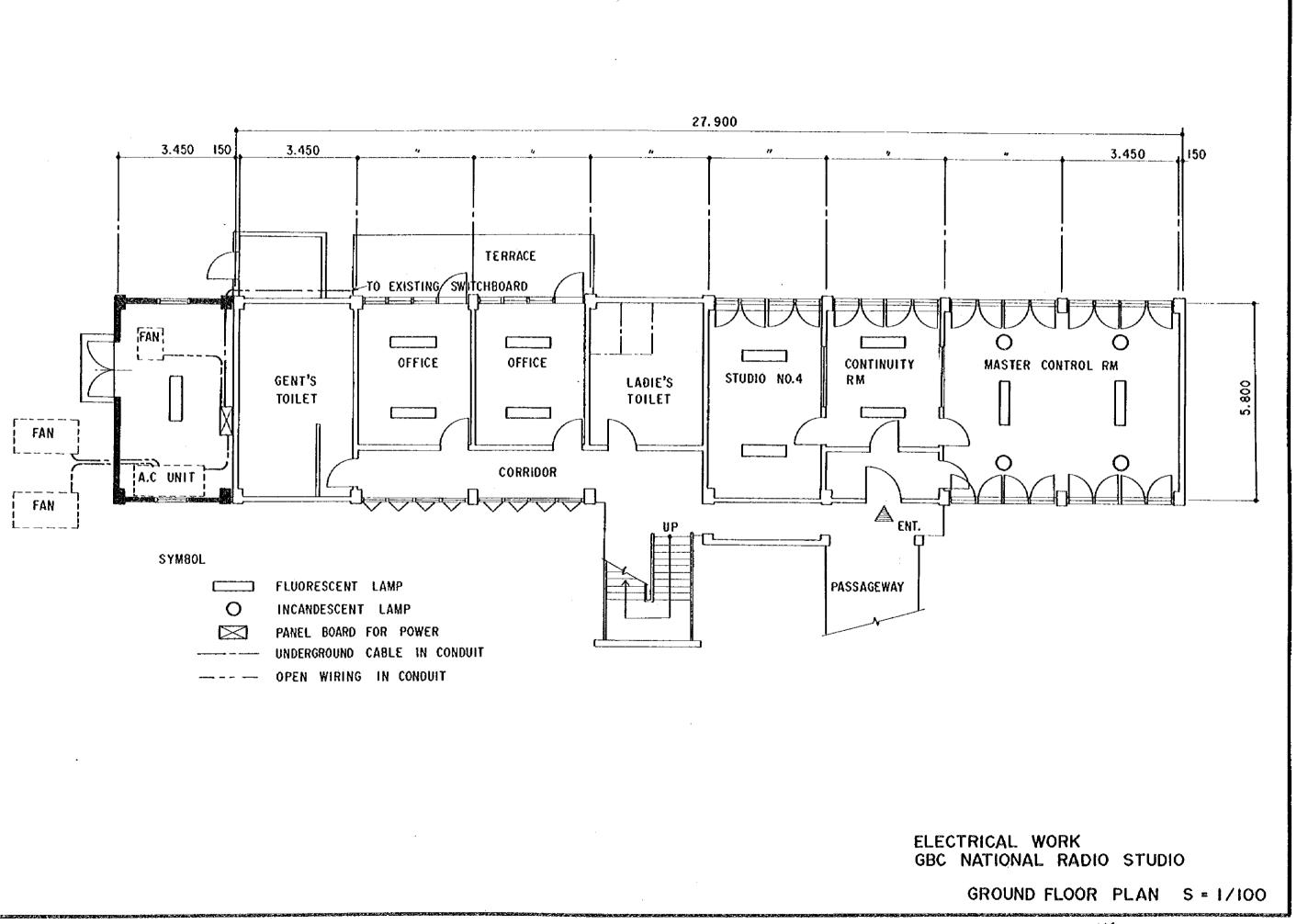


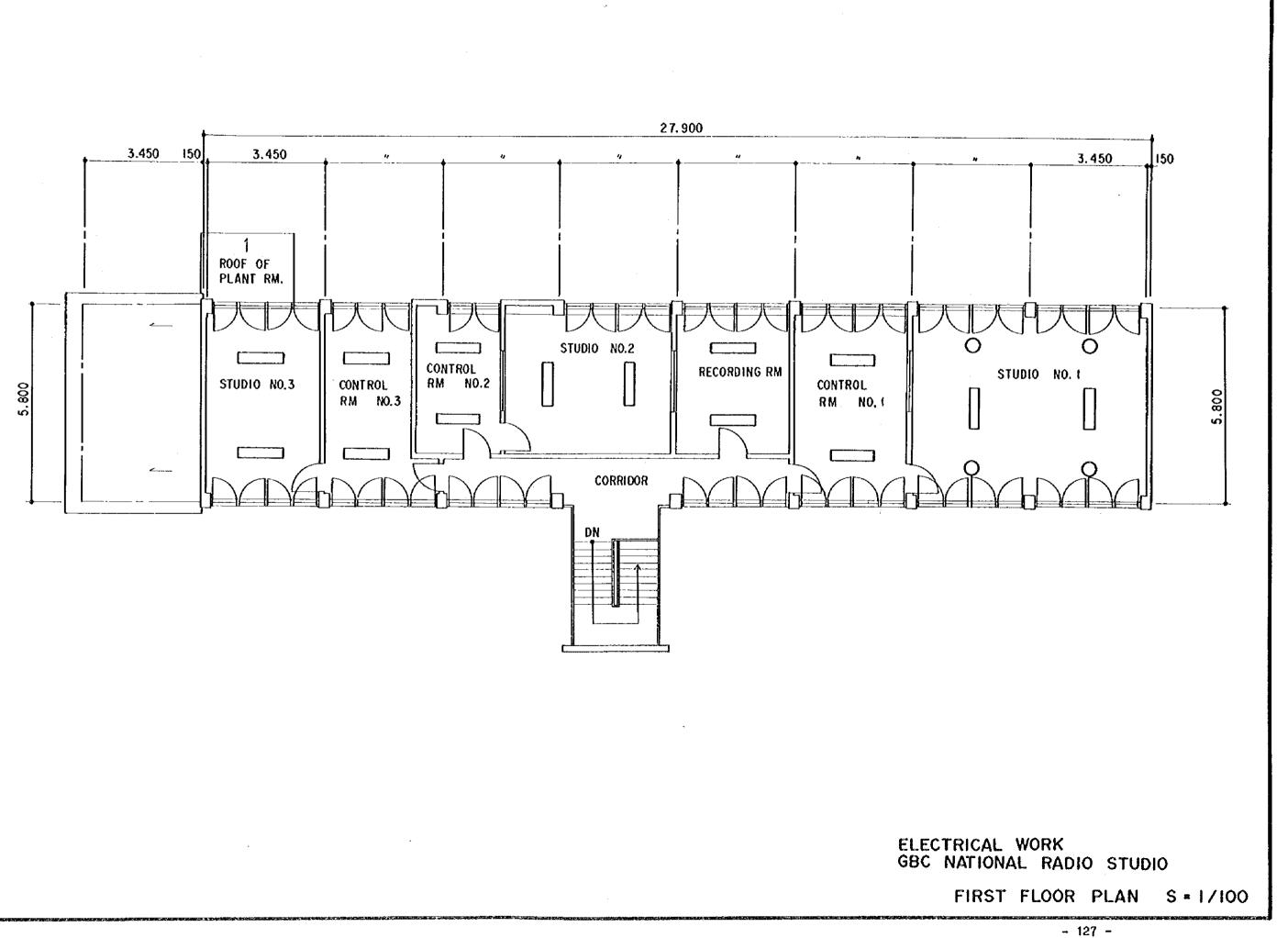
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