THE PEOPLE'S REPUBLIC OF BANGLADESH

DETAILS DESIGN REPORT

ON

THE TELEVISION STUDIO CONSTRUCTION PROJECT



MARCH 1978

JAPAN INTERNATIONAL COOPERATION AGENCY

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VOLUME II



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JAPAN INTERNATIONAL COOPERATION AGENCY

	国際協力事	業団
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1. <u>GENERAL</u>

1.1 Scope of application

The specification of TV Broadcasting facilities covers the program production facilities, stage and lighting facilities, manufacture of the public addressing system, factory adjustment for the equipments involved, work of the installation at the site, wiring work and other related works incidental to the construction of the Auditorium scheduled for BTV.

요즘 이 같은 것을 수 있었다.

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1.2 Scope of work

이는 물건이 많이 많이 있는 것은 것을 했다.

- 1) Design and manufacture of the TV broadcasting equipment and related devices.
- 2) Overall adjustment and factory test.

- 3) Delivery, installation, wiring and so forth at the site.
- 4) Reassembly work and overall adjustment at the site affter installation.
- 5) Miscellaneous works incidental to the Auditorium construction.

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1.3 Construction site

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BTV, Rampura, Dacca, Bangladesh.

2. <u>CONSTITUTION</u>

2.1 Facilities

2.1.1 Program production facilities

Facilities	Q'ty Item
1. Monochrome camera chain	4 sets 1 inch 1P
2. Color camera chain	1 set 1 inch 3P
3. Color telecine chain	1 set with 3V camera
4. Opaque camera chain	1 set with 1V camera
5. Video mixing & processing system	l set
6. Video monitoring system	1 set
7. Audio mixing chain	1 set

2.1.2 Stage and lighting facilities

. Facilities	Q'ty	Item
 Curtains Batten system for flying sets 	l set	
 Batten system for lighting equipments Lighting equipments 	l set l set	
5. Light control system	l set	
6. Special effect machines	1 set	

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2.1.3 Public addressing facilities and others

	Facilities	Q'ty	Item
1.	Audio mixing facilities for public address	1 set	
2.	Speakers	1 set	
3.	Intercom system	1 set	
4.	Interphone system	1 set	
5.	Monitor TV camera system	2 sets	
6.	Information facilities for audience	1 set	
7.	35mm projector system	1 set	with 2 projectors

2.2 Equipments and accessories list per each facility 2.2.1 Monochrome camera chain

1) Specification of main points

(1)	Scanning standard	CCIR 625 lines, 50 fields per sec.
(2)	Power source	AC 220V
(3)	Pick up tube	1 inch 1 plumbicon tube
(4)	Input impedance	75Ω or high impedance
(5)	Input signals	
112-5-5%	HD	4V (P-P) negative polarity
	٧D	4V (P-P) negative polarity
	BL	4V (P-P) negative polarity
	SYNC	4V (P-P) negative polarity
(6)	Video output	3 outputs
(7)	Output level	Composite: 1.0V (P-P) Video: 0.7V (P-P)
(8)	Resolution	
	Horizontal	More than 600TV lines (center) More than 400TV lines (corner)
	Vertical	More than 350TV lines
(9)	Deflection distortion	Less than 2%
(10)	Frequency response	Within ±0.5 dB (to 4MHz)
		Within +0.5 a dB (at 6MHz)
		-2.0 dB (at offiz) Roll-off characteristics above 8MHz without aperture correction.
(11)	Wave form distortion	Sag: less than 2% at 6Hz, 250KHz
		Rise time: less than 0.1µs at 15KHz,250KHz
		Overshoot: less than 15% at 15KHz, 250KHz
(12)	SN ratio	Below -50dB (Hum noise)
		Below -49dB (random noise)
(13)	Other characteristics	i) with Gamma correction
an a		ii) with aperture correction
		iii) with scanning protection

3

Equipment	Q'ty	Remarks
(1) Camera head	4	To include view finder, ND filter
(2) CCU(3) Camera mount & tripod	4 2	With remote control panel
(4) Camera mount & dolly(5) Zoom lens	2 4	16mm ∿ 160mm F1.6
(6) Camera cable	6	$25m \times 2$ $50m \times 2$ The same connector and $50m \times 2$
		100m x 2 cable as color system

2) Equipments list of monochrome camera chains

3) Accessories and spare parts

网络马马马马 Parts Q'ty Remarks (1) Dust cover 4 (1)Teres ((2) Head set 6 (3) Interconnection cable 4 《注意情题》:《《《》 (4) VF hood 4 9 - ¹ - 1 - 1 - 1 (5) Front plate for camera 4 head (6) Script holder & light 4 18. je 14 (7) Unit extender 4 224944332 والمعر المراجع والمراجع (8) Lamps & fuse & tubes 300% /set 4 sets (9) Spare camera connector 2 pairs (10) Lens case 2.0000000 1.00 (11) Resolution test chart 4 (12) Linearity test chart 4 (13) Log gray scale test 4 243.50 chart $\langle T_{i} \langle \cdot \rangle \rangle$ (14) Spare unit 1/type 1 set (15) Spare semi conductor 1 set 2/type (except one on the all and the should be units or cards.)

(1)(4)之后,1344年,月末年月月月月月,於三月至今日月月

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The development where the development with 2.2.2 Color camera chain 2013年1月1日第二 1) Specification of main points (1)Color standard PAL 网络古马马马拉勒马马马马马 Scanning standard (2) CCIR 625 lines 50 fields/sec (3) Power source AC 220V (4) Pick up tube 1 inch 3 plumbicon tubes (5) Input impedance 75 Ω or high impedance Input signals (6) SYNC 4V (P-P) negative polarity SC 2V (P-P) positive polarity PAL signal 4V (P-P) positive polarity Encoded video signals VS 1.0Vp-p x 3 (7) Output signals (75Ω)∋ Chroma key R.G.B video out 0.7Vp-p <u>(75Ω)</u> (8) Sensitivity More than 49dB at Y channel at 5.5MHz (9) Scanning geometry accuracy Zone 1: ±0.5% of picture height Zone 2: ±1.0% of picture height Zone 3: ±1.0% of picture height (10) Registration accuracy Zone 1: 0.05% of picture height Zone 2: 0.20% of picture height Zone 3: 0.40% of picture height Zone 1: within a circle of 0.8 picture height Zone 2: within a circle of picture width Zone 3: remainder (11) Gain control ±6dB (12) Image sharpner Frequency boost, more than 12dB at 5MHz S/N better than 56dB (13) Other characteristics i) To include Gamma correction 11) To include bias light

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Equipment	Q'ty	Remarks
(1) Camera head	1	With view finder & bias light
(2) Camera control rack	1	Including 10" picture monitor and waveform monitor, image sharpner
		unit, color encoder unit, control
		panel and power supply.
(3) Zoom lens	1	16 ∿ 160mm F1.6
		including pattern projector with
		test chart
(4) Camera cable	2	50m x 2

200,35

ŝ

2) Equipments list of color camera chain

3) Accessoires and spare parts

Parts	Q'ty	Remarks
(1) Dust cover	1	
(2) Unit extenders	l set	ing di kabupatèn kabupatèn di kabupatèn kabupatèn di kabupatèn di kabupatèn di kabupatèn di kabupatèn di kabup Kabupatèn kabupatèn kabupatèn di k
(3) Special tools	l set	
(4) Control cable	1 set	
(5) Head set	1	
(6) External signal control box	1	
(7) Script light & holder	1 set	
(8) Fuses & lamps & tubes	1 set	300%
(9) Lens case	1	
(10) Spare unit	1 set	1/type
(11) Spare semiconductor	1 set	2/type (except one on the
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2.2.3 Color telecine chain

1) Specification of main points

(1)	Standard	625 :	lines 50 fi	elds/sec. PA	L system
(2)	Power source	AC 2:	20V		
(3)	Pick up tube	1 in	ch 3 vidic	on	
(4)	Input signals				
	Composite SYNC	2∿4₹	(P-P) nega	tive polarit	y for camera

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<u> 1995년</u> 1995년

Composite SYNC Subcarrier Video outputs (R.G.B) Burst gate signal Blanking signal PAL line switching pulse

(5) Input impedance
 Sub carrier
 Other signals

(6) Output signals

(7) Output impedance(8) Frequency response

(9) Waveform distortion

(Y channel) Rise time Overshoot

(10) Resolution

Sag

(11) SN ratio

(Y channel) Hum noise Synchronous noise Random noise

(12) Other characteristics of the camera

```
2~4V (P-P) negative polarity for monitor

1V (P-P) negative polarity

0.7V (P-P) for CCU

2-4V (P-P) negative polarity

2-4V (P-P) negative polarity

1V (P-P)
```

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75 Ω
75 Ω or high impedance
R.G.B signals 0.7V (P-P) from camera
VBS 1V (P-P): 6 outputs from encoder
75 Ω
1KHzv6MHz ±0.5dB 100KHz: standard
```

Shorter than 0.1 µsec Less than 15% Less than 2% More than 650 TV lines at center More than 550 TV lines at corner

More than 50dB (P-P/P-P) More than 30dB (P-P/P-P) More than 48dB (P-P/P-P) (The Random noise is measured with the pick up tube signal output, video output level, and band width set to 0.3µA (P-P), 0.7V (P-P), and 4.5 to 5.5MHz respectively)

- i) To include aperture correction
- ii) To include Gamma correction
- iii) To include shading correction
- iv) To include automatic level control such as AWL, ABL, ALC

(13) Projector film speed	25 frame per sec in both foward and
	reverse operation
(14) Film loading capacity	4000 feet maximum
(15) Picture deviation	에 있는 것이 가지 않는 것을 많은 것이 같은 것이라는 것은 것이라는 것이 있는 것이다. 같은 것은 것은 것은 것은 것이 같은 것이 같은 것은 것이다. 같은 것이 같은 것이 같이 있는 것이다.
Vertical	Less than 0.1% for width of picture
Horizontal	Less than 0.1% for width of picture
(16) Noise	Less than 75 phons at 1m from the
	projector
(17) Magnetic sound frequency characteristic	40Hz∿10,000Hz ±2dB 1000Hz standard
(18) Optical sound frequency characteristic	$50 \sim 7000$ Hz $^{+1}_{-2}$ dB 1000 Hz standard ,,
(19) Sound output level	+4dB
(20) Wow and flutter	Less than 0.3%
(21) Slide size	28mm × 21mm
(22) Slide capacity	, and a standard sta 1932 - Standard Standa
(23) Slide change	Alternate, skip change
(24) Multiplexer	이 같다. 법법 사람이 다 가슴을 받았는 것이 있는 것이 있는 것이 있는 것이 가지 않았다. 가지 않았다. 가지 않는 것이 있는 것이 있다. 같은 것이 같은 것이 같은 것이 같은 것이 하는 것이 같이 있는 것이 있는 것이 있는 것이 같이 있다. 것이 같은 것이 같은 것이 같이 있는 것이 없다.
input/output	3/1

Equipment	Q'ty	Remarks
(1) 3V color TV camera	1	
(2) Color encoder	1.1	To include remote control boad
(3) Picture monitor	1	12 inch
(4) Waveform monitor		
(5) Pick-up tube	3	1 inch vidicon
(6) 16mm projector	2	
(7) Slide projector		
(8) Optical multiplexer	1.000	Including pedestal
(9) Vector scope	1	

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3) Accessories and spare parts	
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	3) Accessories an	1d spare pa	arts
	Parts	Q'ty	Remarks
(1)	Standard accessories	1 set	
(2)	Pick-up tube, fuse & lamp	l set	300%
(3)	16mm TV color reference	1	SMPTE TV 16CR
(4)	16mm alignment and resolution	1	SMPTE TV 16AR
(5)	16mm deflection linearity	1	SMPTE TV 16DL
(6)	16mm gray scales	1	전에는 성상 관광 관계가 가지 않는 것이다. 가장
(7)	16mm registration	1	
(8)	16mm magnetic sound multifrequency	1	SMPTE M 16MF
(9)	16mm photographic sound multifrequency	1	SMPTE P 16MF
(10)	2" x 2" TV color slide	1	
(11)	2" x 2" slide alignment and resolution	1	
(12)	2" x 2" gray scale	1	
(13)	2" x 2" registration	1	1997년 - 1997년 - 1997년 1997년 1997년 1997년 1997년 1997년 1997년 1997년 1997년 - 1997년 - 1997년 1997년 1997년 - 1997년 - 1997년
(14)	Spare unit	l set	1/type
(15)	Spare semiconductor	1 set	(except one on the units or
			cards)

(1) Scanning standard	625 TV lines: 50 fields/sec
(2) Power source	AC 220V
(3) Operation	Local and remote
(4) Input signals	
HD	4V (P-P) negative polarity
VD	4V (P-P) negative polarity
BL	4V (P-P) negative polarity
SYNC	4V (P-P) negative polarity
(5) Input impedance	75Ω or high impedance
(6) Output signals	1.0V (P-P) composite x 3
(7) Output impedance	75Ω

Horizontal	More than 600 TV lines at center
	More than 400 TV lines at corner
Vertical	More than 350 TV lines
(9) Deflection distortion	i) Within the circle having a diameter
	equivalent to the height of the
	picture less than 1%
	ii) Remainder less than 2%
(10) Frequency response	Within ±0.5dB (at 5MHz)
	Within $\pm 2.0^{0.5}$ (at 6MHz)
(11) SN ratio	
Hum noise	Below -55dB (P-P)
Random noise	Below -46dB (rms)
(12) Opaque card size	125mm x 100mm

	Equipment	Q'ty	Remarks
(1)	lV TV camera	1	
(2)	Opaque projector	1	
	Picture monitor Remote control panel	1	9 inch monochrome

	Parts	Q'ty	Remarks
(1)	Standard accessory	l set	
(2)	Pick-up tube, fuses, lamps	l set	300%
(3)	Opaque auto changer	1	
(4)	Opaque scroll unit	1	
(5)	Opaque roll unit	1	
(6)	Opaque card holder	100	
(7)	Spare unit	l set	1/type
(8)	Spare semiconductor	l set	2/type (except one on the units or cards)

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Equipment	Reference	Q'ty	Remarks
(1) Video mixing console	DRG NO 2-1 DRG NO 2-2	1	
(2) Video engineering console	DRG NO 2-3		
(3) Video distribution amplifier	DRG NO 2-4	1 set	To include rack, mounting shelf,
(4) Video switcher	DRG NO 2-4		rectifier, regulator,
(5) Line & monitor switcher	DRG NO 2-4		jack panel, fuse panel
(6) Mixer amplifier	DRG NO 2-4	l set	
(7) Mixer keyer amplifier	DRG NO 2-4	1 set	
(8) Special effect wave- form generator	DRG NO 2-4	1 set	Total 31 patterns
(9) Video delay line			
(10) Pulse distribution amplifier	DRG NO 2-5	l set	To include rack, mount-
(11) Process amplifier	DRG NO 2-5	l set	ing shelf, rectifier,
(12) TV SYNC generator	DRG NO 2-5	2 sets	
(13) SYNC selector	DRG NO 2-5	1 set	fuse panel
(14) Pulse delay line	DRG NO 2-5	1 set	
(15) Burst killer unit	DRG NO 2-5	1 set	
(16) Chroma-key unut	DRG NO 2-5	1 set	
(17) Camera cable patching board	DRG NO 2-6 DRG NO 2-74	1	To include camera cable and connector
(18) Floor keeper		1 set	

2.2.5 Video mixing & processing system1) Equipments list of video mixing & processing system

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2) Accessories and spare parts

	Parts	Reference	Q'ty	Remarks
(1)	Unit extender		1 set	1/type
(2)	Video patching cord		20	
(3)	Dual oscilloscope		1	DC~40MHz
(4)	Circuit tester		1	Max. range 12kv
(5)	Mounting frame with power supply		1	to be included below (6) - (12)
(6)	Greating generator		1	
(7)	Square wave generator		1	
(8)	Sweep generator		1	
(9)	Stair step generator		• 1	
(10)	Multi burst generator		1	
(11)	Sin ² , pulse and bar generator		1	
(12)	Color bar generator		1	
(13)	Hand tool set with case		3	
(14)	Spare unit		1	l/type
(15)	Fuses & lamps		1 set	300%
(16)	Semiconductor		l set	2/type (except one on
				the units and cards)
(17)	Chair		5	For VE x 2
				{ TD, PD x 2
				Spare x 1

1999年1月1日(1997年1月1日)

2.2.6 Video monitoring system

1) Equipments list of video monitor system

Equipment	Reference	Q'ty	Remarks
(1) 20 inch color picture monitor	DRG NO 2-6	2	For LM & LD
<pre>(2) 20 inch B/W picture monitor</pre>	DRG NO 2-6	13	
<pre>(3) 12 inch B/W picture monitor</pre>	DRG NO 2-6	13	
(4) Stand with casters for picture monitor		14	For 20 inch monitor
(5) Monitor cart		2	
(6) Monitor shelf (7) Monitor cart for LD	DRG NO 2-6	1 set 1	Supplied by BTV

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2) Accessories and spare parts

Parts	Q'ty	Remarks
(1) Fuses & lamps	l set l set	300%
(2) Spare Braun tube(3) Other standard ac-	l set	т, суре
cessories		

2.2.7 Audio mixing chain

1) Equipments list of audio mixing chanin

Equipment	Reference Q'ty	Remarks
(1) Audio mixing cons	ole DRG NO 2-7 1	
	DRG NO 2-51	
(2) Variable directio ribbon microphone		
(3) Condensor microph	one 5	With AC power supply x 3
(4) Dynamic microphon	le 10	
(5) Gun microphone		
(6) Wireless micropho	one DRG NO 2-8 6	3 frequency 2 type
(7) Antenna & stand f wireless system	or DRG NO 2-8 1 set	i la la constant de la constant (41 La constant de la cons
(8) Wireless receiver	DRG NO 2-9 2 set	8
(9) Microphone stand	(H) 5	
10) Microphone stand	(M) 5	
(10) Microphone stand	(M) 5 13	

(11)	Microphone stand (DESK TYPE)		5	
(12)	Microphone boom stand		2	
(13)	Head phone		6	
(14)	Suspension microphone	DRG NO 2-1	0 2 sets	
	system	DRG NO 2-1	.1	
		DRG NO 2-1	.2	
		DRG NO 2-1	.3	
(15)	Elevater microphone	DRG NO 2-1	4	
	system	DRG NO 2-1	.5	
		DRG NO 2-3	39	
(16)	Microphone cable		1 set	20m x 10 with 10m x 10 cable drum
(17)	Microphone patching board	DRG NO 2-1	l6 1 set	With rack, pad trans- former etc.
(18)	.Tape recorder/repro- ducer		2	Full track 19/38cm/sec remote control. D.D motor
(19)	Disk reproducer		2	33, 45, 78 rpm D.D motor
(20)	Echo machine		1	
(21)	Monitor speaker	DRG NO 2-1	13	To include 10W amplif
(22)	Audio line amplifier		1 set	To include rack
	2) Accessories	and spare p	arts	
	Parts	Reference	Q'ty	Remarks
(1)	Working tools		1 set	
`	···	 		

Parts	Reference	Q'ty	Remarks
(1) Working tools		l set	
(2) Unit extender		lset	l/type
(3) Spare unit		1 set	1/type
(4) Fuses & lamps		1 set	300%
(5) Semiconductor		1 set	2/type without unit's semiconductor
(6) Chair		2	Mixer x 1 tape, etc x 1
(7) Audio patching cord		40	50cm
(8) Audio terminate plug		10	
그는 동안 가장 등을 가장이 관심되었다. - 1999년 - 1997년 - 1997년 - 1997년 - 1997년			
	14		

(9) Multifrequency tape		6	BTS5313 T-19 x 3 T-38 x 3
10) Multifrequency DISK		5	JVC 2001
2.2.8 Curtains			
1) Equipments 1	ist about curta	ains	
Equipment	Reference	Q'ty	Remarks
(1) Trimming curtain	DRG NO 2-18 DRG NO 2-19 DRG NO 2-20 DRG NO 2-21 DRG NO 2-22	1 set	Including curtain material & curtain rail (Manual operation)
(2) Draw curtain	DRG NO 2-23	1 set	Including curtain material, motor winch, wire, pulley etc (Motorize operation)
(3) Drop curtain	DRG NO 2-24	l set	The same as the above
(4) Contour curtain	DRG NO 2-24	l set	The same as the above
(5) Border curtain	DRG NO 2-18 DRG NO 2-19 DRG NO 2-20 DRG NO 2-21 DRG NO 2-22		Including curtain material & curtain rail (Manual operation)
(6) Back curtaín	DRG NO 2-18 DRG NO 2-19 DRG NO 2-20 DRG NO 2-21 DRG NO 2-22	l set	Including curtain material & curtain rail (Manual operation)
(7) Side curtain	DRG NO 2-18 DRG NO 2-19 DRG NO 2-20 DRG NO 2-21 DRG NO 2-22	4 sets	The same as the above
(8) Cyclorama		1 set	Manual operation with curtain material
(9) Standard accessories		l set	To include counter weight MAG. SW, etc.
2.2.9 Batten system fo	r flying sets		
Equipment	Reference	Q'ty	Remarks
(1) Pipe batten	DRG NO 2-18 DRG NO 2-19 DRG NO 2-20 DRG NO 2-21 DRG NO 2-22	7 sets	Manual operation
(2) Standard accessories and spare parts		l set	
(3) Photocell illuminator		2	

2.2.10	Lighting batten	system	

Equipment	Reference	Q'ty	Remarks
(1) Batten for spot lights	DRG NO 2-25	8 sets	
	DRG NO 2-26		
	DRG NO 2-27		
	DRG NO 2-28		
(2) Batten for flood lights	DRG NO 2-25	6 sets	
	DRG NO 2-26		
	DRG NO 2-27		
	DRG NO 2-29		
(3) Batten for upper horizontal lights	DRG NO 2-25	3 sets	
날 집에는 이야지 있는지 영화님께서는 방법을 하는 것이다.	DRG NO 2-26		
	DRG NO 2-27		
	DRG NO 2-30		
(4) Operating panel of motorized batten		1. 	
(5) Standard accessories and spare parts		1 set	MAG, SW etc.
		가지 전문 111 문제 성영관 2011	

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(1) Foot lightDRG NO 2-317 sets12 lamps/set 60W(2) Border lightDRG NO 2-296 sets33 lamps/set 200W(3) Suspension spot lightB sets12 lamps/set 1KW Half with convex lens others with fresnel le(4) Tower spot lightS sets6 lamps/set Including 3 carts 1KW Half with convex lens Others with fresnel le(5) Ceiling spot lightI set18 lamps/set 1KW Half with convex lens Others with fresnel le(6) Front side spot lightI set6 lamps/set 1KW Half with convex lens Others with fresnel le(7) Upper horizontal lightI set6 lamps/set 800W(8) Low horizontal lightI set62 lamps/set 800W(9) Pin-spot lightI set2 sets(10) Spot light (for 1KW) (11) Spot light (for 500W)12(12) Strip light (long)46 Feet(13) Strip light (short)43 Feet	 (2) Border light (3) Suspension spot light (4) Tower spot light (5) Ceiling spot light (5) Ceiling spot light (6) DRG NO 2-29 (7) DRG NO 2-29 (8) Sets (8) Sets (8) Sets (1) Sets (2) Lamps/Set (3) Sets (4) Sets (5) Ceiling spot light (6) Lamps/Set (7) Lamps/Set (8) Sets (7) Sets (8) Sets (8) Sets (8) Sets (9) Sets (1) Sets (1) Sets (2) Sets (3) Lamps/Set (4) Sets (5) Ceiling spot light (6) Sets (7) Sets (7)W V c lens snel le ts lKW
 (3) Suspension spot light (4) Tower spot light (5) Ceiling spot light (6) Front side spot light (7) Upper horizontal light (8) Low horizontal light (9) Pin-spot light (10) Spot light (for 1KW) (11) Spot light (for 500W) (12) Strip light (long) (3) Sets (4) Tower spot light (5) Ceiling spot light (6) Front side spot light (7) Upper horizontal light (8) Low horizontal light (9) Pin-spot light (10) Spot light (for 1KW) (11) Spot light (long) (11) Spot light (long) (12) Strip light (long) 	 (3) Suspension spot light (4) Tower spot light (5) Ceiling spot light (5) Ceiling spot light (6) Support light (7) Support light (8) Sets (8) Sets (1) Sets (2) Support light (3) Sets (4) Sets (5) Support light (6) Sets (7) Sets (7) Sets (8) Sets (8) Sets (1) Sets (3) Sets (4) Sets (5) Sets (6) Sets (7) Sets (7) Sets (7) Sets (8) Sets (7) Sets (8) Sets (8) Sets (1) Sets (1) Sets (2) Sets (3) Sets (4) Sets (5) Sets (5) Sets (6) Sets (7) Sets 	N k lens snel le ss lKW
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(5) Ceiling spot light1 setIncluding 3 carts 1KW Half with convex lens Others with fresnel le(6) Front side spot light1 set18 lamps/set 1KW Half with convex lens Others with fresnel le(7) Upper horizontal light2 sets6 lamps/set 1KW Half with convex lens Others with fresnel le(7) Upper horizontal light1 set62 lamps/set 800W(8) Low horizontal light1 set62 lamps/set 800W(9) Pin-spot light2 setsWith X'non lamp(10) Spot light (for 1KW) (11) Spot light (for 500W)20 12Half with convex lens Others with fresnel le 6 Feet(12) Strip light (long)46 Feet	(5) Ceiling spot light (5) Ceiling spot light	ts 1KW
 (6) Front side spot light (6) Front side spot light (7) Upper horizontal light (7) Upper horizontal light (8) Low horizontal light (9) Pin-spot light (10) Spot light (for 1KW) (11) Spot light (for 500W) (12) Strip light (long) (10) Spot light (long) (11) Spot light (long) (12) Strip light (long) (13) Spot light (long) (14) Half with convex lens (15) Spot light (long) (16) Spot light (long) (17) Upper horizontal light (18) Low horizontal light (19) Spot light (long) (10) Spot light (long) (10) Spot light (long) (10) Spot light (long) (11) Spot light (long) (12) Strip light (long) 	Half with conver Others with free	
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<pre>(8) Low horizontal light (9) Pin-spot light (10) Spot light (for 1KW) (11) Spot light (for 500W) (12) Strip light (long)</pre> 1 set 62 lamps/set 800W 2 sets With X'non lamp 20 Half with convex lens 0thers with fresnel le 6 Feet 6 Feet	Half with conver	(lens
<pre>(9) Pin-spot light (10) Spot light (for 1KW) (11) Spot light (for 500W) (12) Strip light (long)</pre>	(7) Upper horizontal light 1 set 62 lamps/set 800	WC
<pre>(10) Spot light (for 1KW) (11) Spot light (for 500W) (12) Strip light (long)</pre> 20 20 20 12 20 4 20 4 6 Feet	(8) Low horizontal light 1 set 62 lamps/set 800	W
<pre>(11) Spot light (for 500W) (12) Strip light (long) </pre> <pre> 12 6 Feet </pre>	(9) Pin-spot light 2 sets With X'non lamp	
(12) Strip light (long)		
·"你是你,我们是你的是你?""你是你的我们们,你们们的问题?""我们的你们,你们就是你们的我们就是我们的?"	(11) Spot light (Ior DOW)	
(13) Strip light (short)	·"你是我们还是我们是我们,我是是我们的时候,你是我们的问题,我们就是我们的人们都是我们的我们的我们。"	
	"你是这个人,我们们就是你是我们的,我们就是你们的?""我们就是你们,我们就是我们的我们的我们。"	

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2) Accessories and spare par Parts	Q'ty	Remarks
(1) Filter holder for foot light	168	200%
(2) Lamp for foot light	168	200%
(3) Filter holder for border light	396	2004
(4) Lamp for border light	396	200%
(5) Filter holder for suspension spot light	182	200%
(6) Sufety chain for suspension spot light	96	
(7) Clamp hanger for suspension spot light	96	
(8) Lamp for suspension spot light	1.82	200%
(9) Filter holder for tower spot light	36	200%
(10) Safety chain for tower spot light	18	
(11) Lamp for tower spot light	36	200%
(12) Filter holder for ceiling spot light	36	200%
(13) Safety chain for ceiling spot light	18	
(14) Clamp hanger for ceiling spot light	18	
(15) Magno-color for ceiling spot light	18	
(16) Lamp for ceiling spot light	36	
(17) Filter holder for front side spot	24	
(18) Safety chain for front side spot light		
(19) Magno-color for front side spot light	12	
(20) Lamp for front side spot light	24	200%
(21) Filter holder for upper horizontal light	124	200%
(22) Safety chain for upper horizontal light	62	
(23) Clamp hanger for upper horizontal light	62	
(24) Lamp for upper horizontal light	124	200%
(25) Filter holder for low horizontal light	124	200%
(26) Safety chain for low horizontal light	64	
(27) Lamp for low horizontal light	124	200%
(28) Rectifier for X'non follow spot light	2	

(29) Mirror for X'non follow spot light	2	
(30) X'non lamp	4	200%
(31) Filter holder for spot light (1KW)	40	200%
(32) Safety chain for spot light (1KW)	20	
(33) Lamp for spot light (1KW)	40	200%
(34) Filter holder for spot light (500W)	24	200%
(35) Safety chain for spot light (500W)	12	
(36) Lamp for spot light (500W)	24	200%
(37) Filter holder for strip light (long)	64	200% 6 feet
(38) Lamp for strip light (long)	64	200%
(39) Filter holder for strip light (short)	32	200% 3 feet
(40) Lamp for strip light (short)	32	200%
(41) Stand (high)	20	To include casters
(42) Stand (1ow)	5 -	
(43) Step ladder	3	3 m
(44) Plastic filter	2500	600mm x 600mm
(45) Plastic diffusion filter	150	600mm x 600mm
(46) Operation bar for lighting	3	4m
(47) Telescopic hanger (for lkg)	20	
(48) Telescopic hanger (for 3kg)	5	
(49) Long hanger	10	
(50) Extension cable	30	5m x 20 10m x 10
(51) 10m cable with plug & connector	4	4 hall
(52) Light for audience in TV use	20	
(53) Lamp for audience in TV use	40	200% 500W
요즘 소리는 것 같은 것 같		

2.2.12 Light control system

1) Equipments list of the light control system

Equipment	Reference	Q'ty	Remarks
(1) Main switch board	DRG NO 2-38	1 set	
(2) Dimmer unit rack	DRG NO 2-32	1 set	
(3) Patching board	DRG NO 2-33	1 set	
(4) D/L switch board	DRG NO 2-34	l set	
(5) Preset fader board	DRG NO 2-35	l set	
(6) Lighting control consol	e DRG NO 2-36	l set	
(7) Dimmer unit	DRG NO 2-37		6KW: 48 10KW: 2

2) Accessories and spare parts

Parts	Reference	Q'ty	Remarks
(1) Patching coad		112	(Including in patching boad)
(2) Dimmer unit		2	6KW x 1 10KW x 1
(3) D/L switch		119	(114+5)
(4) Preset fader		10	
(5) Group fader		1	
(6) Master fader		1	
(7) Cross fader		1	
(8) Chair for LD		1	
(9) Lamps & fuses		1 set	300%
(10) Unit		l set	1/type
(11) Semiconductor		l set	2/type
(12) Other standard accessor ries and spare parts		. 1 set	

	2.2.13 Special effect mach	ine .		
	1) Equipments list	of special	effect i	machine
	Equipment	Reference	Q'ty	Remarks
(1)	Special effect spot machine		2 sets	
(2)	Mirror ball		1 set	30cm
(3)	Fogmat machine		l set	
(4)	Wind machine		l set	
(5)	Cowel spinner kit		1 set	
(6)	Wind howler kit		1 set	
(7)	Strobo power supply with flash lamp and extension cable		1 set	

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	Parts	Reference	Q'ty	Remarks
전문한	Film machine for special effect spot machine		2	Endless film x 10 Clear film x 20
(2)	Objective lens		4	Telescope x 2 Wide x 2
	Lamp for special effect spot machine		4	1000₩
	Spiral machine for special effect spot machine		2	Printed glass x20 Clear glass x30 Spiral matt x20
	Disk machine for special effect spot machine		2	465ø disk x10 178ø disk x 3
	Slide carrier for special effect spot machine		2	Metal matt x20 Print glass x30 Clear glass x30 Hand writing kit x10 Hand writing matt x10 Q-color 1 set (11 colors Developing set 1 set Retouching liquid 1 set

2.2.14 Public addressing system and others 1) Equipments list of PA system and others

Equipment	Reference	Q'ty	Remarks
(1) Public addressing mixing console	DRG NO 2-40 DRG NO 2-53	1	
(2) Public addressing mixing console in audience seat		1	4 inputs 5 outputs
(3) Monitor amplifier for public addressing use	DRG NO 2-16 DRG NO 2-17	l set	Including rack, jack panel, mounting shelf, fuse panel etc.
(4) Speaker (100W)	DRG NO 2-41	6	S-7000 type
(5) Speaker (50W)	DRG NO 2-17	2	For upper stage
(6) Speaker (15W)	DRG NO 2-17	3	For under stage 10cm type
(7) Intercom system	DRG NO 2-42 DRG NO 2-43	1 set	
(8) Interphone system	DRG NO 2-42	l set	
(9) CCTV camera system	DRG NO 2-44	2 sets	Including 10~100mm zoom lens 12 inch picture moni- tor, remote control box, mount head
(10) LT board	DRG NO 2-45 DRG NO 2-50 DRG NO 2-55	1 set	
(11) CVCF board	DRG NO 2-46 DRG NO 2-50	1 set	For 5KVA
12) AVR board	DRG NO 2-47 DRG NO 2-50	l set	
13) Rectifier board for emergency light	DRG NO 2-48 DRG NO 2-50	l set	
(14) Battery for emergency light	DRG NO 2-49 DRG NO 2-50	l set	180 cell.
15) NAB endless tape recorder & reproducer for audience		1 set	5 ch NAB A type
16) Clock & controller of audience display		1 set	Including rack, mounting shelf
(17) Buzzer switch for starting		l set	Jetc.

.

Parts	Reference	Q'ty	Remarks
(1) Spare unit		1 set	1/type
(2) Spare semiconductors		l set	2/type
(3) Lamps & fuses		1 set	300%
(4) Desk for interphone		1	Supplied by BTV
(5) Chair for public address- ing console		1	
(6) Shelf for emergency battery		. 1	Supplied by BTV
(7) Sub clock		13	Second clock x 2 + 1 30 sec clock x 9 + 1
(8) NAB A type endless tape		40	5 minutes x 20 10 minutes x 20

2) Accessories & spare parts

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3.	CONDITIONS							
			2.2.5 (1.7.5 (2.5)					
	.1 Ambient Condit	ions						
	Temperature	00	to 40°0					
	Relative hum							i i e Josh
		IUILY DE	LOM 90%			1777 A.S. 1778 - 17		
2	.2 Conditions for	anarating			and an Angles and She Angles and She She Angles and She			
.	• 2 CONDICIONS TOP	operating						
	Temperature	24	°c)			ere de la cale General de Cale	egi gere Del tarit	

Temperature 24°C	
	At subcontrol room and
Relative humidity 50%) rack roon
Temperature 26°C	Other places
Relative humidity 55%	
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4. OPERATING RANGES

- 4.1 Power Source
 - 400V 3ø 4W 50Hz or 220V 1¢ 2W 50Hz Voltage drift: ±15% Frequency drift: 48 ∿ 52Hz

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5. <u>CORCIOT</u>

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5.1 Block Diagram

Item	Reference
(1) Block diagram of video system	DRG NO 2-4
(2) Block diagram of audio system	DRG NO 2-16
(3) Block diagram of power source	DRG NO 2-50
(4) Block diagram for emergency lighting	DRG NO 2-51
(5) Block diagram of audio mixing console	DRG NO 2-52
(6) Block diagram of public addressing mixing console	DRG NO 2-53
(7) Block diagram of lighting control syste	em DRG NO 2-54
(8) Circuit of L/T board	DRG NO 2-55
(9) Circuit of power distributor in subcontrol room	DRG NO 2-56
(10) Light control unit & number of circuit	DRG NO 2-73

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6. INSTALLATION

.6.1 General

Generally, box and power distributor inside wall or stage are not included in this work.

Scope of works is as follows:

- 1) All wiring installation after the power distributor box in subcontrol room.
- 2) All wiring installation after the power distributor box in projector room.
- 3) All wiring installation after the power distributor box in
- the stage wall for operator.
- 4) All wiring installation after the main switch for stage
- lighting (exclude normal house light)

6.2 Layout of the Facilities

İtem	Reference
(1) Layout of the consoles and Racking in subcontrol room	DRG NO 2-57
(2) Layout of the concent boxes in the ground floor	DRG NO 2-58
(3) Layout of the concent boxes in the first floor	DRG NO 2-59
(4) Layout of the concent boxes in the second floor & third floor	DRG NO 2-60
(5) Layout of the microphone concent boxes on the stage	DRG NO 2-61
(6) Layout of the lighting concent boxes on the stage	DRG NO 2-62
(7) Arrangement of suspension battens (I) (II)	DRG NO 2-63 DRG NO 2-67
(8) Layout of the lights for TV use in audience	DRG NO 2-64

6.3 Arrangement

Item	Reference
(1) Wire route for flying sets	DRG NO 2-65
(2) Clamp of ceiling spot light	DRG NO 2-66
(3) Arrangement of the suspension microphone system	DRG NO 2-10 DRG NO 2-11
(4) Arrangement of the main loudspeaker	DRG NO 2-12 DRG NO 2-68

6.4 Installation Material

Item	Reference	Q'ty	Remarks
(1) Wiring material(2) Plate with connector	Refer to 6.2 clause Refer to	1 set	
(3) Blank plate(4) Other installation materials	6.2 clause	1 set 1 set 1 set	80

6.5 Performance

Iten	Reference
(1) Performance table of total video system	DRG NO 2-69
(2) Performance table of total audio system	DRG NO 2-70
(3) Performance table of light control system(4) Performance table of suspension system	DRG NO 2-71 DRG NO 2-72

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7. INSPECTION

7.1 Presentation of Inspection

Inspection and review to be carried out by personal of BTV. Inspection data should be held after licensor offer its inspection results.

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7.2 Appraisal

After the results of the inspection are compared with the Specification Standard, then we consider whether or not it is.

7.3 Expenses of the Inspection

The inspection will be held within the licensor will be responsible for any expenses incurred.

7.4 Location of the Inspection

The inspection will be held within the licensor's plant and an alternative site which will serve that particular purpose.

7.5 Instruments of Measurement

The licensor will provide the necessary instruments of measurement, in order to effectively carry out the inspection.

APPENDIX 1

Lighting Control System by Electronic Connection Method

1. Main Specification

(1)	Power source	220V/380V 3Phase 4 Wire
(2)	Power capacity	250 KVA
(3)	Numbers of load	112 circuits
(4)	Numbers of fader	50 circuits
(5)	Lighting control unit	Plug-in Method 3KW 84 units 6KW 26 units 10KW 2 units
(6)	Capacity of preset scene	6 scenes
(7)	Memory capacity of electronic connection	3 scenes
(8)	Back-up method	Pin-board method
(9)	Fader setting	Auto-setting
(10)	Others	In case of interruption of power survice, there should be some device not to disappear electronic
		cross connection memory.

2. Constitution (including spare parts)

Equipment or parts	Reference	Q'ty	
(1) Main switch board	DRG NO 2-76	1	
(2) Dimmer unit rack	DRG NO 2-76	3	
(3) Preset-fader board	DRG NO 2-77	1	
(4) Operate & control desk	DRG NO 2-78	1	
(5) Dimmer unit	DRG NO 2-37	112	(112+3)
			3KW 84+1(spare) 6KW 26+1(spare) 10KW 2+1(spare)
(6) Standarts spare parts and		l set	NFB etc.
accessaries			

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Equipments or parts	Po	ference	Q'ty	
Equipmentes of parts		rerence	ΥĽУ	
(7) Lamp & fuse			1 set 300%	
(8) Chair for LD		그는 사람은 가슴을 가슴		
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(9) Preset-fader (spare)		1. 	0	
(10) Group-fader (spare)			1	
(11) Cross-fader (spare)			1	
(12) Master-fader (spare)			1	
(13) Unit extender			1 set 1/1 ty	′pe
(14) Spare unit	2년 2월 14일 (1943) 1939년 1831 - 1943)		1 set 1/1 ty	′pe
(15) Spare semiconductor			1 set 2/1 ty	rpe
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3. Circuit				
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	Circuit	Reference	
(1)	Block diagram of lighting control system by electronic connection method	DRG NO 2-79	
(2)	Circuit block diagram of cross connection method	DRG NO 2-80	
4.	Layout		

	Layout	Reference	
((1) Rack & console's layout in sub control room	DRG NO 2-75	

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APPENDIX 2

Acoustical Measurement of Public Address System

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- 1. Effective stable gain
 - 1.1 Method of measurement [See Figure 1]
 - (1) A vari-directional microphone [such as a type RV-1A, KM-56, etc.] is set up at a height of one meter at a typical position on the stage [such as the position of the elevator microphone].
 - (2) A primary sound source loudspeaker [type RS-16 or equivalent] is positioned at a point 50cm from the microphone on the axis of the microphone. 1. 1. 1. 1. 1. 1. 1.
 - Without using a 1/3 octave filter in the P.A (3) system, an attenuator is set at the point 6dB below the critical gain of acoustic feedback.
 - (4) The primary sound source loudspeaker is driven by the pink noise.
 - The sound pressure level [A] that the primary sound (5) source feeds into the microphone is read off at the position of the microphone, and the sound pressure level [B] that is amplified into the auditorium is read off at typical positions in the audience section using a noise meter [set at range C], and the difference in levels [B-A] is taken as the effective stable gain.
 - (6) This measurement is carried out repetitively with the microphone being set to provide different directional properties each time.

(7) [A] should be anywhere between approximately 80 to 85dB.

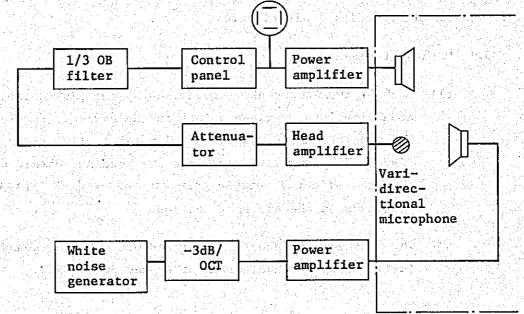
1.2 Evaluation

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(1) The effective stable gain [A-B] should be -10dB or more. In normal auditoriums, with a non-directional microphone the figures would be -8 to -13dB; with a bi-directional or uni-directional microphone, the figures would be -4 to -8dB.

Figure 1 Block diagram used in the measurement of effective stable gain

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- 2. Critical level distribution
 [Figure 2]
 - 2.1 Method of measurement
 - (1) The critical level distribution are measured at each of the selected positions on the stage either using the

full bandwidth or 1/3 octave bands, and are expressed by the deviation from the typical point of the microphone with which the effective stable gain was measured.

2.2 Evaluation

Ascertain whether or not there are any specific points on the stage where acoustic feedback is particularly liable to occur, or whether acoustic feedback susceptibility varies between the righthand side of the stage and the lefthand side of the stage.

3. Sound pressure level distribution

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3.1 Method of measurements

- (1) Each of the loudspeakers is driven by the pink noise, the sound levels at various points in the audience section are read off using a sound level meter [set at range C], and expressed by the deviation from the readings obtained when the effective stable gain was measured at typical positions in the audience section.
- (2) The measurements should be carried out with the sound level within the auditorium at around 80 to 85dB.

3.2 Evaluation

 Deviations in the sound level should be within 3dB.
 However, at points along the front edge of the stage or directly below the balcony, deviations of around 5dB shall be permissible.

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(2) If there are areas where there are extremely large deviations, the levels of the respective loudspeakers

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should be readjusted.

- 4. Transmission frequency response of the loudspeaker
 - 4.1 Method of measurements 1 [See Figure 2]
 - A non-directional microphone is positioned in the audience section at a height of one meter directly in front of the loudspeaker whose characteristics are to be measured.

- (2) The loudspeaker is driven by pink noise so that the sound level in the subject audience section is around 80 to 85dB.
- (3) The output of the microphone is analyzed to obtain the transmission frequency characteristics.
- (4) A frequency analyzer employing a 1/3 octave filter should be used.

4.2 Method of measurements - 2 [See Figure 3]

- (1) The loudspeaker is driven using the pink noise contained in a sound source tape [see attachment 1] or a disk generating pink noise [CBS STR-140], and adjusted so that the sound level at the audience section is around 80 to 85dB.
- (2) The loudspeaker is driven by the band noise sections of the sound source tape or the test disk, and the fluctuations in the sound level at the audience section directly in front of the loudspeaker is read off from range C of a sound level meter.
- 4.2 Evaluation
 - (1) Check to see whether the transmission frequency response

are flat and have no peaks or dips.

(2) If multi-way loudspeakers are used, care should be taken to ascertain whether or not there are any particularly prominent peaks or dips in the vicinity of the crossover frequencies.

Figure 2 Block diagram used in the response measurement of loudspeaker system

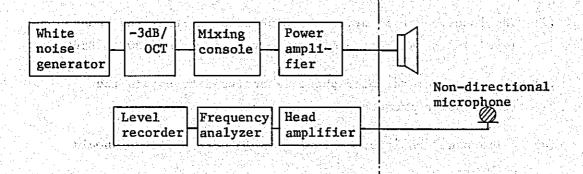
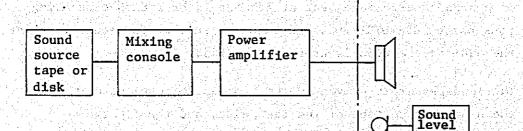


Figure 3 Block diagram used in loudspeaker's response measurement by use of the disk or tape



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5. Critical gain frequency characteristic just below acoustic feedback

- 5.1 Method of measurements [See Figure 4]
 - (1) A non-directional microphone is positioned on the stage at a typical position [normally at the position of the center elevator microphone] at a height of approximately one meter.

- (2) The P.A system is adjusted in accordance with the prescribed level diagram.
- (3) An acoustic feedback loop for each of the loudspeakers is generated, the setting of the attenuator that provides the acoustic feedback limit point for each 1/3 octave band is read off, and the figures are plotted to thereby comprise the acoustic feedback frequency characteristics.

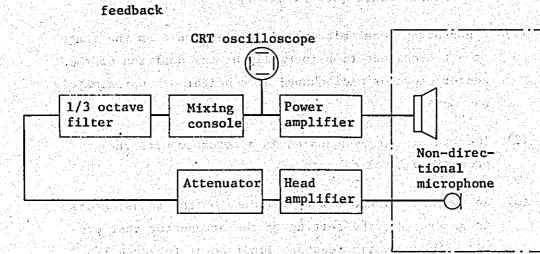
5.2 Evaluation

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- The critical gain frequency characteristic just below acoustic feedback should be as smooth as possible over the entire bandwidth, without any prominent peaks or dips.
- (2) Check to see whether there are any particular loudspeakers that have exceptionally high acoustic feedback levels.

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Figure 4 Block diagram used in the measurement of critical gain frequency characteristics just below acoustic



6. Clarity

6.1 Method of measurements

(1) The narrator stands before the microphone and reads out. syllables in accordance with the list of some syllables.

- · 这些主要的问题,我们在我们在这些问题和考虑了。 (2) The test positions are set up by dividing the audience section of the auditorium into two halves; and using either the right half or the left half, around 10 to 30 points are picked out in such a manner that they are distributed evenly throughout the audience section being used at intervals of 8 to 10m, for use as the test positions.
- (3) The listeners at the test positions listen to the sounds of the lists, each one of which consists of 100 syllables per list, shifting their positions for each reading.

(4) The average playback level for the auditorium during the tests shall be around 70 to 75dB.

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(5) If it turns out that there are extreme differences between certain listeners, the results of tests conducted by these listeners shall be eliminated from the overall results.

7. Listening tests

7.1 Method of tests

(1) The sounds of actual conversations by male and female speakers picked up by microphones shall be listened to from the audience section, and the functioning of the electrical and acoustic equipment and usage of microphones shall be evaluated.

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(2) Using sound sources prepared beforehand, voicing by males and females, classical music, jazz, light music, and rock music will be played back, and the quality of the acoustics shall be evaluated.

Attachment 1

Contents of sound source tape for measuring of electrical and acoustic equipment

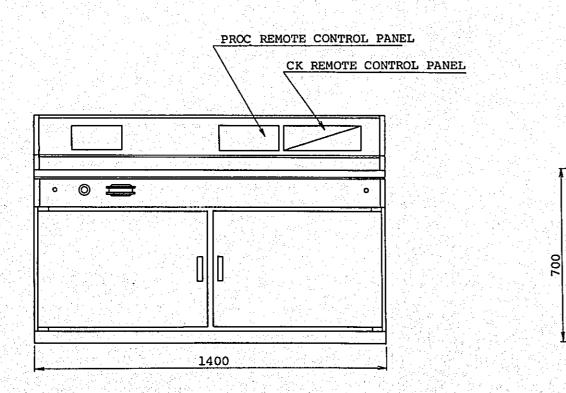
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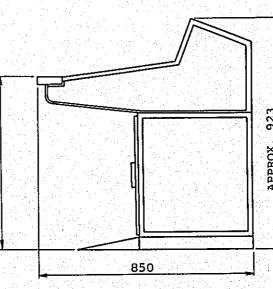
Section 1	BTS standard tape; 1,000Hz signal at same level as level adjusting signal	30 sec.
Section 2	Full bandwidth pink noise at same level as Section 1	30 sec.
Section 3	Band noise consisting of pink noise divided into 1/3 octave bands	
	80Hz, 100Hz, 125Hz, 160Hz, 200Hz, 315Hz,	10 sec.
	400Hz, 500Hz, 630Hz, 800Hz, 1,000Hz,	each with
	1,250Hz, 1,600Hz, 2,000Hz, 3,150Hz,	intervals
	4,000Hz, 5,000Hz, 6,300Hz, 8,000Hz, 10,000Hz	of 5 sec.
Section 4	Full bandwidth pink noise equivalent of Section 2	3 min.

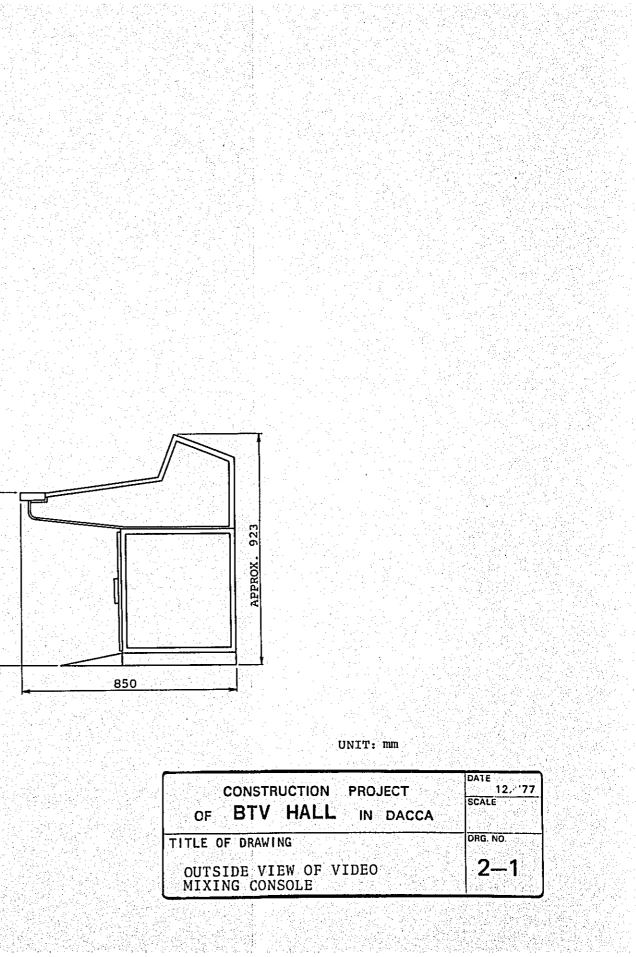
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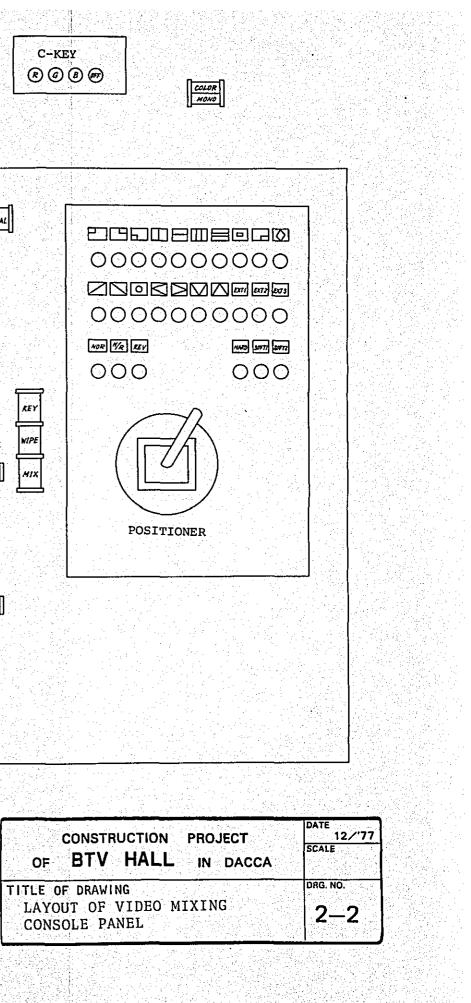
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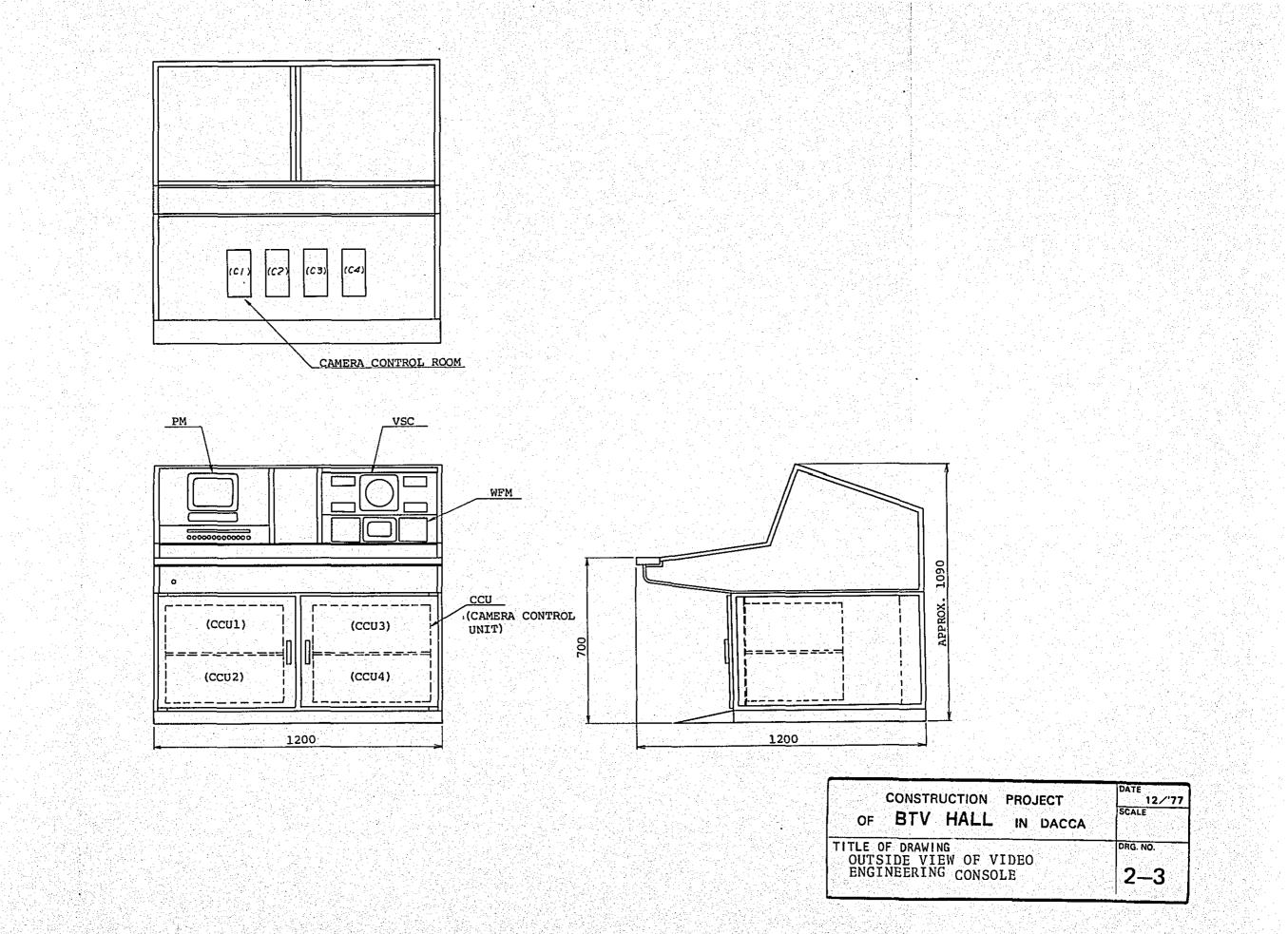


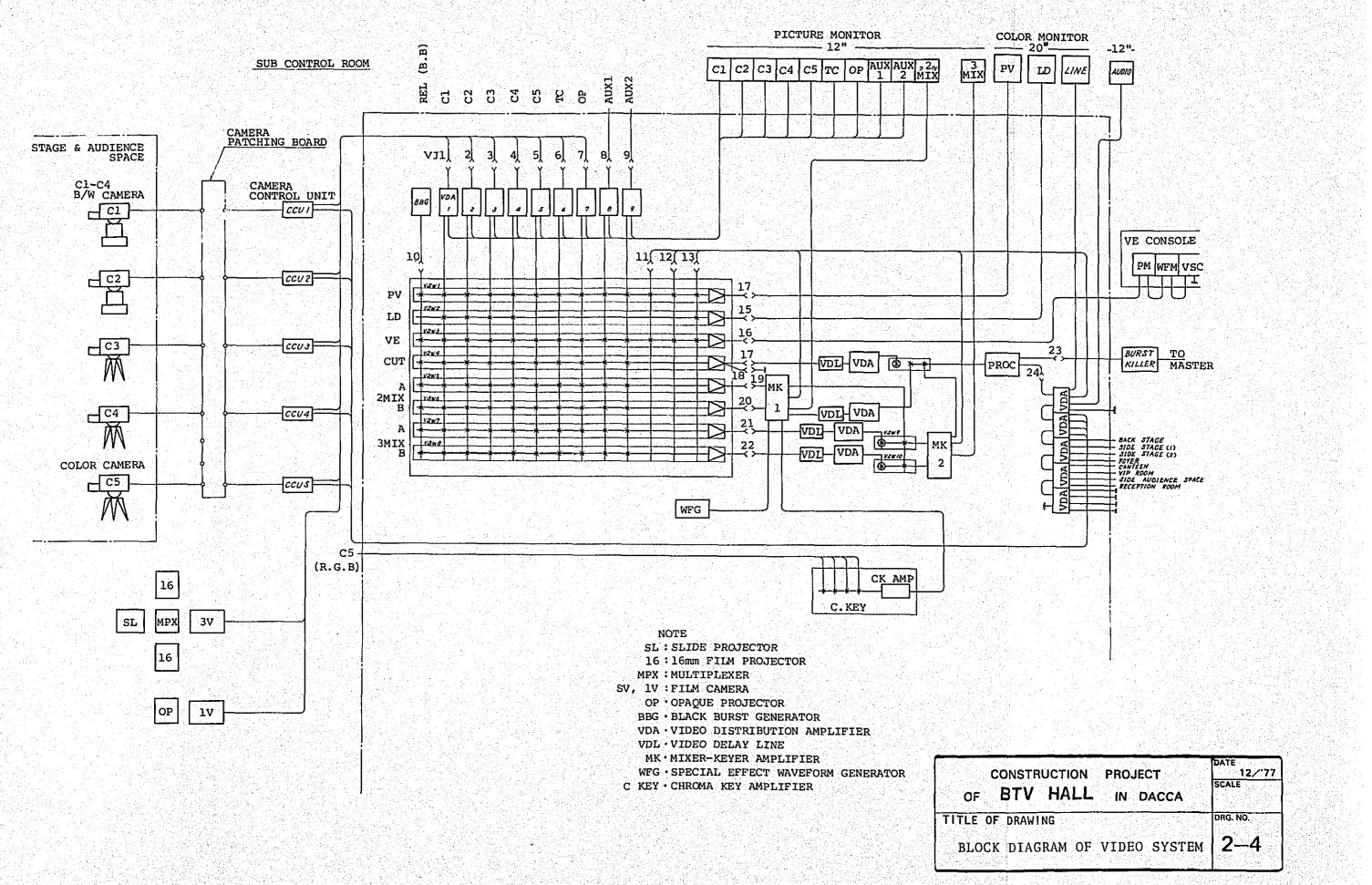


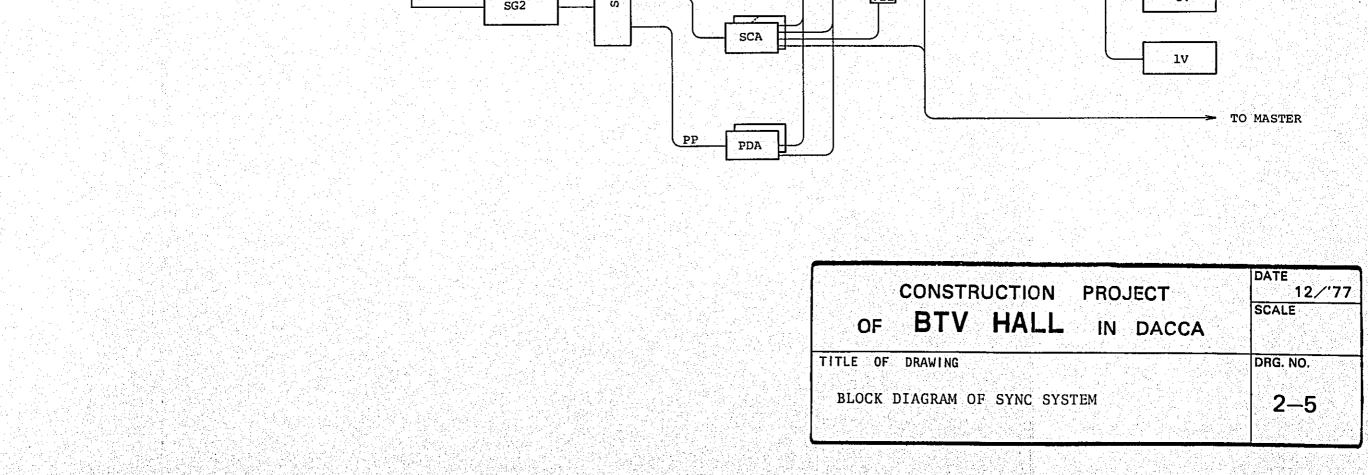


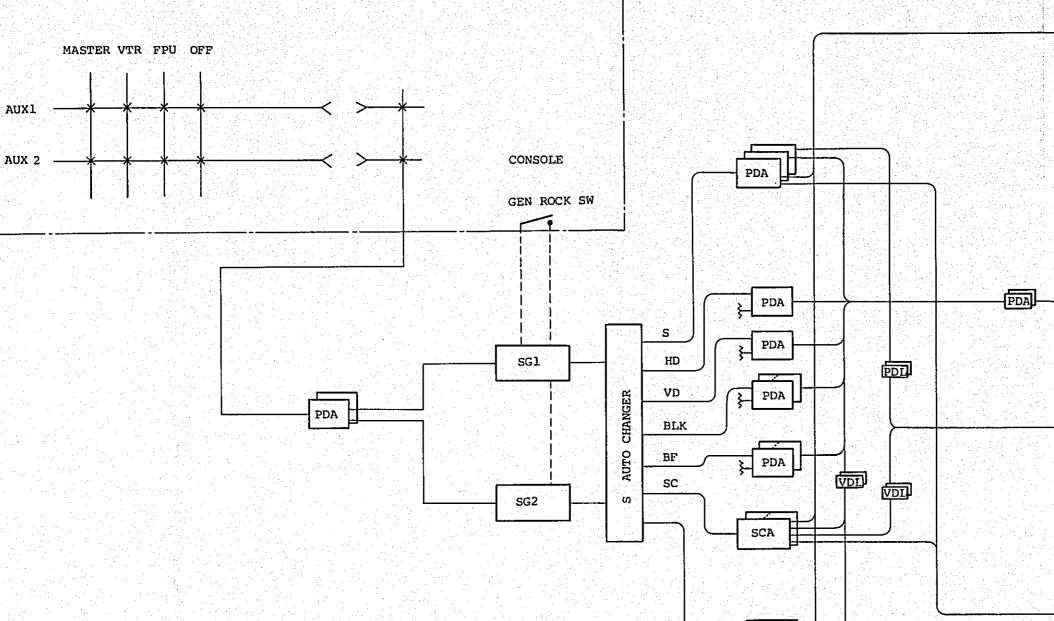


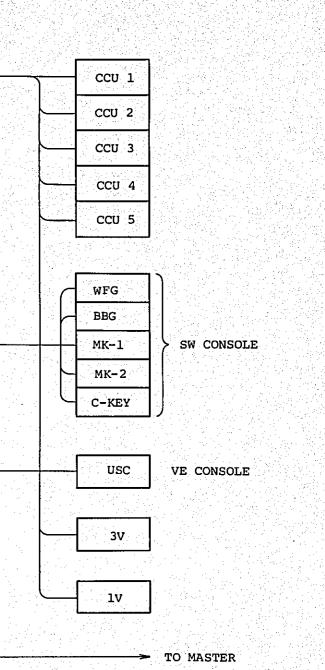
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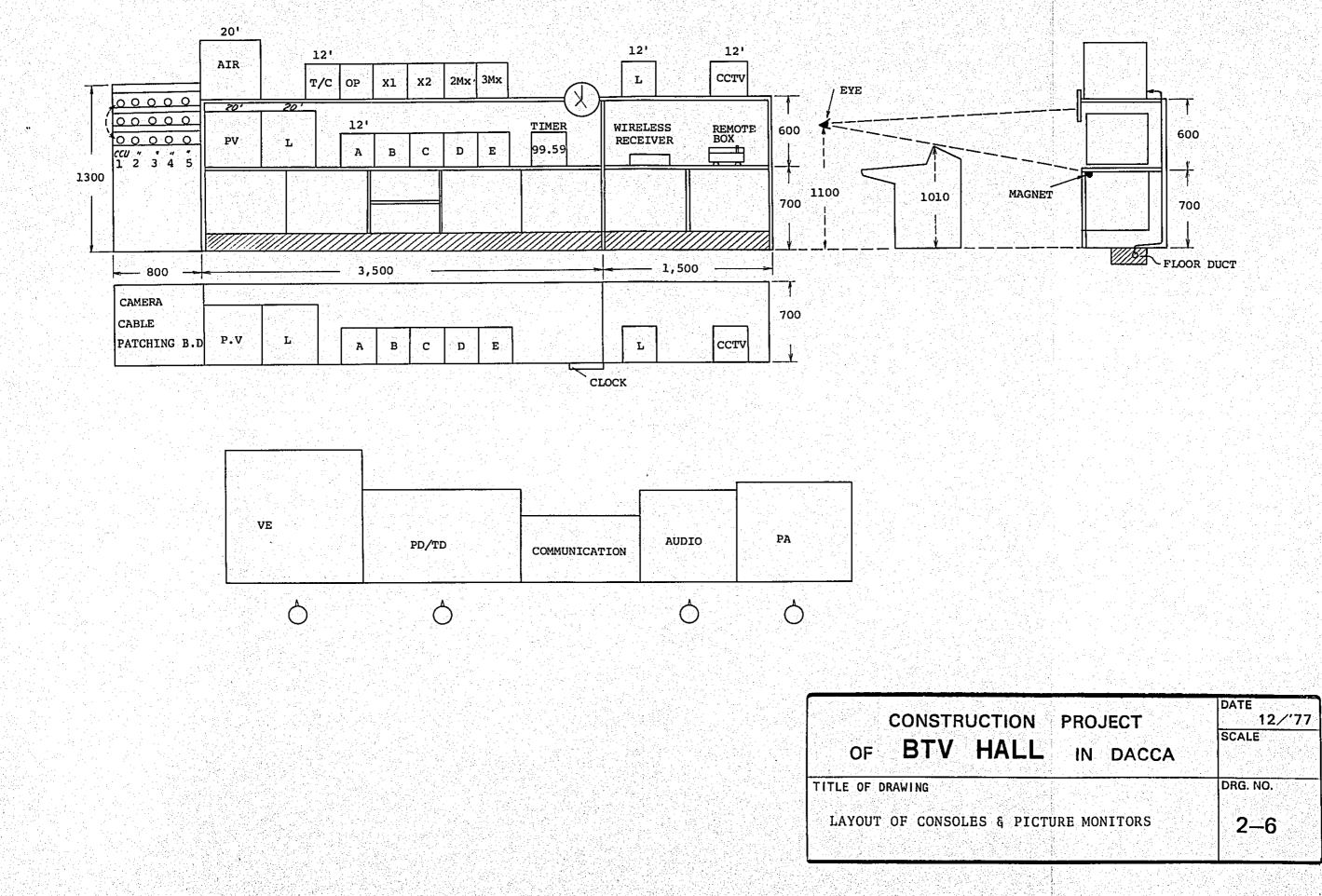


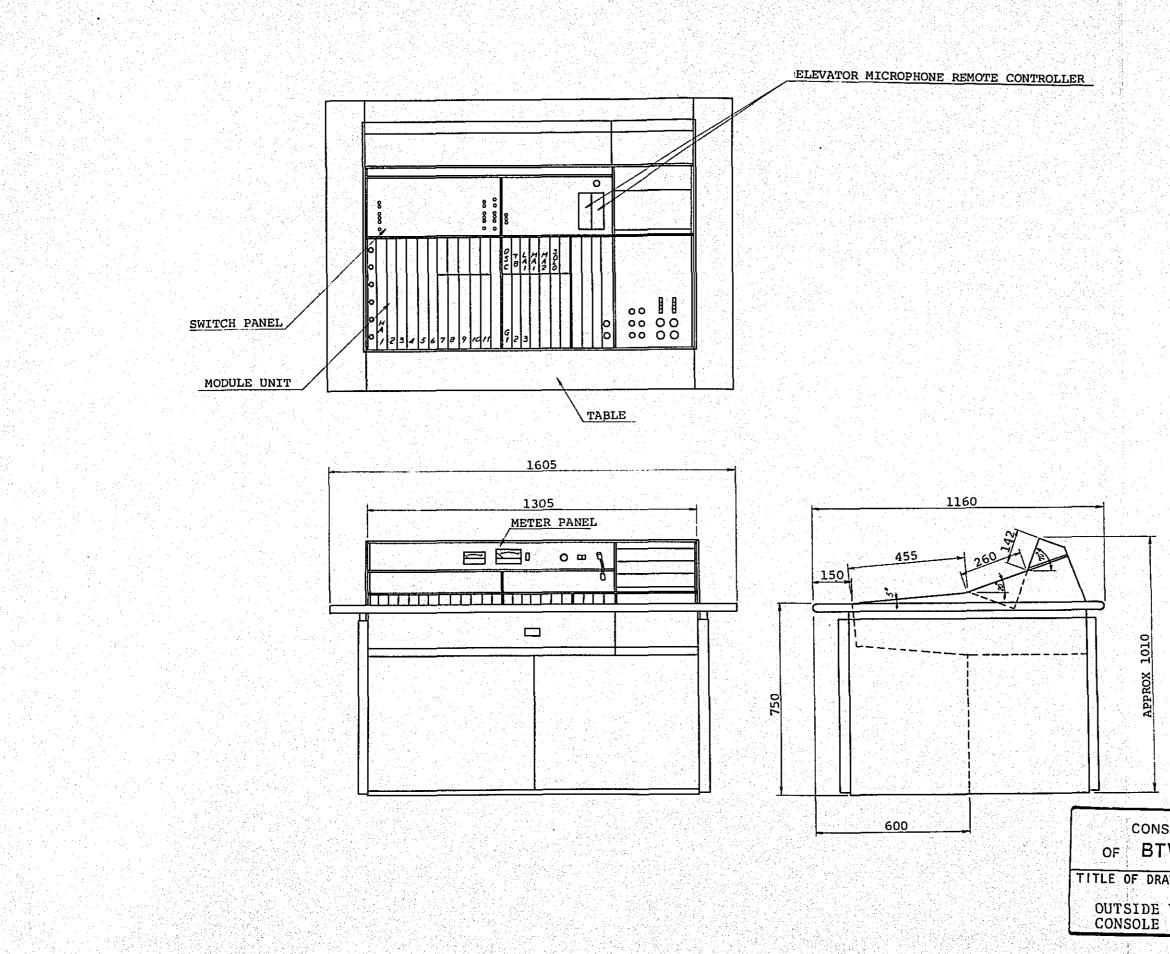




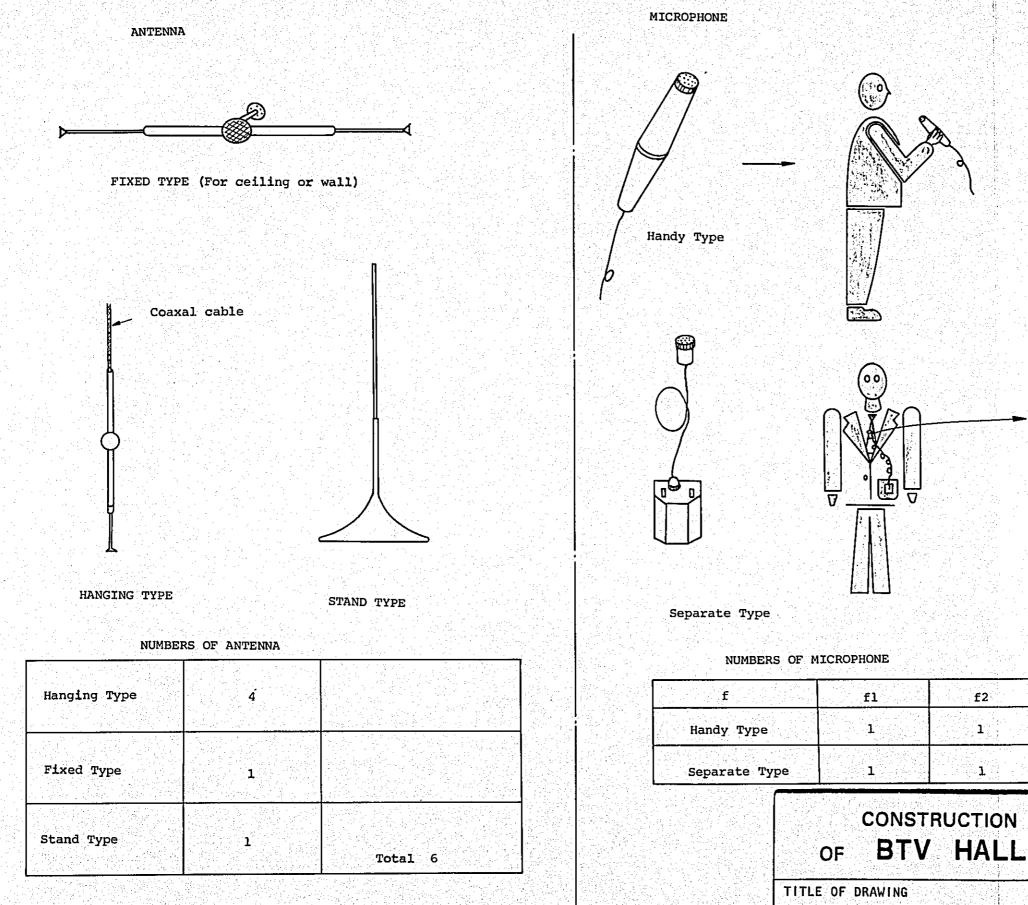








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이는 전 에 가지 않는 것이 같은 것이 같은 것이 있는 것이 같이 많이 있다. 것이 있는 것이 같은 것이 같이 있다. 같은 것이 <mark>전</mark> 에 가지 않는 것이 같은 것이 같은 것이 같이 있다. 것이 같은 것이 같은 것이 같은 것이 같은 것이 같은 것이 같은 것이 같이 있다. 것이 같은 것이 같은 것이 같은 것이 같은 것이 있다.
APPROX 1010
CONSTRUCTION PROJECT
DT1/ IIAII
OF BTV HALL IN DACCA
E OF DRAWING DRG. NO.
UTSIDE VIEW OF AUDIO MIXING 2-7
가장 바람이는 것은 것은 것은 것은 것은 것을 것을 것을 것 않는 것을 것 같아요. 것은 것은 것을 것을 것 같아. 같은 바람이는 것은 것은 것은 것은 것은 것은 것은 것은 것을 것 같아. 것은 것은 것은 것을 것 같아. 것은
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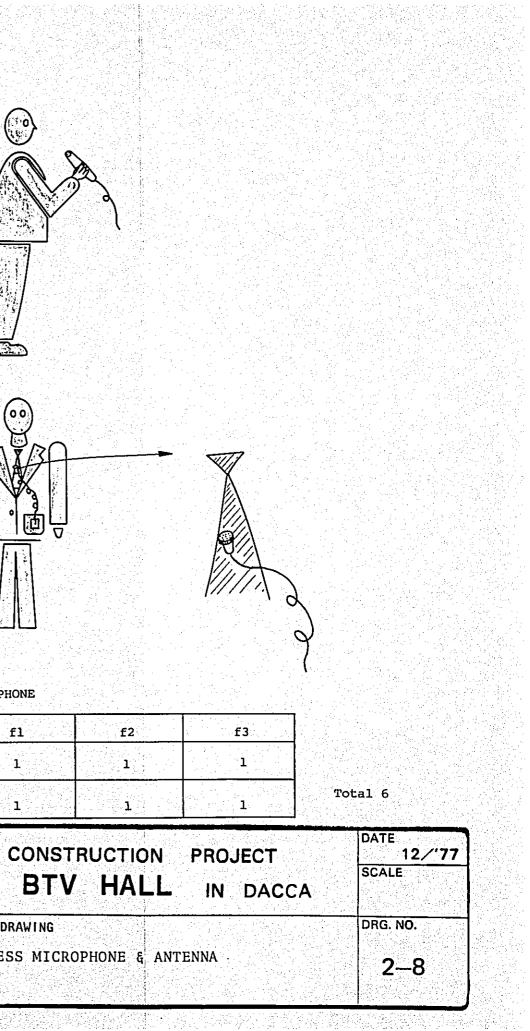


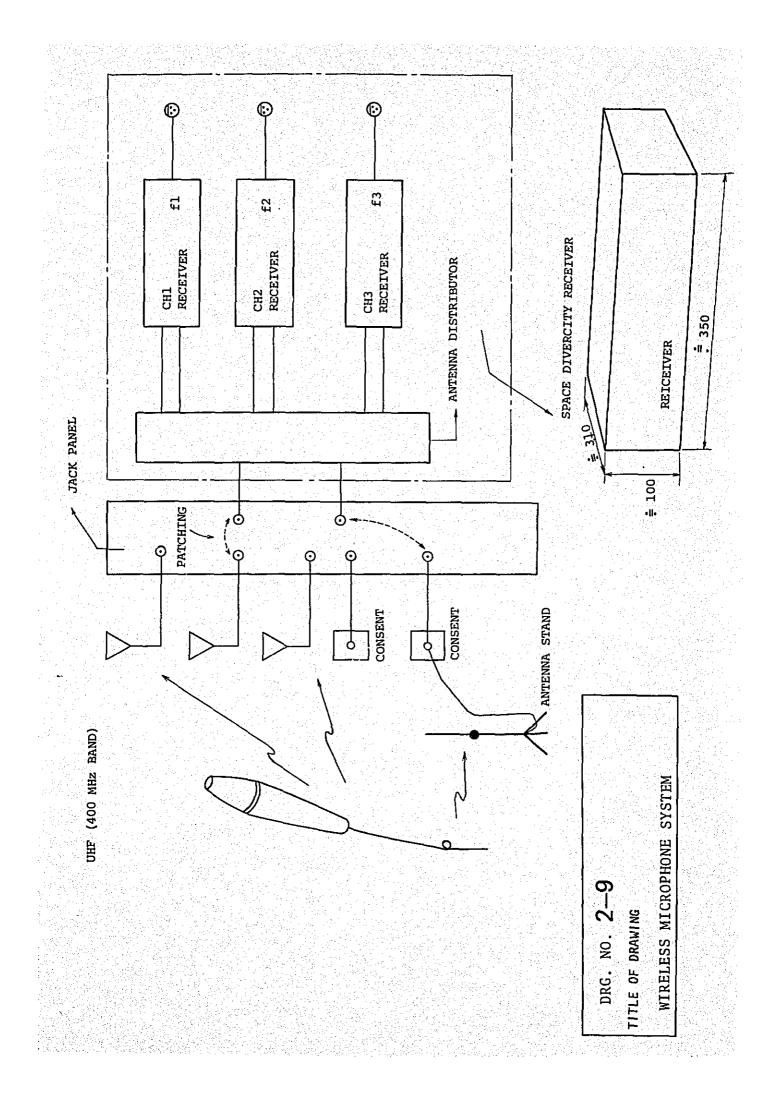
WIRELESS MICROPHONE & ANTENNA

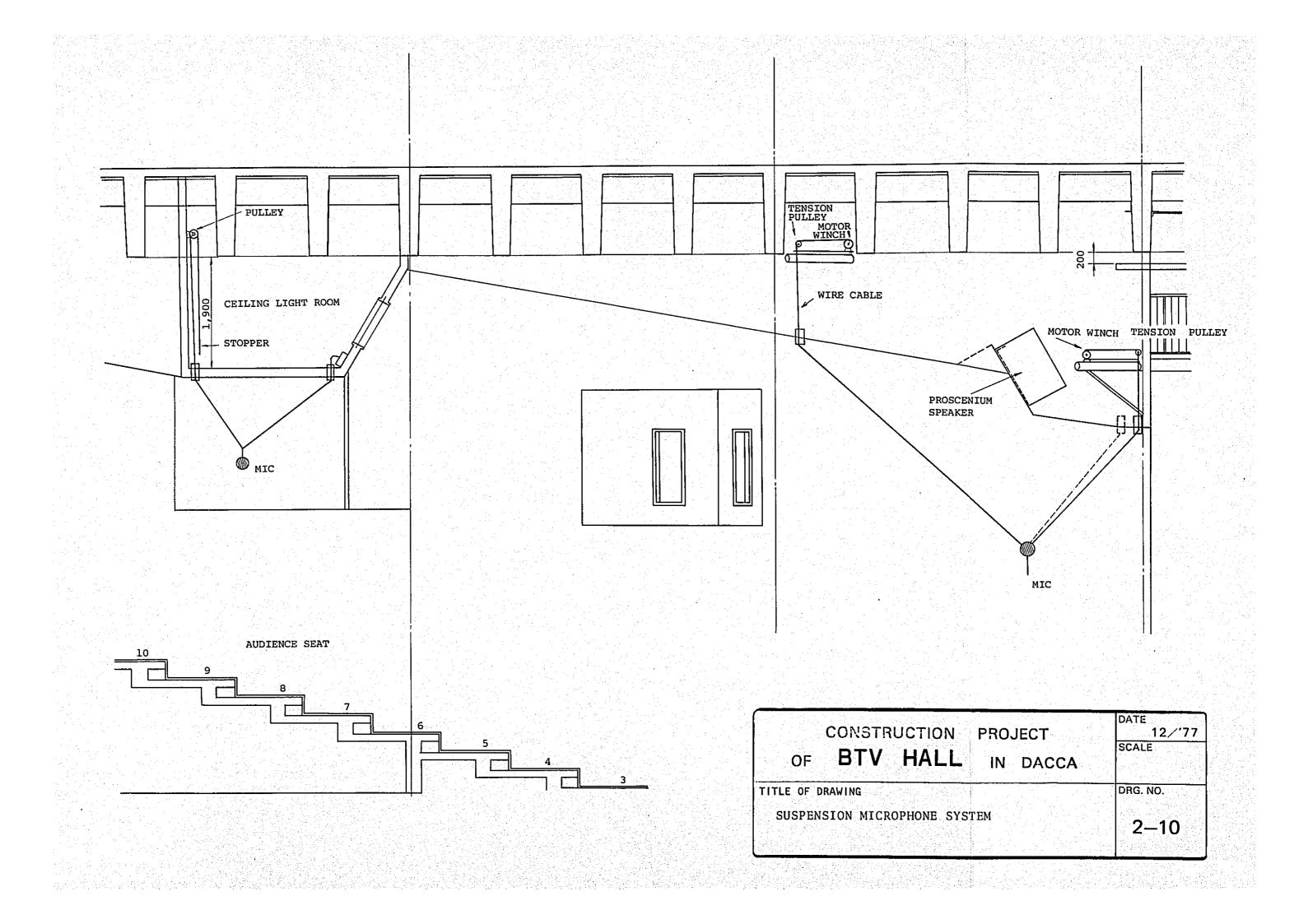
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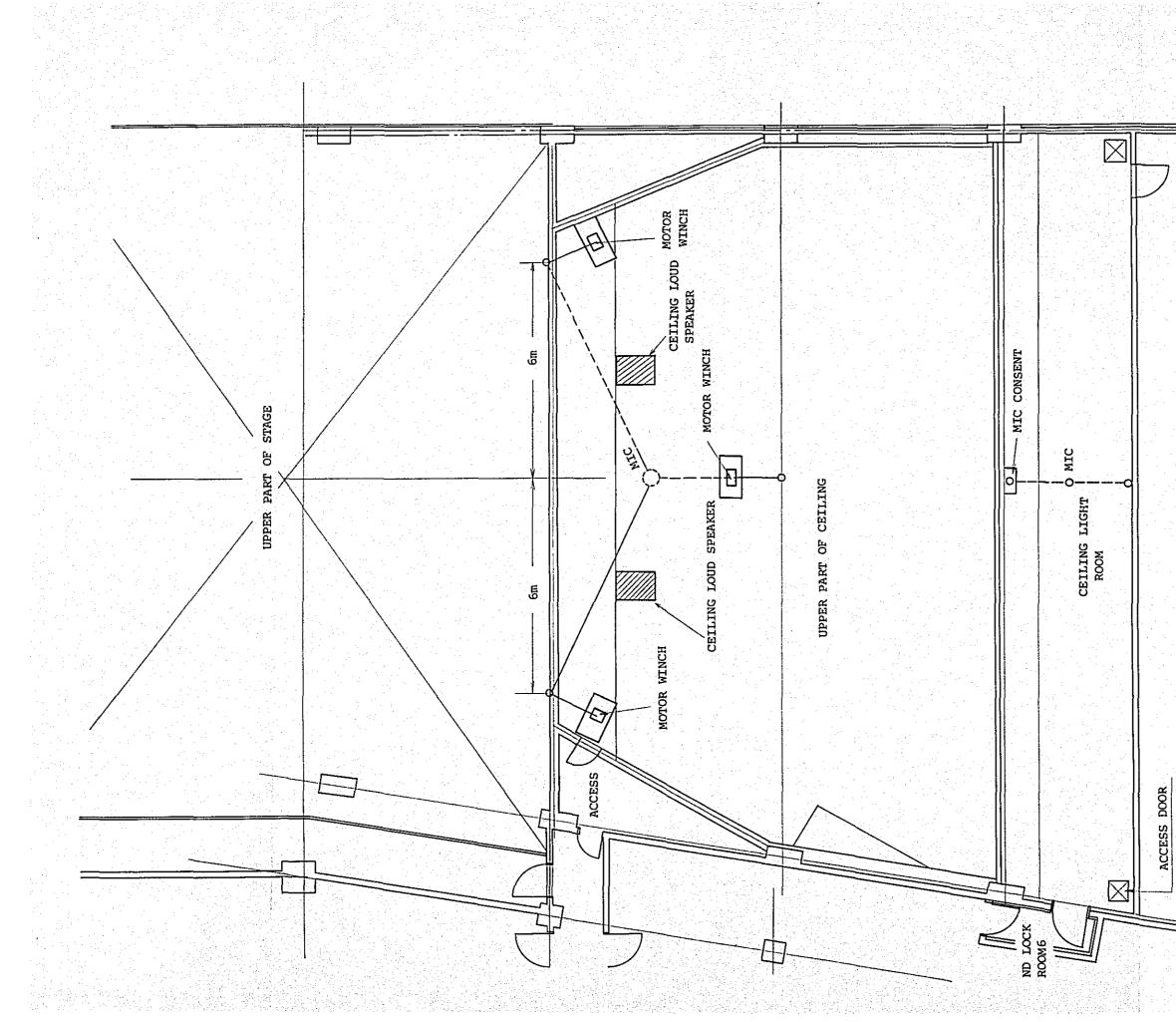
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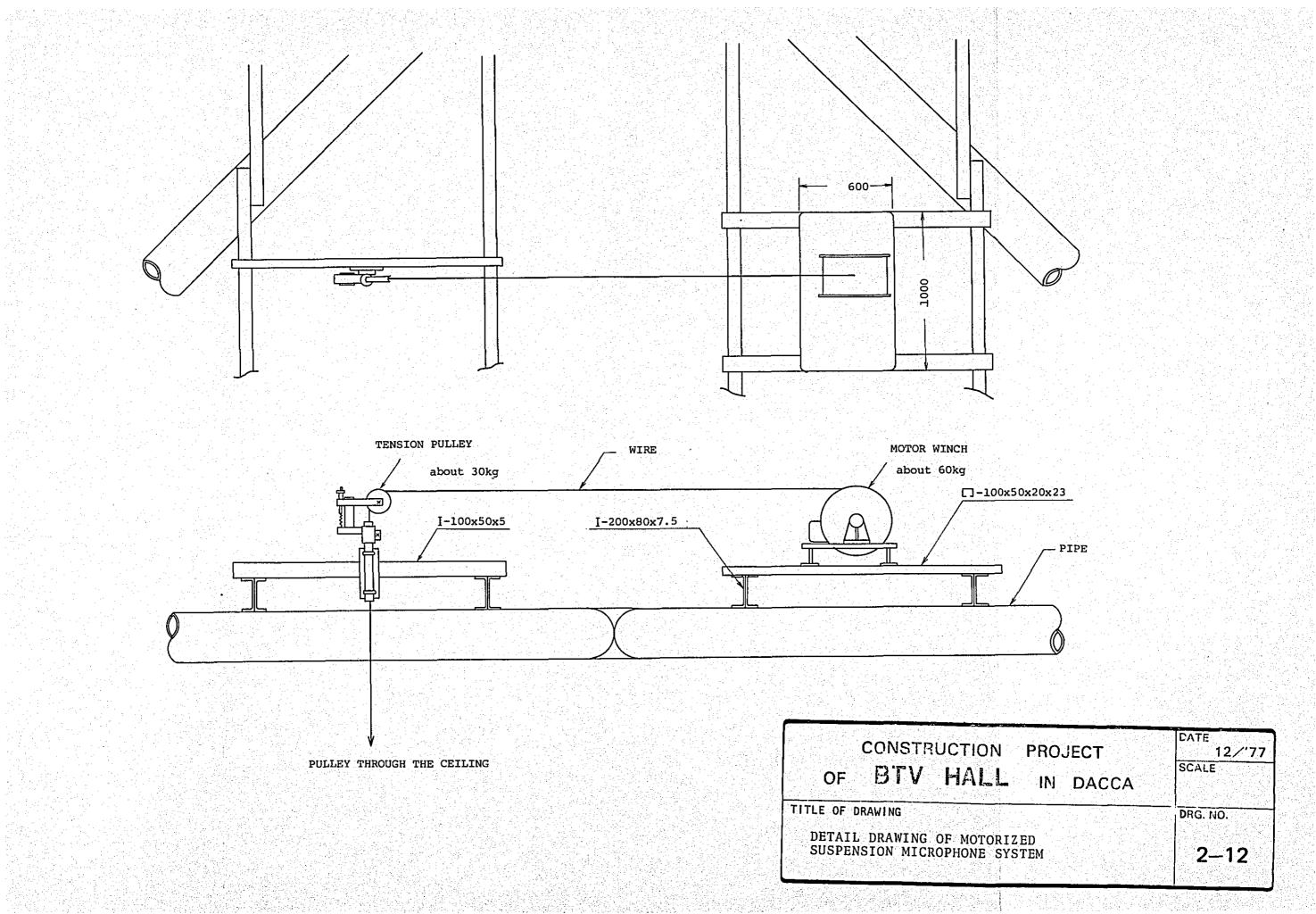


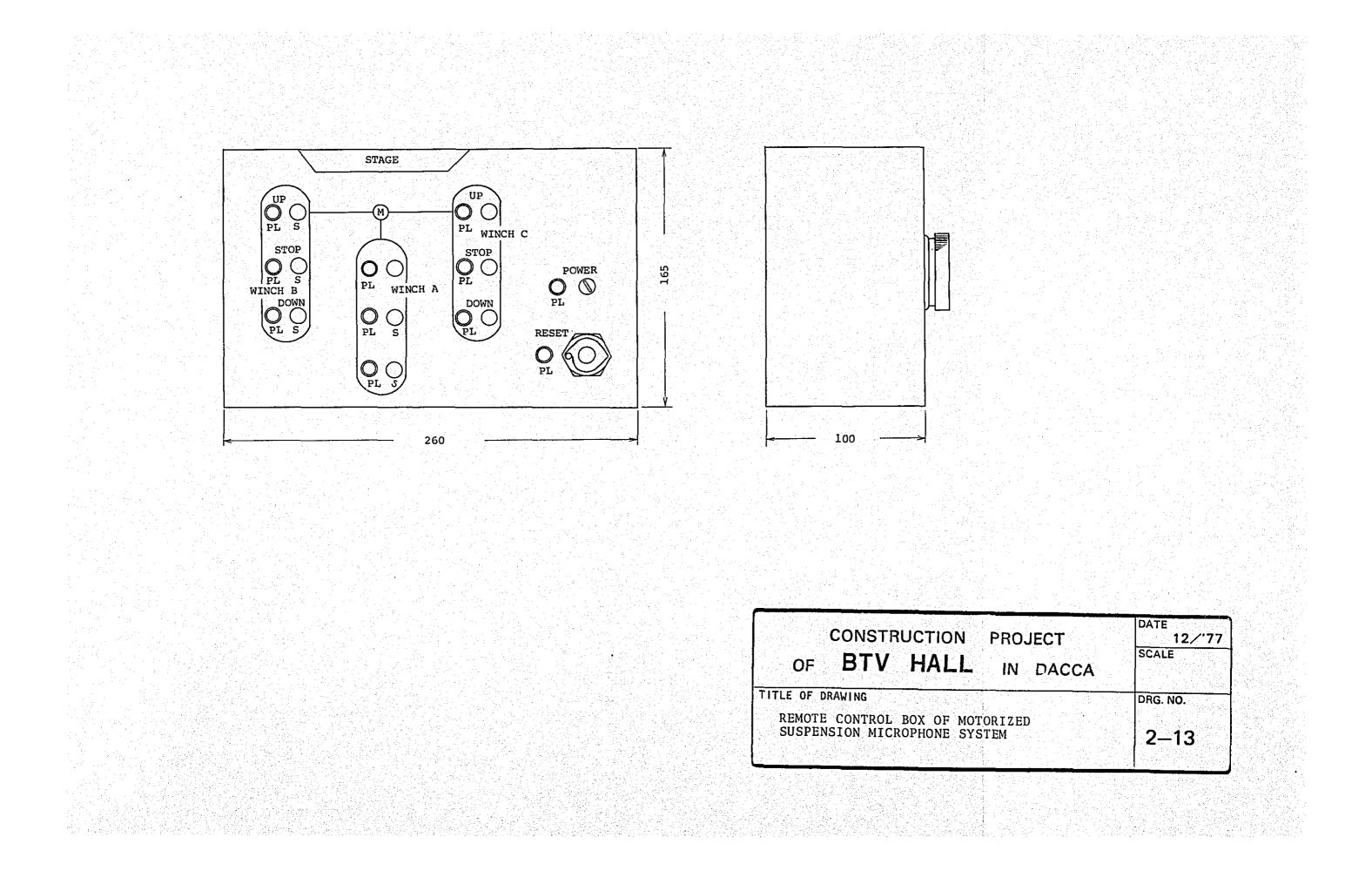






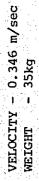
12/77 2-11 DRG. NO. SCALE DATE IN DACCA PROJECT LAYOUT OF MOTORIZED SUSPENSION MICROPHONE SYSTEM BTV HALL CONSTRUCTION TITLE OF DRAWING Ю

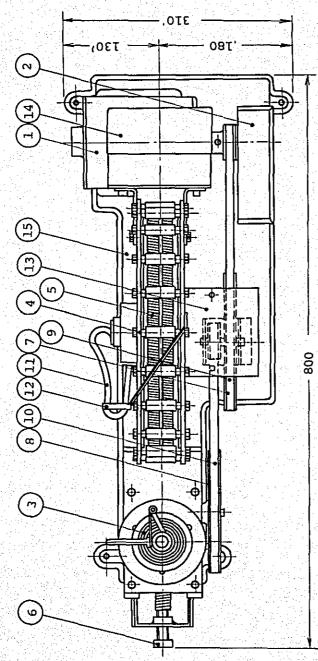


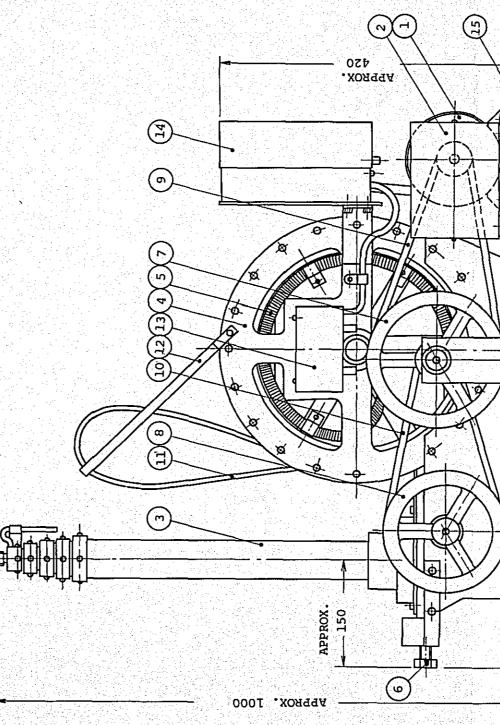


ITEM	V. PULLEY	V. PULLEY	DRIVE ROLLER	ADJUST BOLT	SPRING	WIND UP SPRING DRUM	PIPE	MAGNET BREAK BOX	MOTOR	
NO.	8	7	9		5	4	3	2	l	

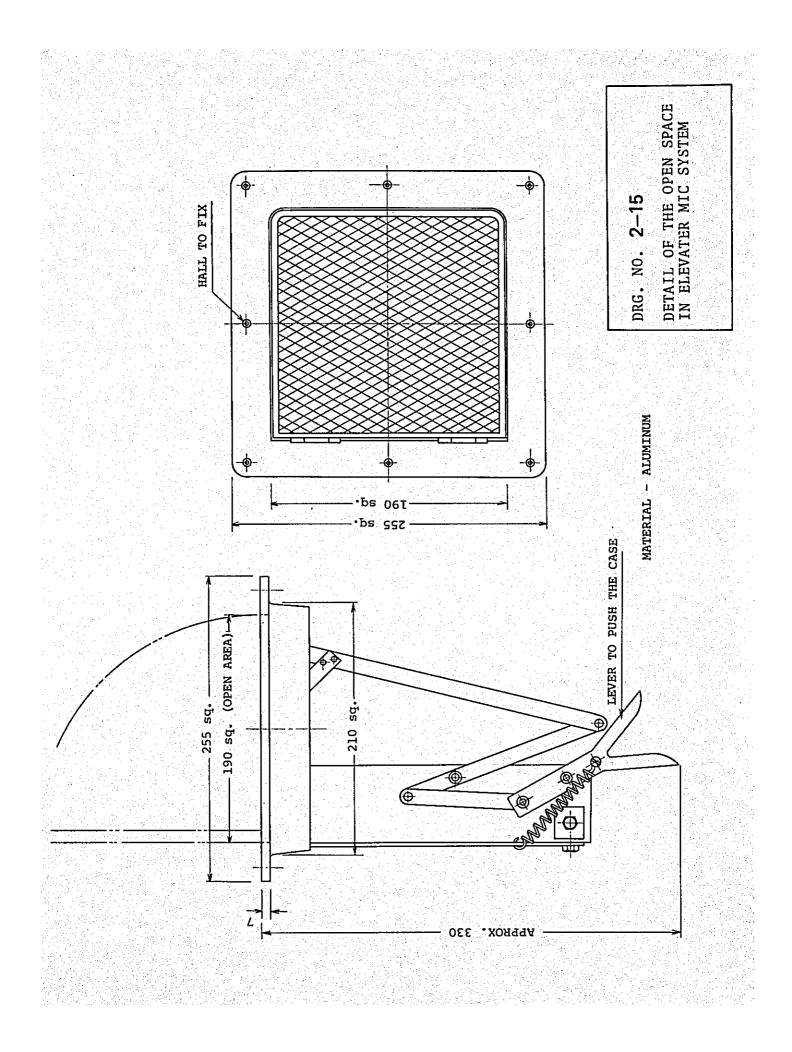
	NO.	LTEM
	15	BASE
	14	MAGNET SWITCH BOX
	13	LIMIT SWITCH BOX
	12	INSTRUMENT FOR CC
	11	VINYL, CODE
· .	10	V. PULLEY
13.4 72.5	6	V. PULLEY

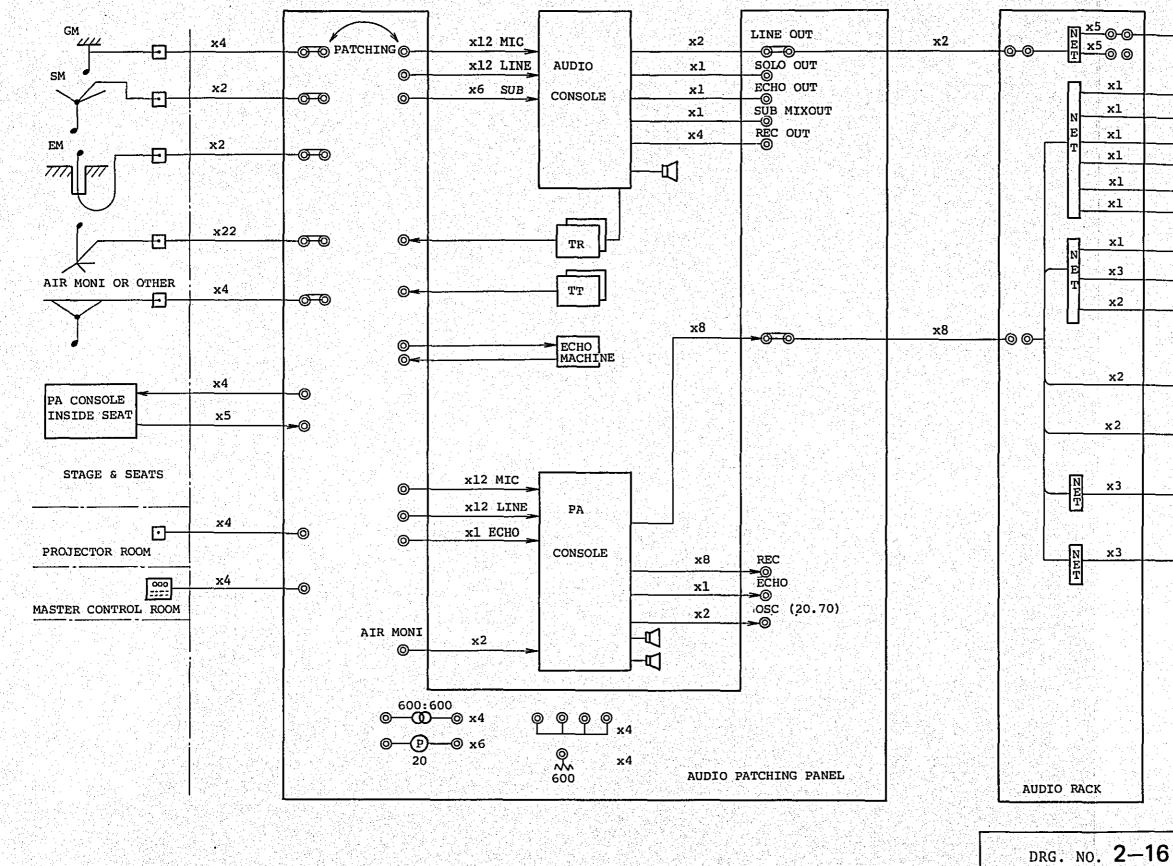






11. 2-14 12 DRG. NO. SCALE DATE DACCA PROJECT Z OUTSIDE VIEW OF MOTORIZED ELEVATER MICROPHONE SYSTEM HALL CONSTRUCTION 350 BTV TITLE OF DRAWING ЧÖ 800 360 6





BLOCK DIAGRAM OF AUDIO SYSTEM

VIP ROOM
 RECEPTION ROOM
 FOYER
 MAIN LOBBY (VIA MASTER)
 CANTEEN
 WAITING ROOM

TO MASTER

FOLD BACK (BACK STAGE)
 FRONT STAGE
 UPPER STAGE

PROSCENIUM

SIDE STAGE

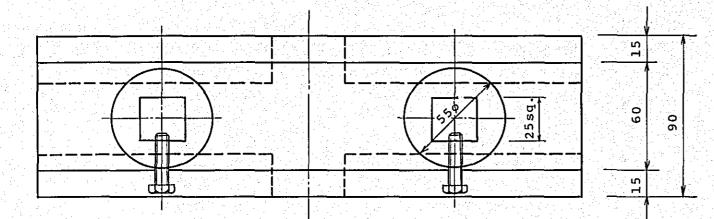
>

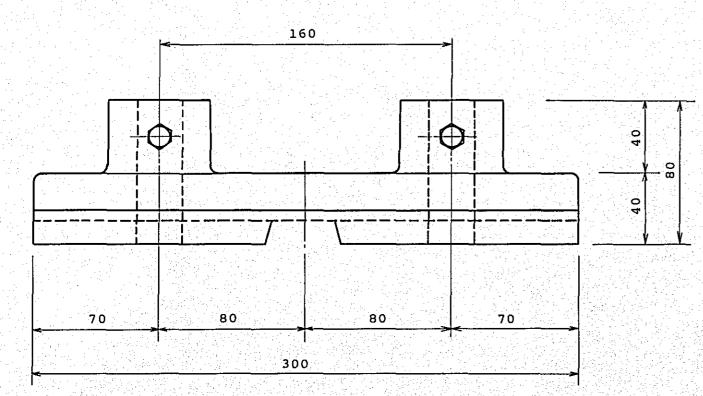
STAGE L

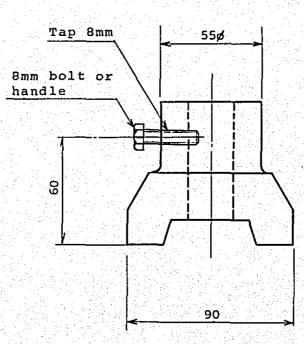
STAGE R

		1 Movable type	L Movable type	1 Movable type	1 Movable type, via master CTL room	1 Movable type	1 Movable type	1 Movable type, under the stage	3 Fixed type under the stage	2 Fixed type inside the celling	2 Eixed type	2 Fixed type For example; SHURE VA301-S type	2 Movable type	2 Movable type	2 Movable type	DRG NO. 2–17 SPEAKER LAYOUT TABLE
SPEAKER LAYOUT TABLE	TUTTO	TOW	MOT	IOW	TOW	IOW	TOW	TOW	15W	MOOT	MOOT	SOW	TOOW	TOW	LOW	
	8	٩					@		6		@					B XLR-4
	PLACE	VIP ROOM	RECEPTION ROOM	POYER	MAIN LOBBY	CANTEEN	WAITING ROOM	BACK STAGE	FRONT STAGE	PROSCENTUM	SIDE STAGE	UPPER STAGE	STAGE SIDE	STAGE SIDE	ON THE STAGE	с-л тх
	SIGN	A	B	c	D	алан С. С. С	64	U	Ħ	Ť	J	K	L	W	N	

W	leight Head	
Pr	oduction No.	
No.	Description Q'ty	Material Specification
1	Weight stopper 1	FC 7kg
2	Stopper bolt 2	8mm x 30

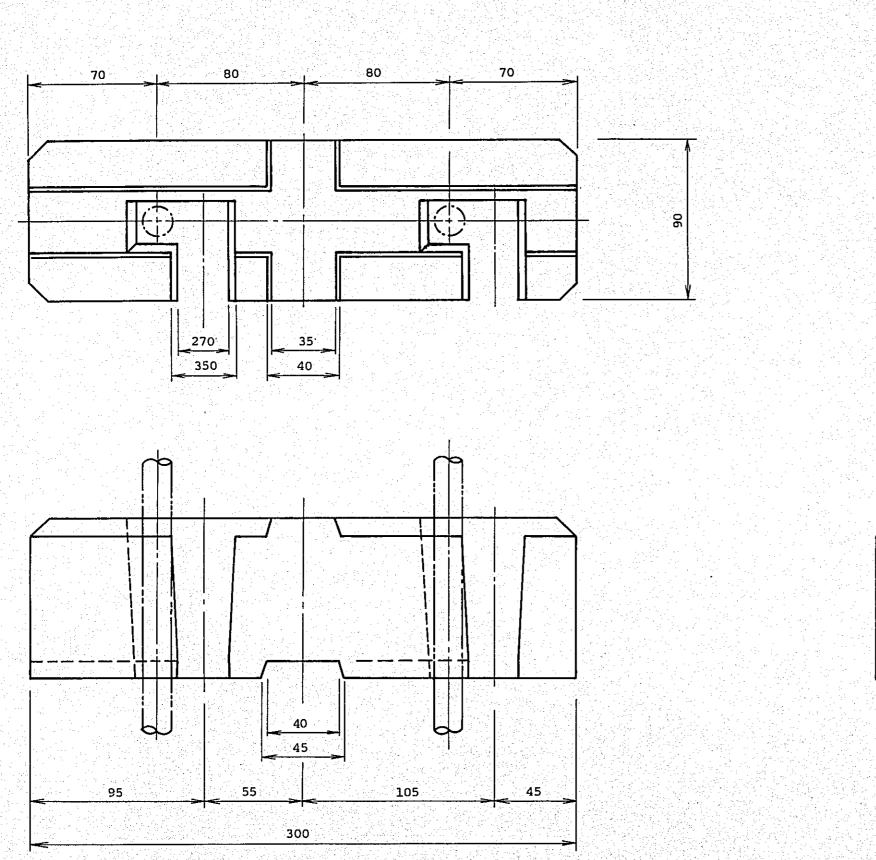


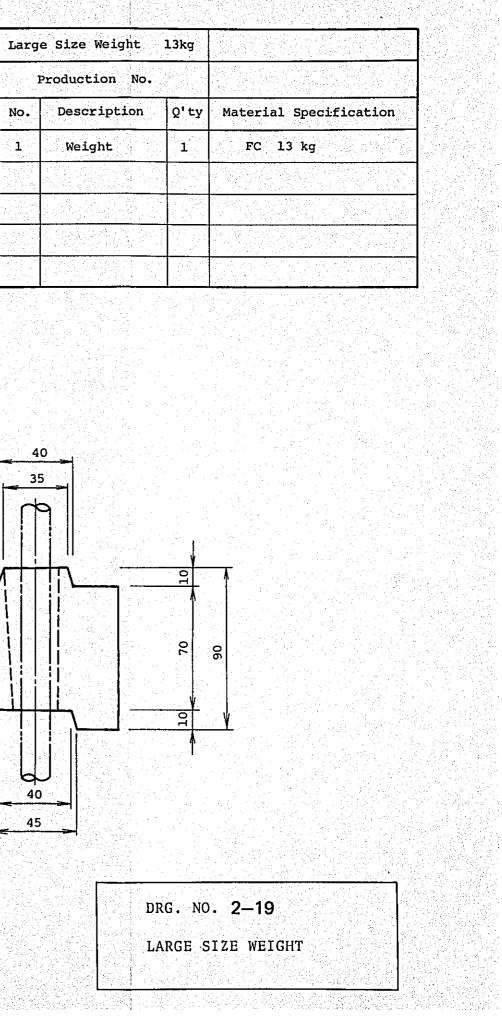


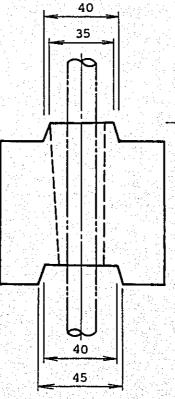


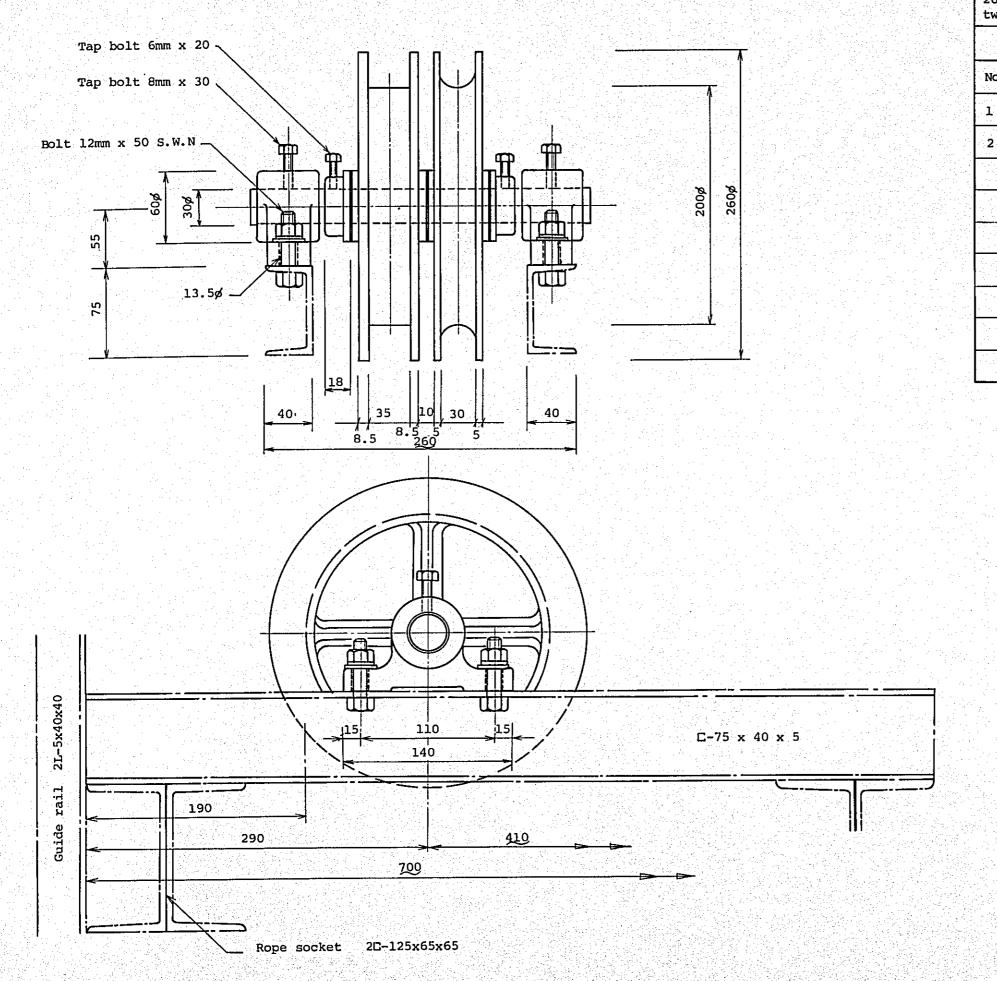
DRG NO. 2-18 WEIGHT HEAD

 $\{i_i\}_{i \in \mathbb{N}}$







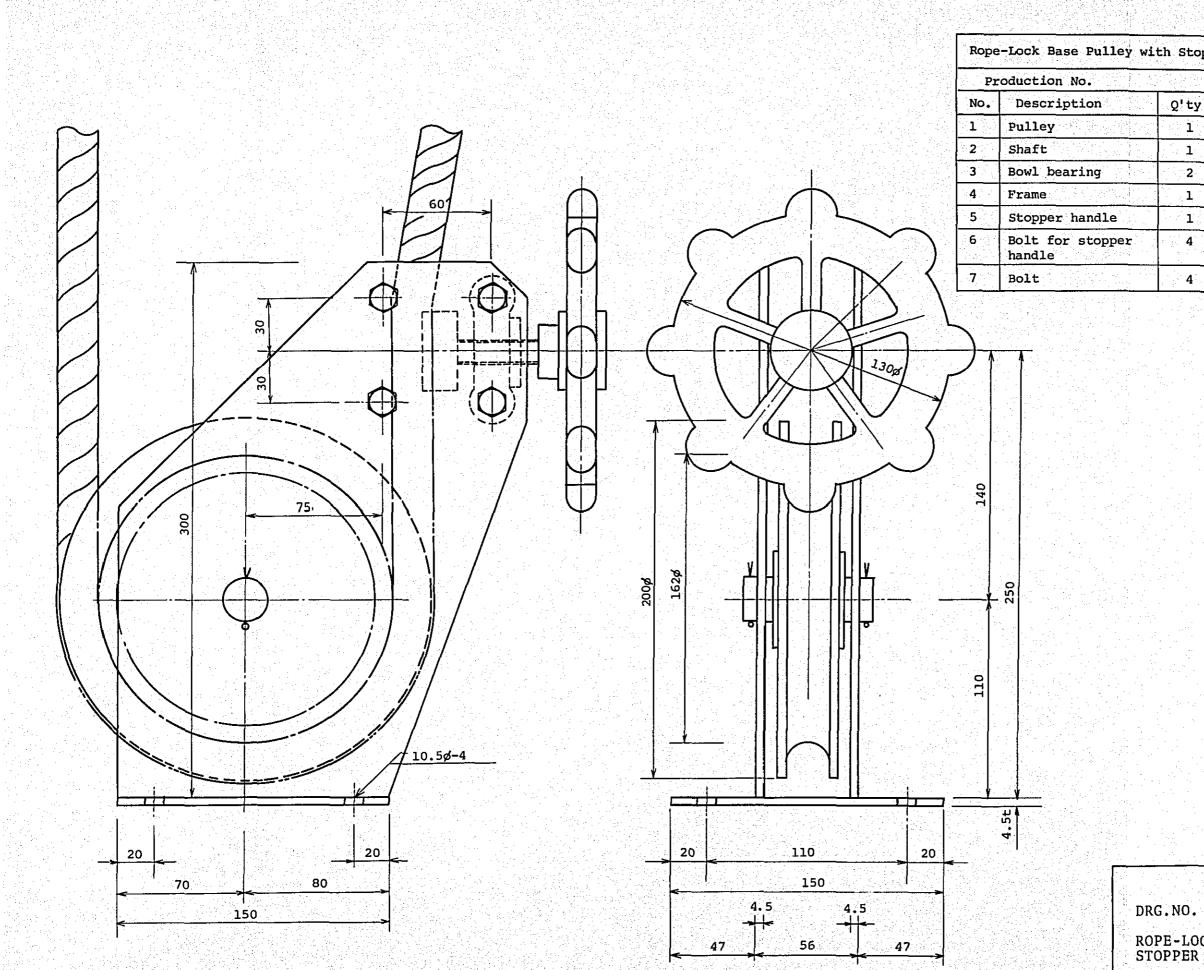


260 Round Agnel Rope-I two steps Speed Pulley Production No. Description NO. 1 Pulley 2 Pulley

DRG. NO. 2-20

• •		
	Lock Y	
-		
	Q'ty	Material Specification
-	1	FC 260ø angle gutter type
	1	FC 260ø round gutter type

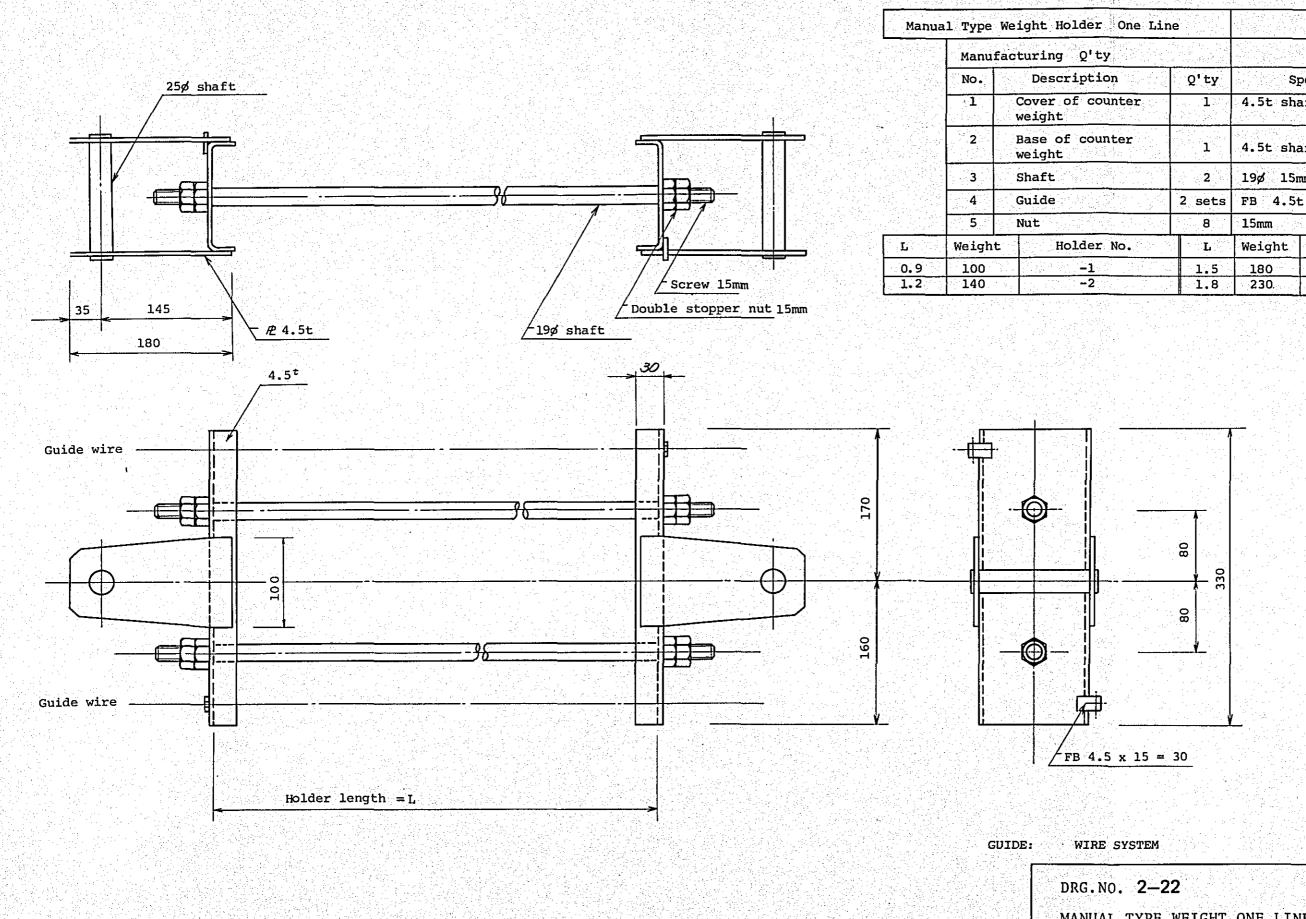
260 ROUND ANGLE ROPE-LOCK TWO STEPS SPEED PULLEY



h Stop	per	
Q'ty	Material Specification	
1	FC 200¢ round gutter type	
1	SSB 25ø with stopper pin	
2	6205 (25ø)	÷
1	R4.5 Press finished	
1	FC 130ø	
4	8mm 65 coller switch	
4	10mm	

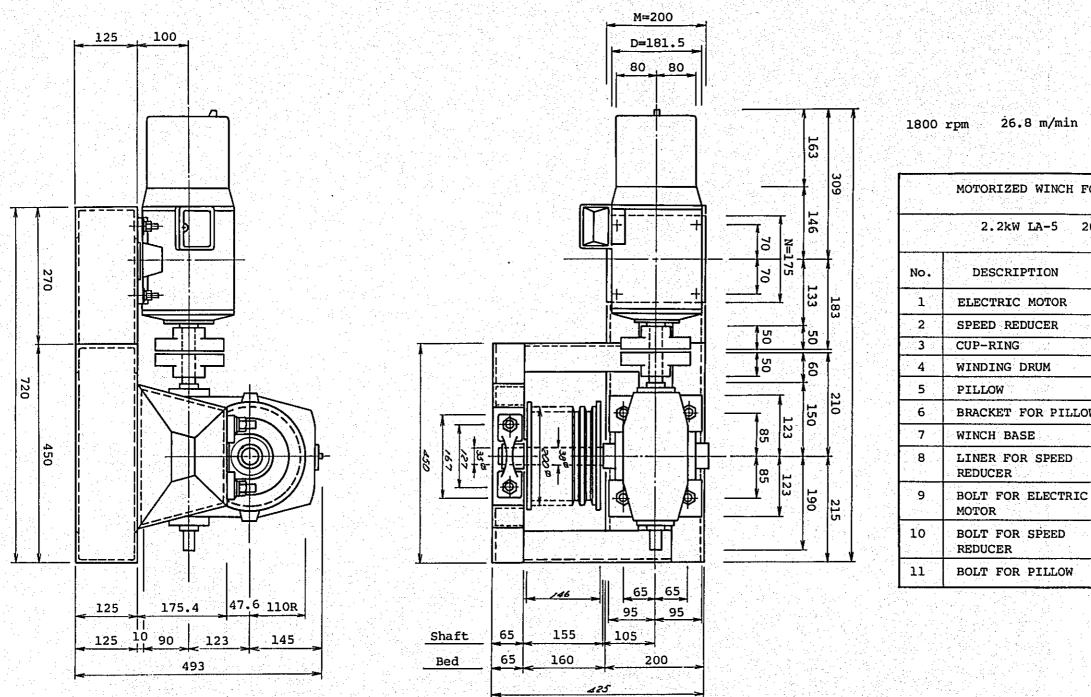
DRG.NO. 2-21

ROPE-LOCK BASE PULLEY WITH



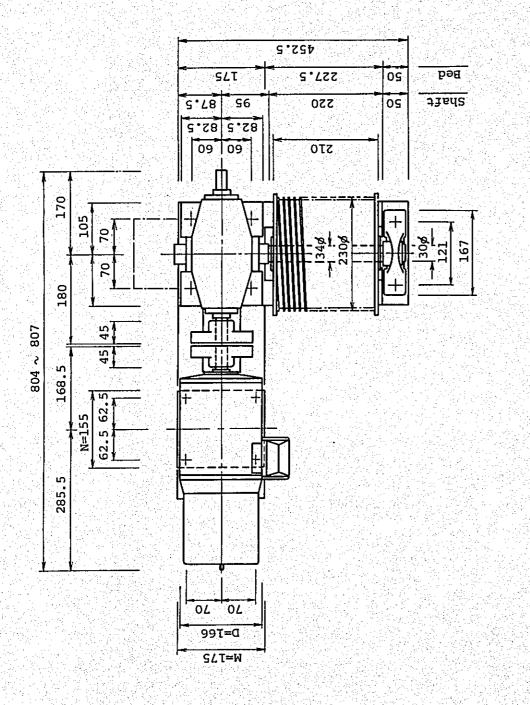
		n en ser de la ser el Mi	그는 영제는 것 같은 것 같
Lir	ie		
	Q'ty	S	pecification
	1	4.5t sha	aft 25ø
	1	4.5t sha	aft 25ø
	2	19ø 15r	am
	2 sets	FB 4.5	: x 15t x L30
in de	8	15mm	
	L	Weight	Holder
- -	1.5	180	-3
	1.8	230.	- 4 (1996)

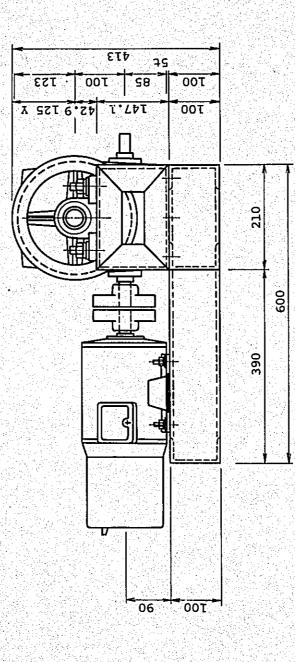
MANUAL TYPE WEIGHT ONE LINE

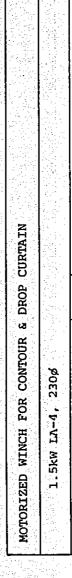


· . ·	at de la	
FOR	R STAG	E CURTAIN
200)ø	
	Ω' ΤΥ	SPECIFICATION
	1	220V 2.2KW
	1	LA-5 [] S1=27ø S2=38ø
	1	CL-140 B=63 L=50
	1	Tention 200ø
	1	UCP 207 (35¢)
W.	1	L-6x65x65
	1	I-125x65x6
	1	10 m/mT
•	4	10 m/mø
	4	15mm
· .	2	15mm FOR BRACKET 12MMx3
		n an an Anna an Anna an Anna an

DRG.NO. 2-23 MOTORIZED WINCH FOR DRAW CURTAIN





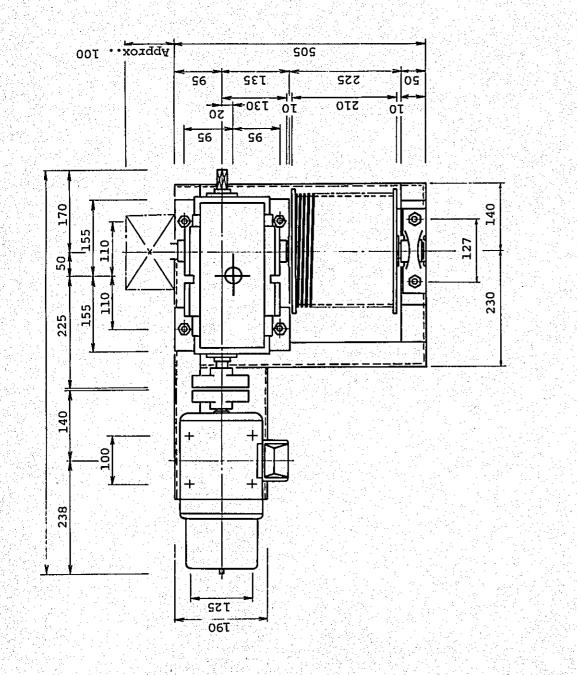


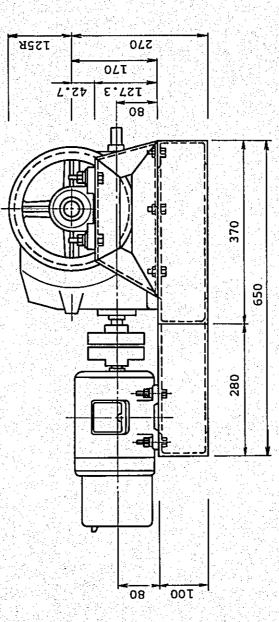
26m/min

1800 rpm

DRG. NO. 2-24 MOTORIZED WINCH FOR DROP & COUNTOUR CURTAIN

DESCRIPTIONQ'TYSPECIFICATIONELECTRIC MOTOR1220V 1.5kW SA2 DROP PREVENTING TYPESELEDUCER1220V 1.5kW SA2 DROP PREVENTING TYPESPEED REDUCER11234øCUP-RING1CL-125 B=50ø, L=45WINDING DRUM1230øPILLOW1230øBRACKET FOR PILLOW1L-4450x50LINER FOR PILLOW1L-4450x50LINER FOR SPEED1L-100 x 50 x 50BOLT FOR SPEED REDUCER412mm (6) 12mm x 3BOLT FOR SPEED REDUCER412mm (6) 12mm x 3					بنينم	<u> </u>	-	_					
RIPTION C MOTOR EDUCER BUCER FOR FILLOW WITCH ASE OR SPEED OR SPEED R ELECTRIC MOTOR R SPEED REDUCER R PILLOW	SPECIFICATION	220V 1.5kW SA2 DROP PREVENTING TYPE S=24ø	LA-4 [CL-125 B=50%, L=45 and Control of		UCP. 206x (30%) 22 (1994 1994 1994 1994 1994 1994		WORM GEAR REDUCER - Contraction of the second second	5.L-100 x 50 x 50 Y 50		a is Sump osition to the state of the state	12mm . (6) "12mm ∞ 3. ≊ ∞ 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
RIPTION C MOTOR EDUCER DRUM FOR PILLOW MITCH ASE OR SPEED OR SPEED R ELECTRIC MOTOR R SPEED REDUCER	Q'TY	1 (A	1	1	. 1	1	1	1. T	1 .		4	4	2
		MOTOR	JUCER		DRUM		FOR PILLOW	WITCH	ASE	OR SPEED	R ELECTRIC MOTOR	R SPEED REDUCER	R PILLOW
N0. 22 4 8 8 8 8 11 11 11 11		ELECTRIC	SPEED REI	CUP-RING	MINDING	DITTOM	BRACKET	S LIWIT	WINCH BASE	LINER FO REDUCER			BOLT FO





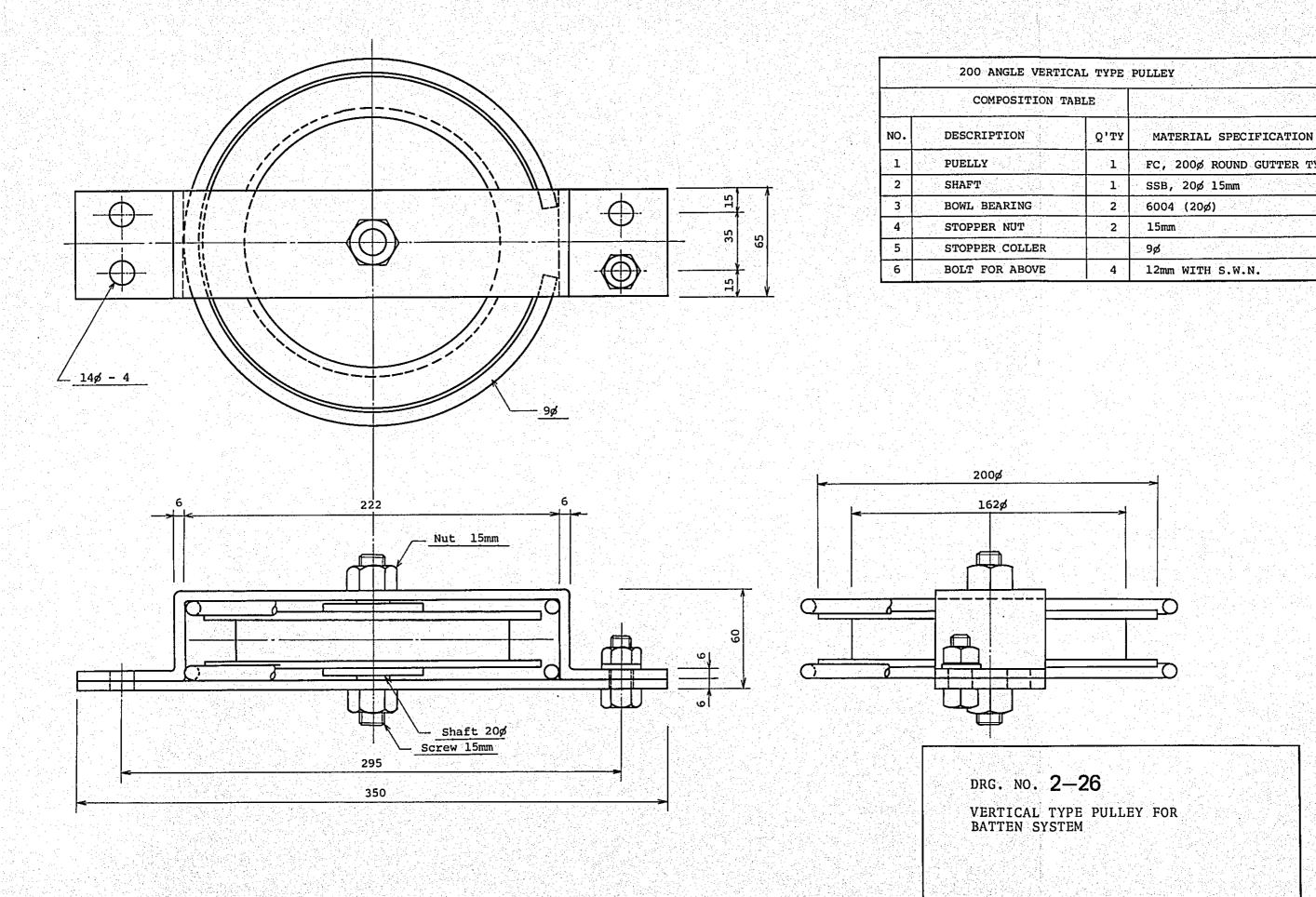
1800 rpm

MOTORIZED WINCH 0.75KW								
	0.75KW 230ø							
NO.	DESCRIPTION	Q'TY	SPECIFICATION					
1	ELECTRIC MOTOR	1	3ø220V 0.75KW SA2 GROP PREVENTION TYPE WITH BREAKER					
2	SPEED REDUCER	1	LD-3 S1=23Ø S2=36Ø					
3	DRUM	1	230ø x 210					
4	PILLOW	1	UCP 207 (35ø)					
5	CUP-RING	1	CL-112					
6	BASE	1	I-100x50x5					
7	BRACKET	- 1	L-4x50x50					
8	LIMIT SWITCH	1	WORM SPEED REDUCER SWITCHING OPERATION					

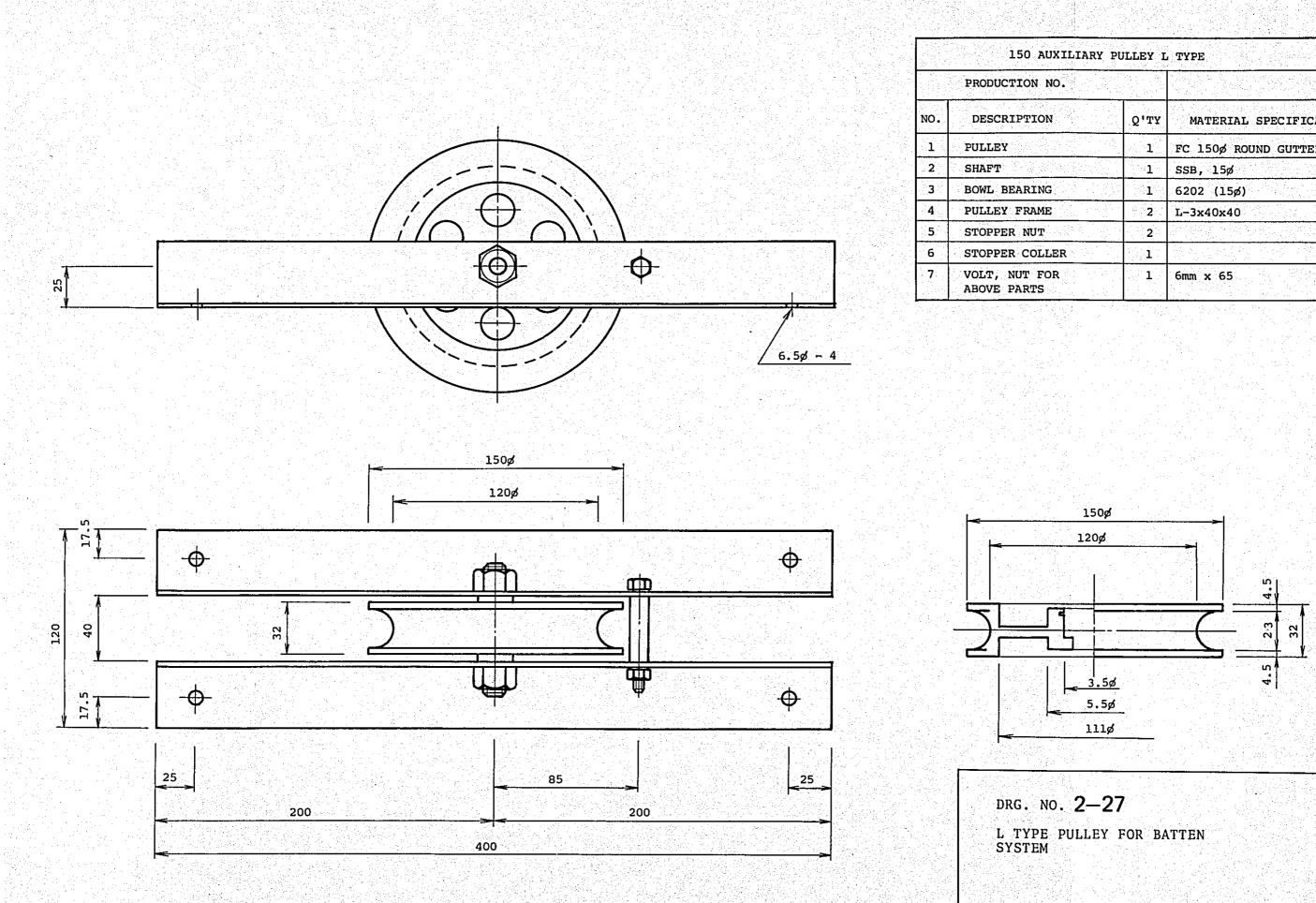
6.5 m/min

DRG. NO. 2-25

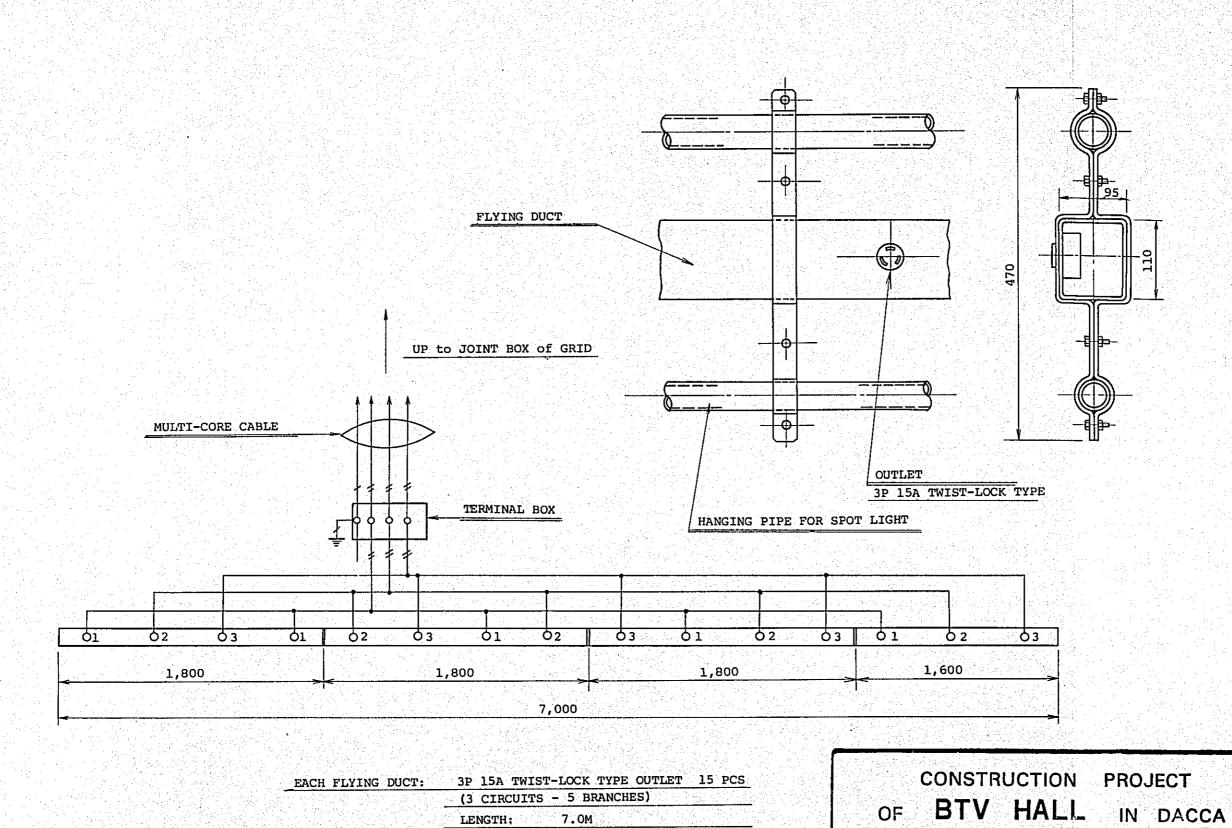
MOTORIZED WINCH FOR LIGHTING BATTEN



-	<u>1 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 </u>	internet i presi i la contracte de la trava de plica terra de la contracte.
AI	, TYPE	PULLEY
BI	E	
	Q'TY	MATERIAL SPECIFICATION
	1	FC, 200ø ROUND GUTTER TYPE
	1	SSB, 20ø 15mm
	2	6004 (20ø)
	2	15mm
•		9ø
4. 1	4	12mm WITH S.W.N.



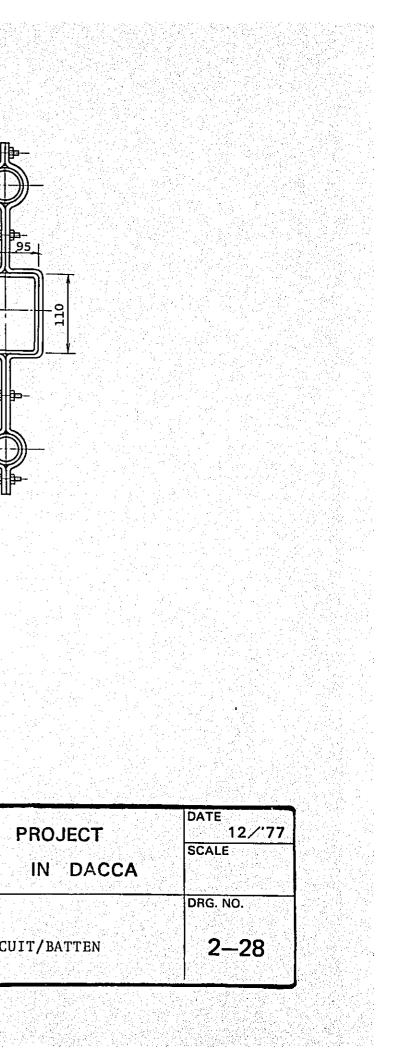
RY PULLEY L TYPE					
	Q'TY	MATERIAL SPECIFICATION			
	1	FC 150¢ ROUND GUTTER TYPE			
	1	SSB, 15ø			
	1	6202 (15ø)			
en die e e	2	L-3x40x40			
	2				
	1				
	1	6mm x 65			

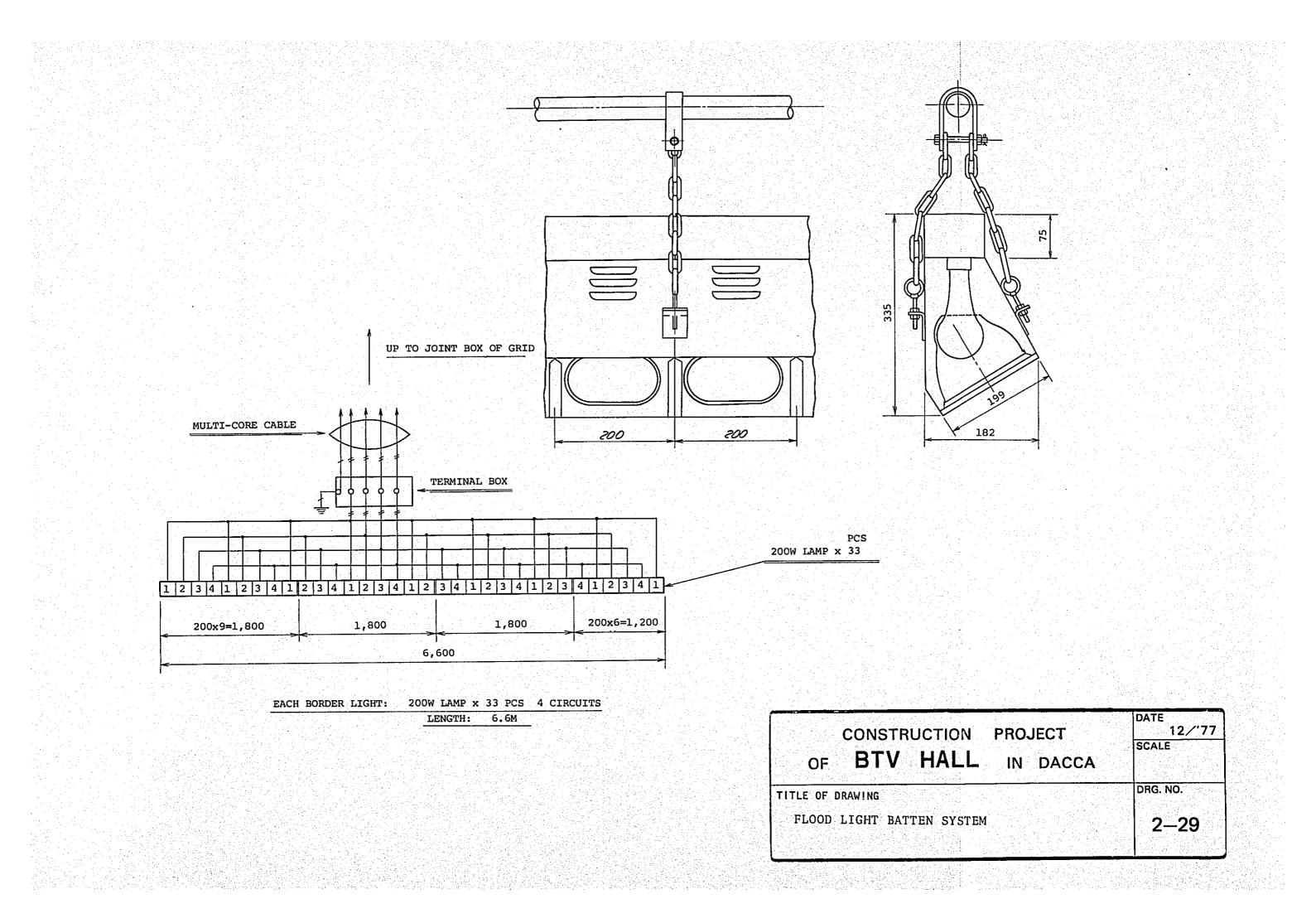


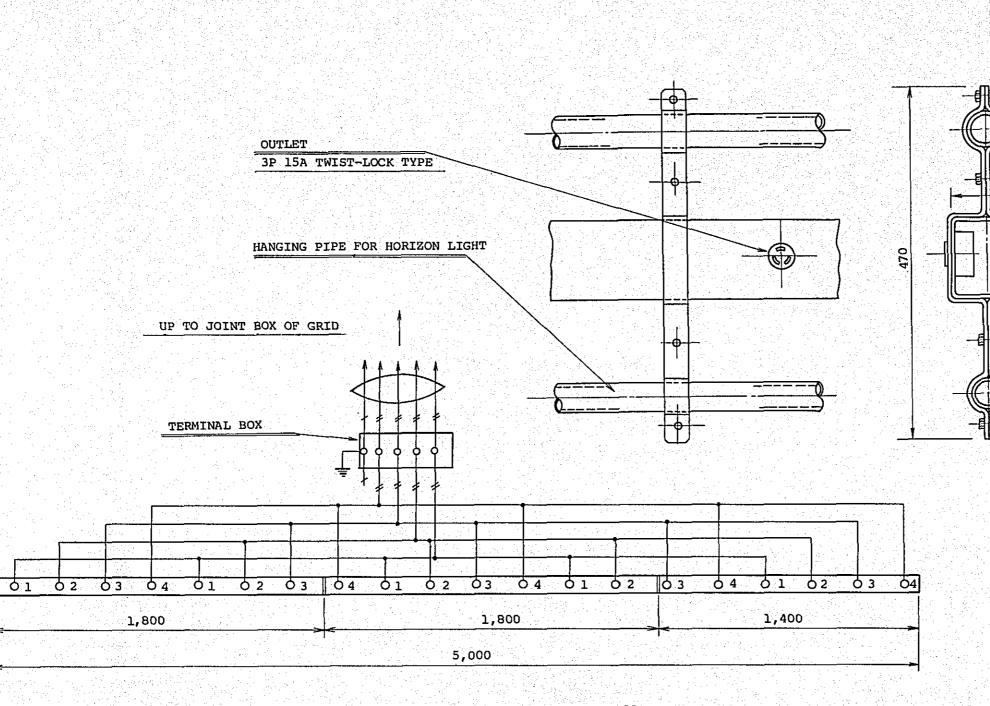
SPOT LIGHT CONCENT & CIRCUIT/BATTEN

TITLE OF DRAWING

LENGTH: 7.0M







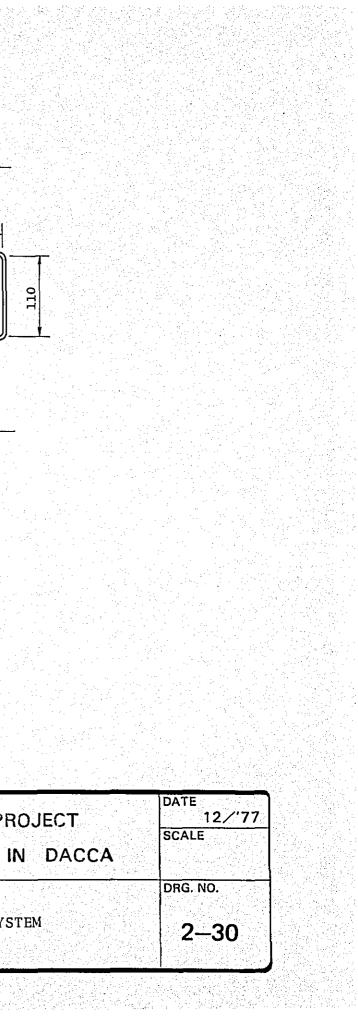
EACH FLYING DUCT: 3P 15A TWIST-LOCK TYPE OUTLET 20 PCS

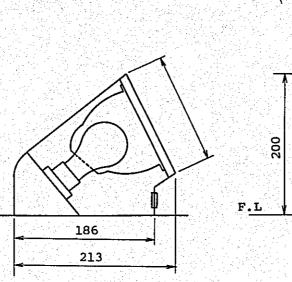
(4 CIRCUITS - 5 BRANCHES) LENGTH: 5.0M

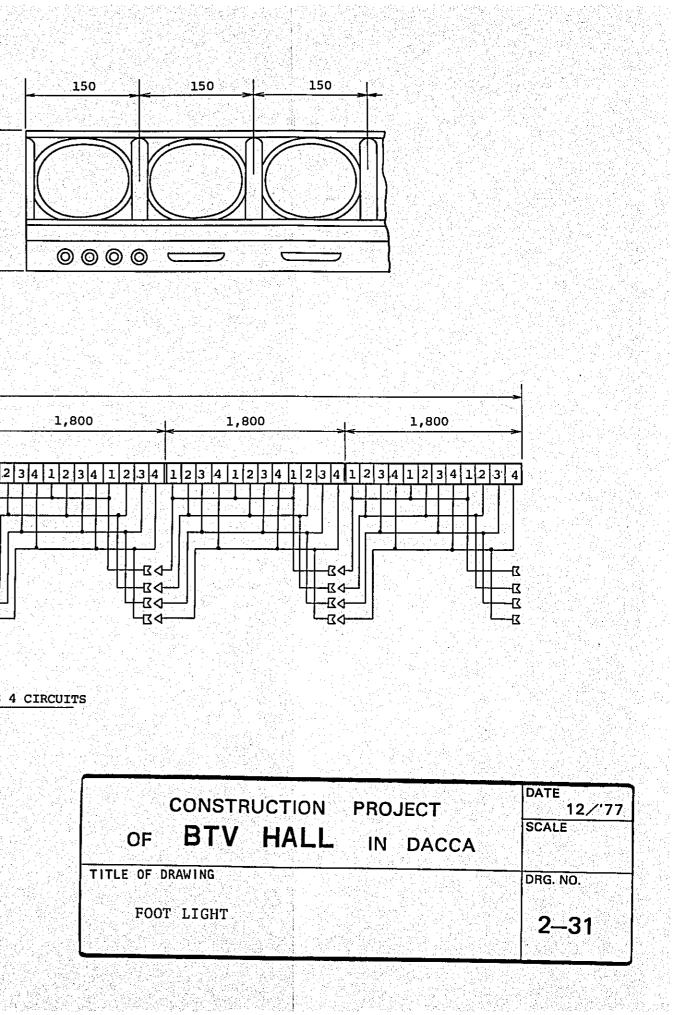
CONSTRUCTION PROJECT OF BTV HALL

TITLE OF DRAWING

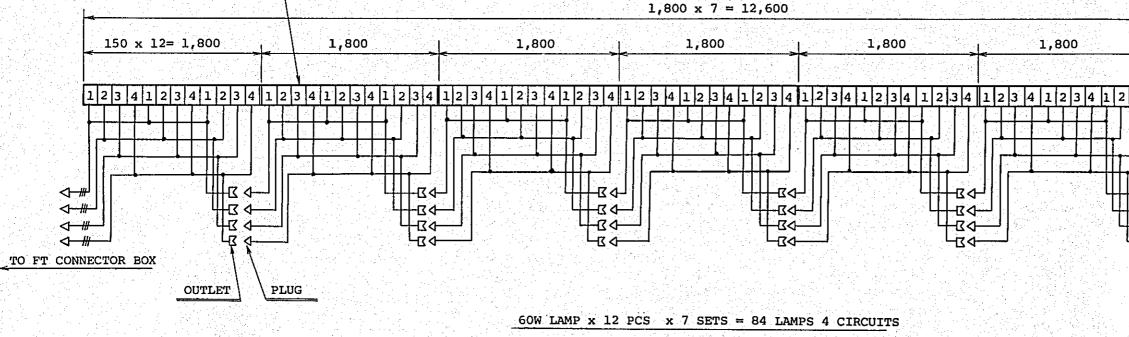
UPPER HORIZONTAL LIGHT SYSTEM



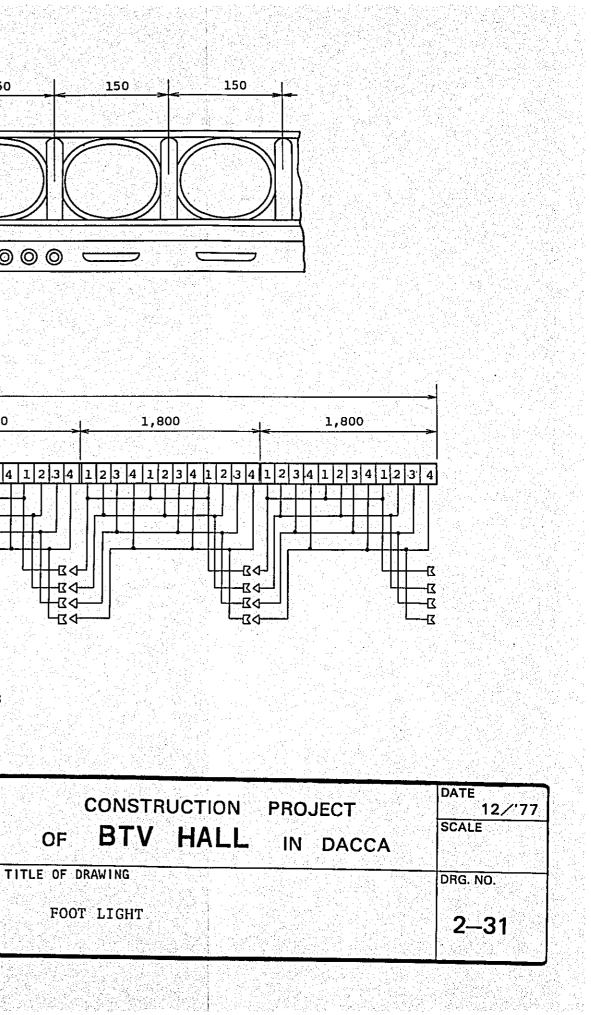




60W LAMP

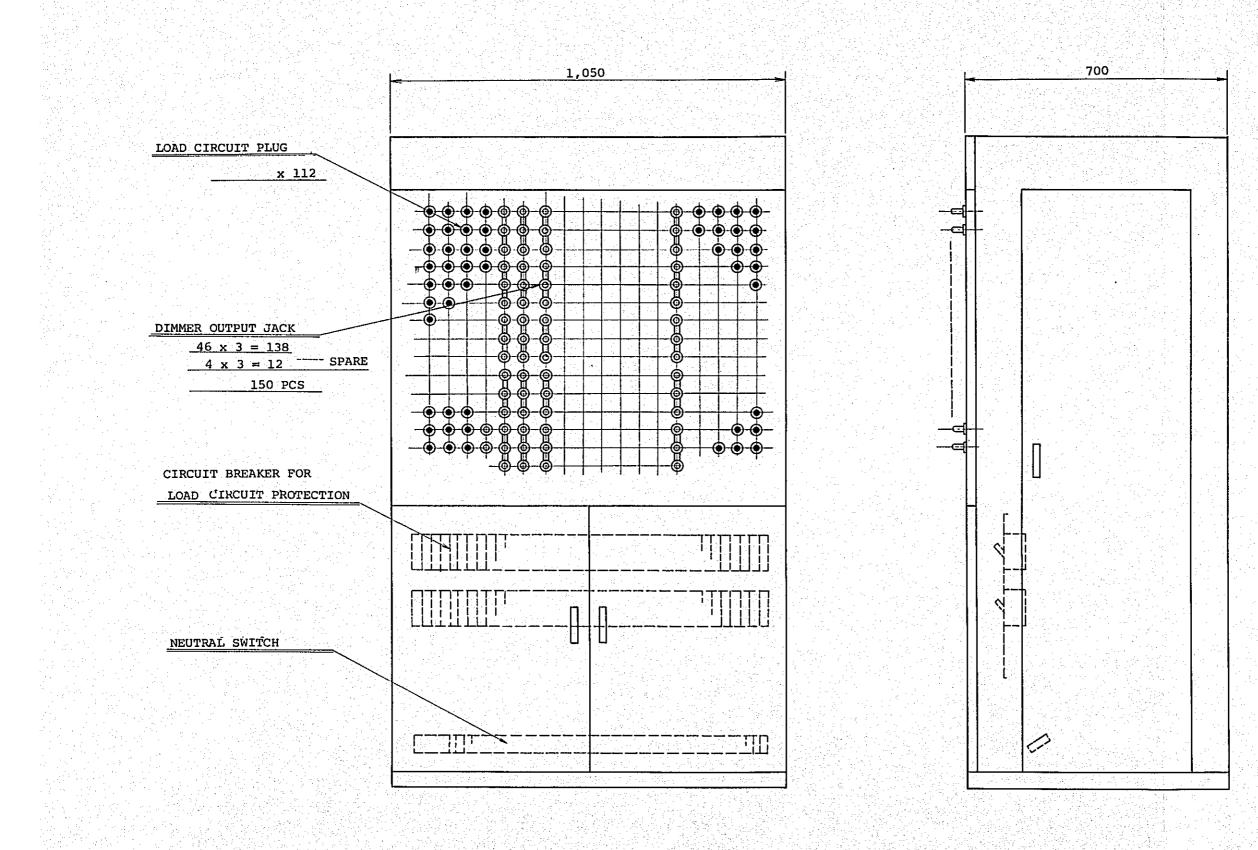


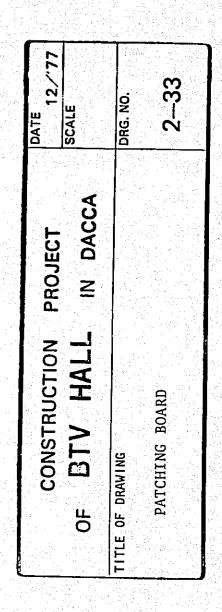
TOTAL LENGTH 12.6M

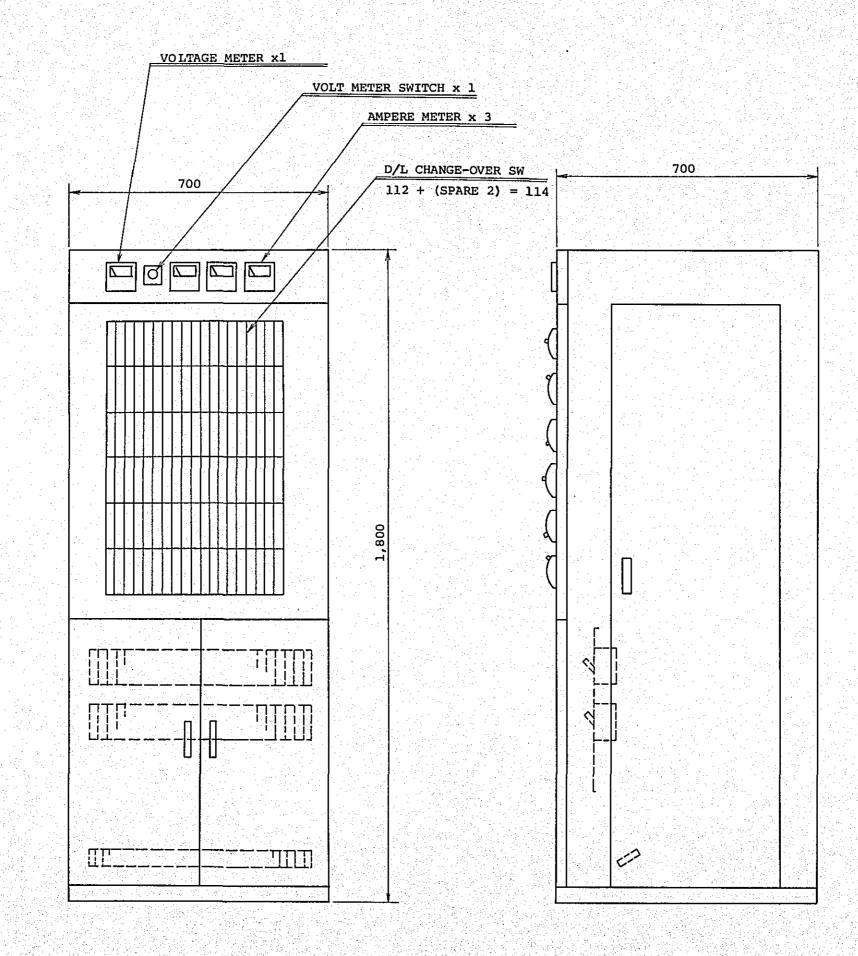


COOLING FAN	-	 1,25	0		 •		700	
	\searrow							
DIMMER UNIT 220V 6 - 10KW 50 UNITS								
FOR STAGE 48 UNITS 6kW x 48 UNITS								
FOR HOUSE LIGHT 10KW x 2 UNITS								
					1,800			
				<u>]</u>]				

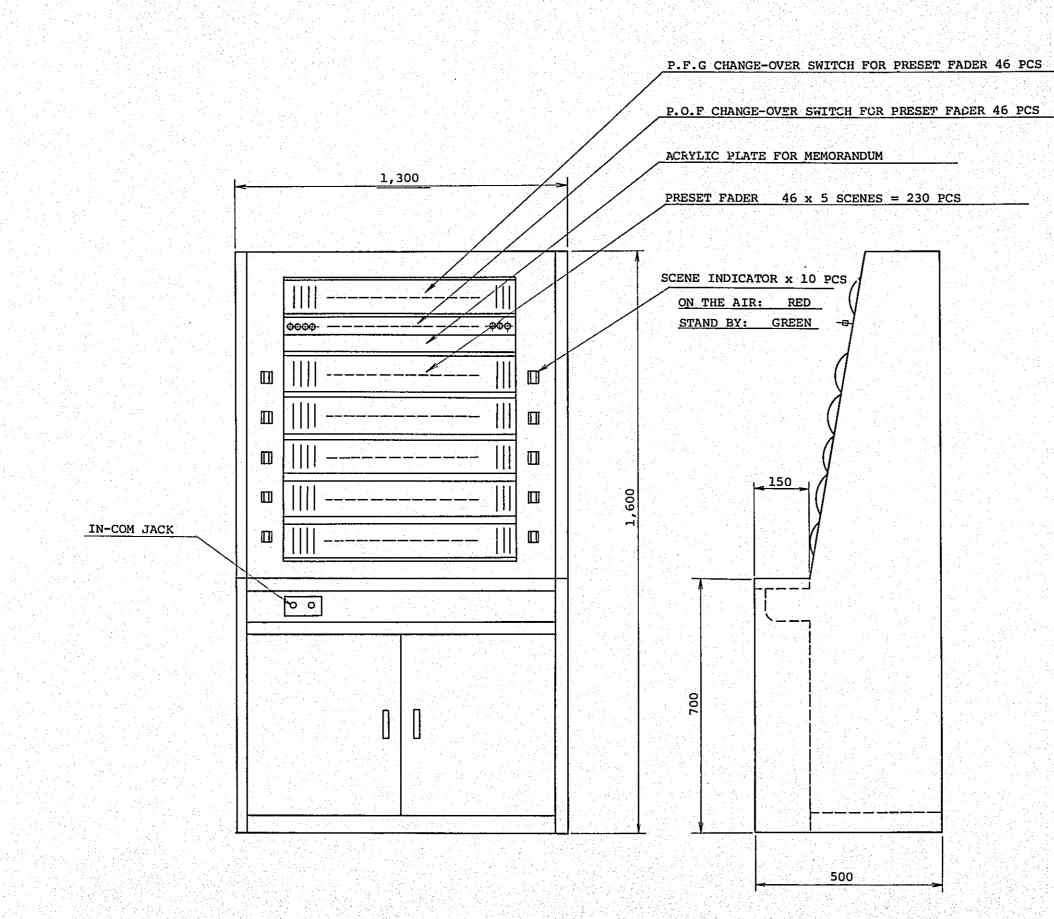
DRG. NO. 2-32 SCALI DAT IN DACCA PROJECT TITLE OF DRAWING OUTSIDE VIEW OF DIMMER UNIT RACK CONSTRUCTION BTV HALL ЧÖ



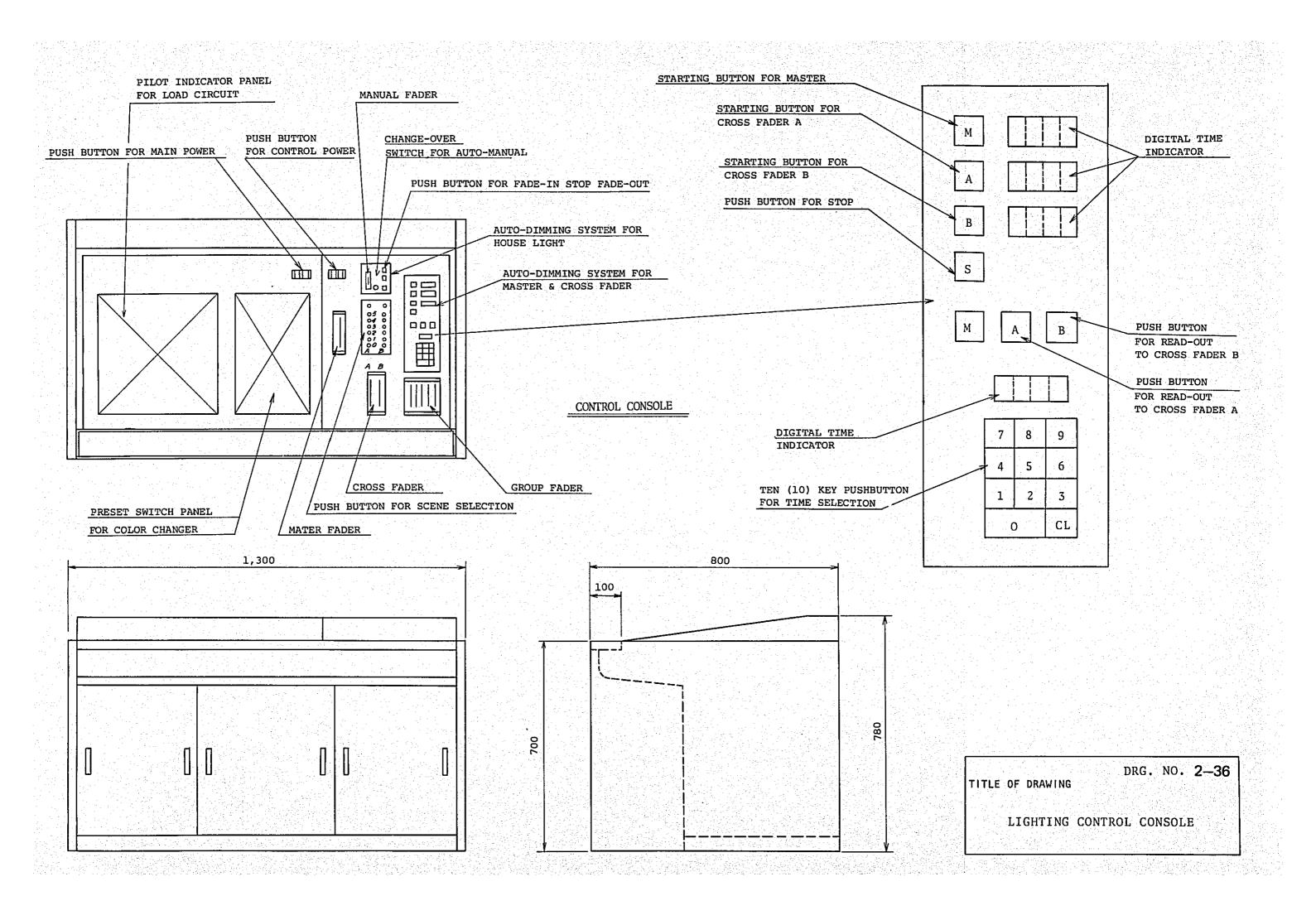


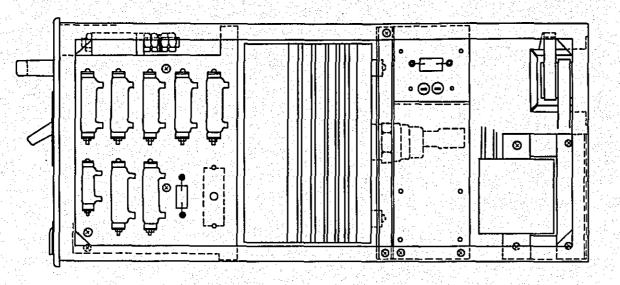


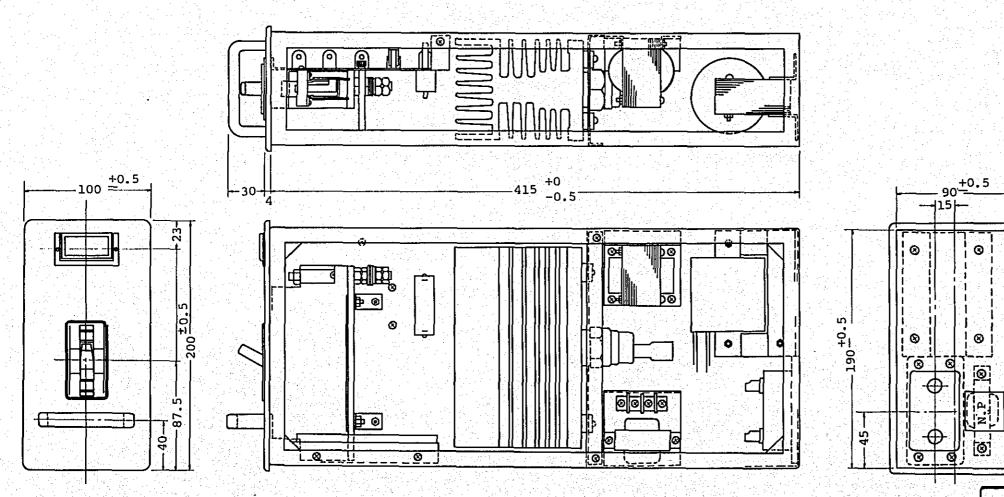
DATE 12/17 SCALE 2-34 DRG. NO. DACCA PROJECT Z CONSTRUCTION BTV HALL D/L SWITCH BOARD TITLE OF DRAWING Ю



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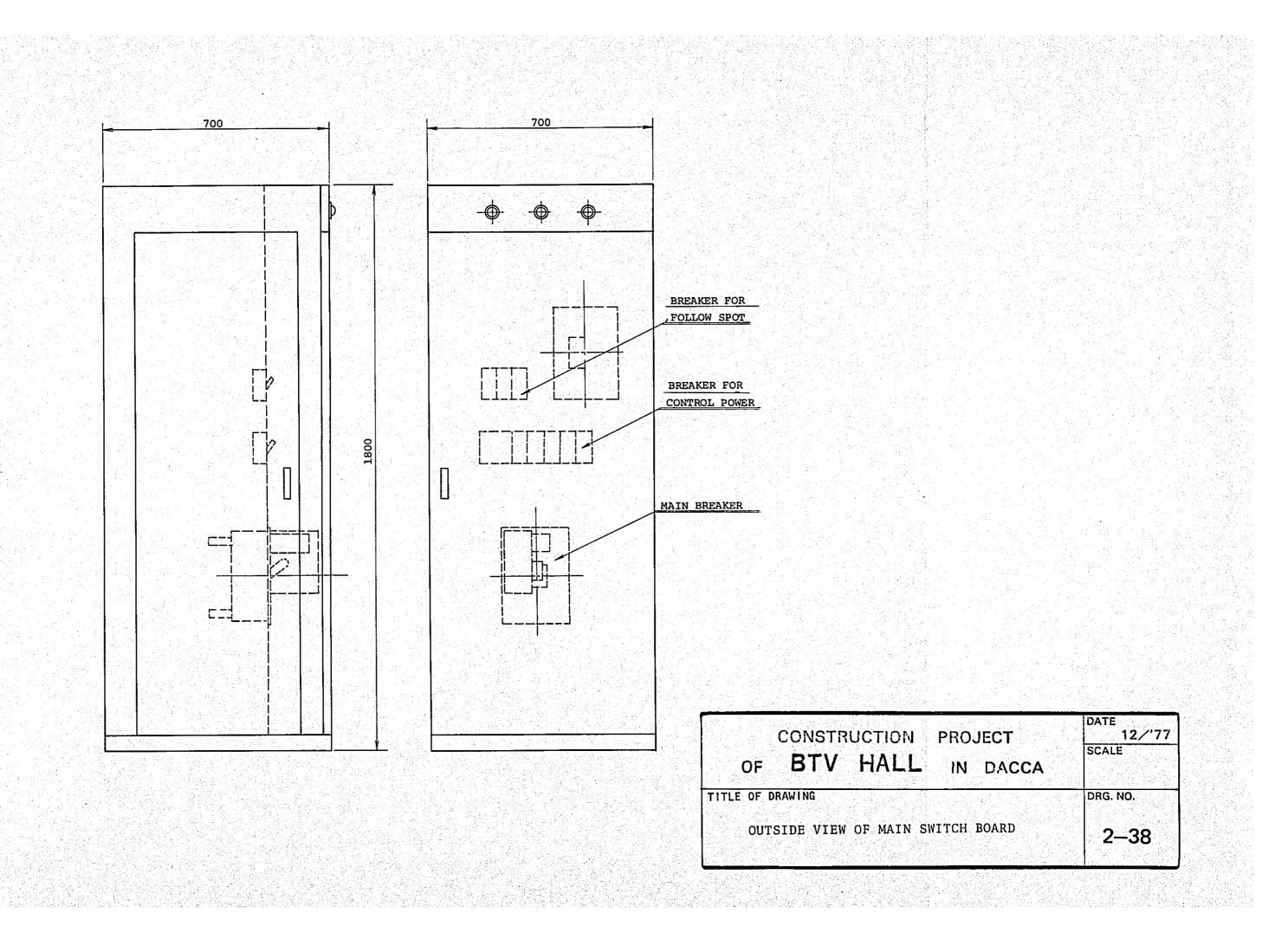


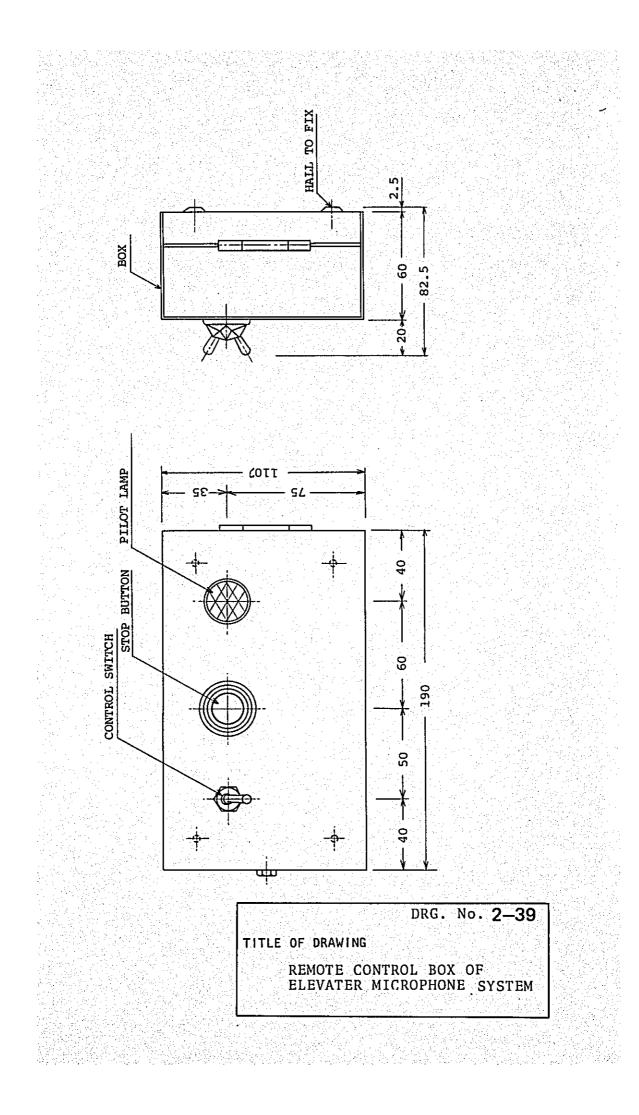


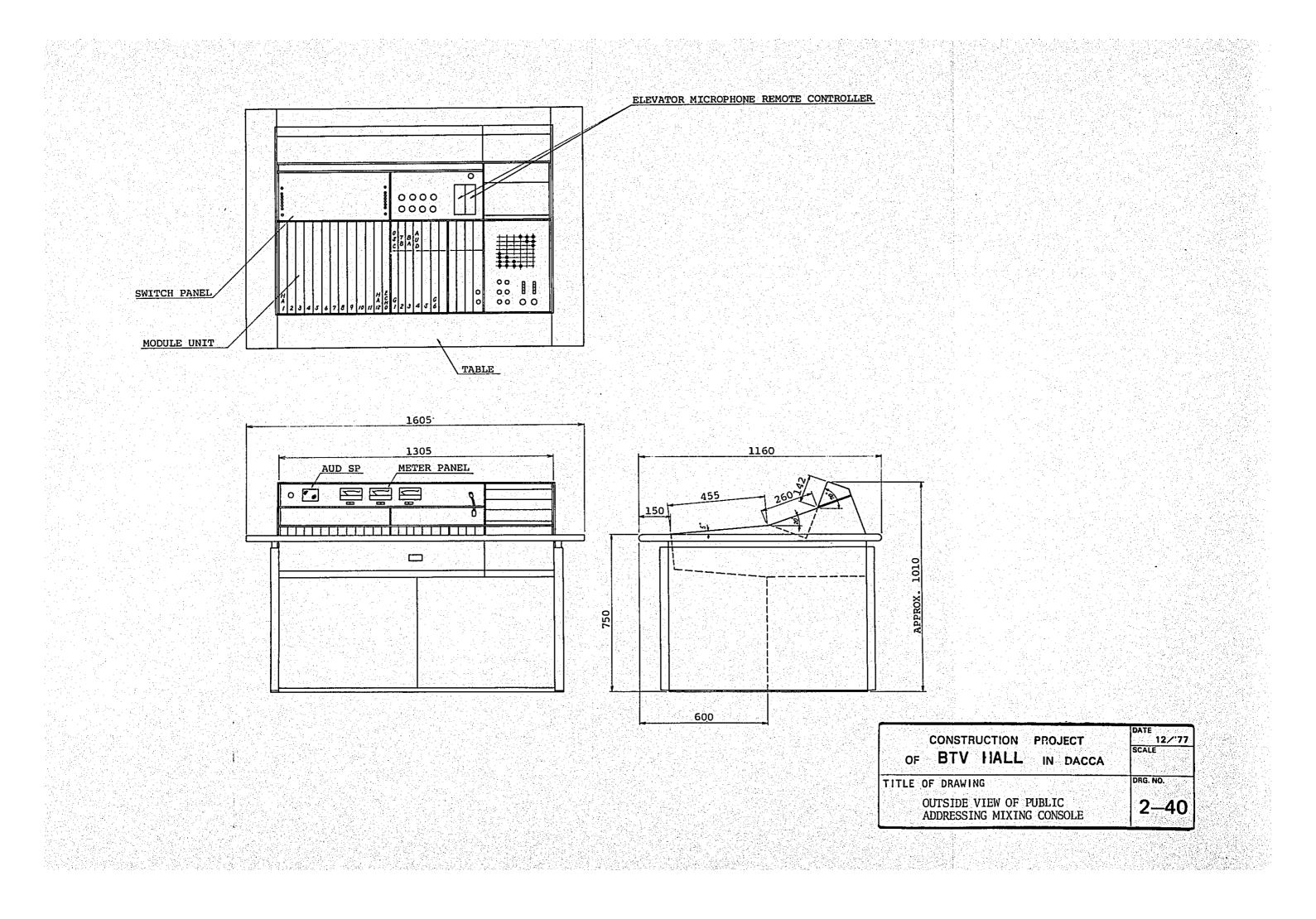


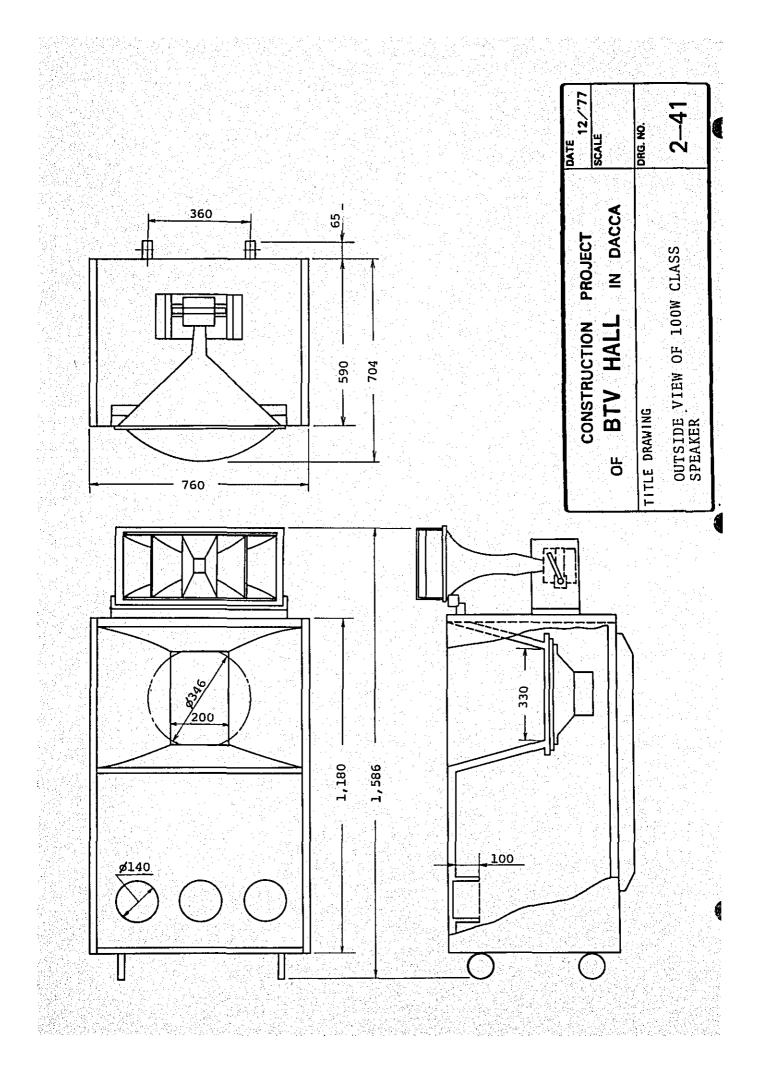
CONSTR OF BTV TITLE OF DRAWIN DIMMER

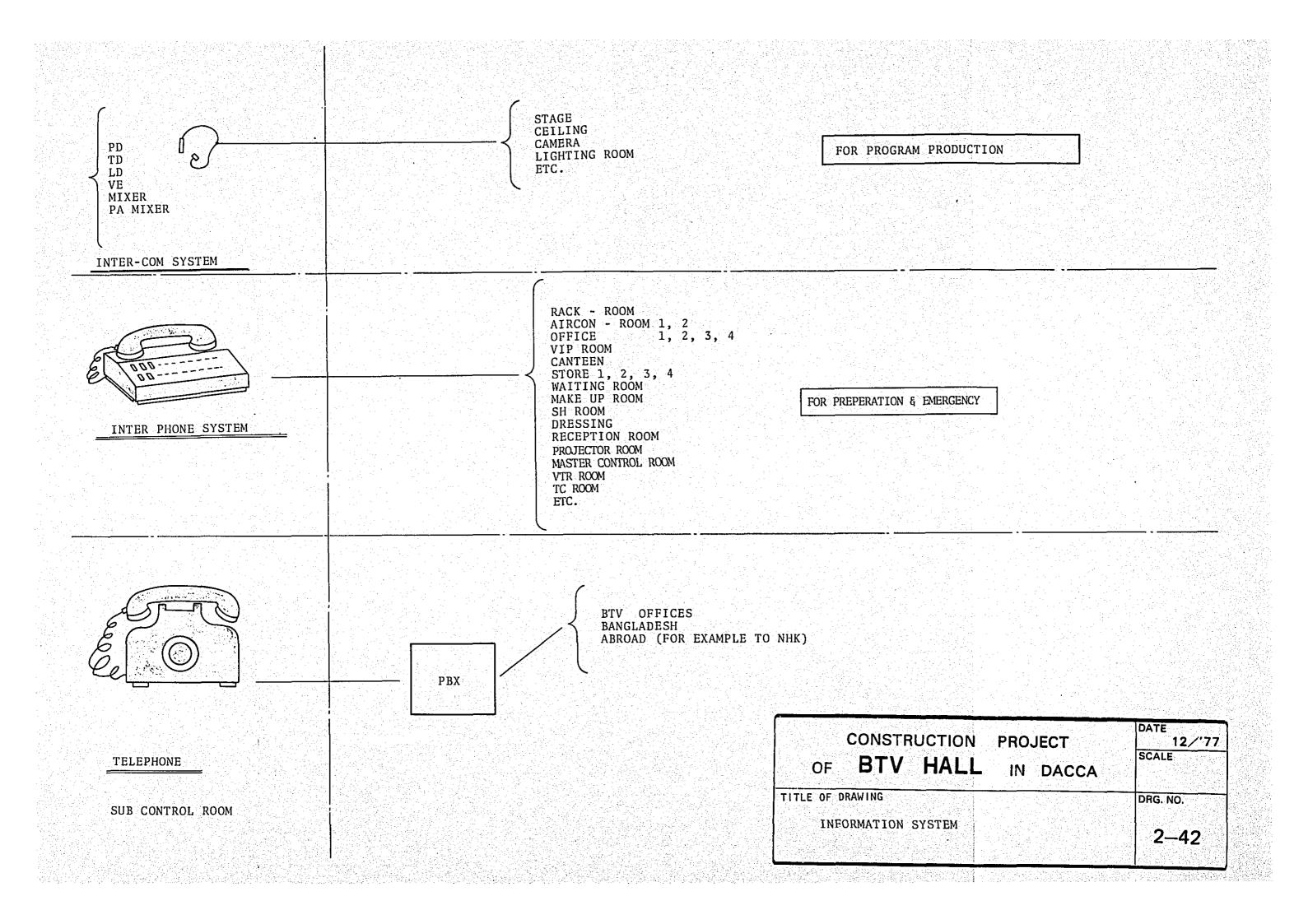
RUCTION PROJECT	DATE 12/'77
HALL IN DACCA	SCALE
ING UNIT	DRG. NO. 237

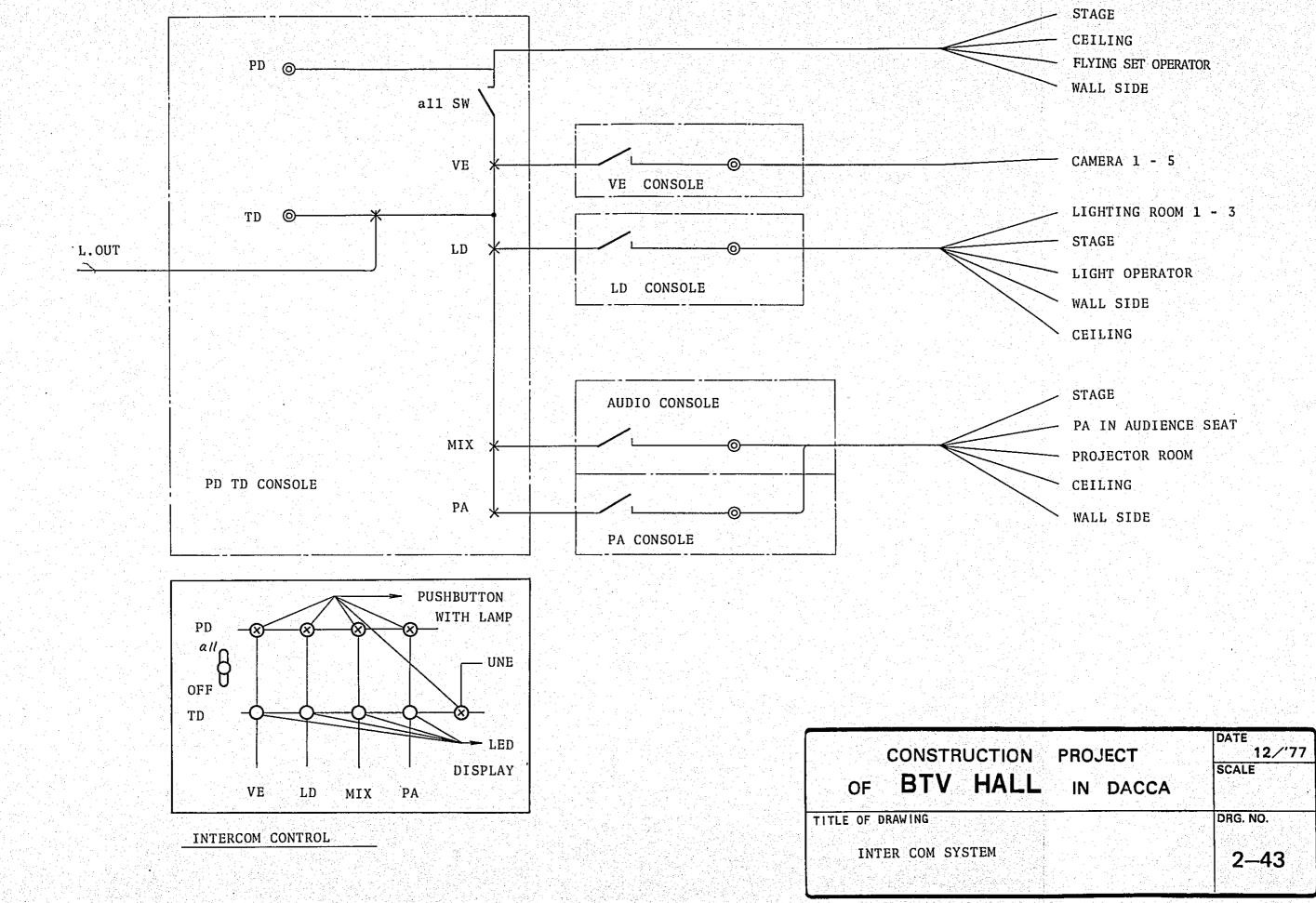


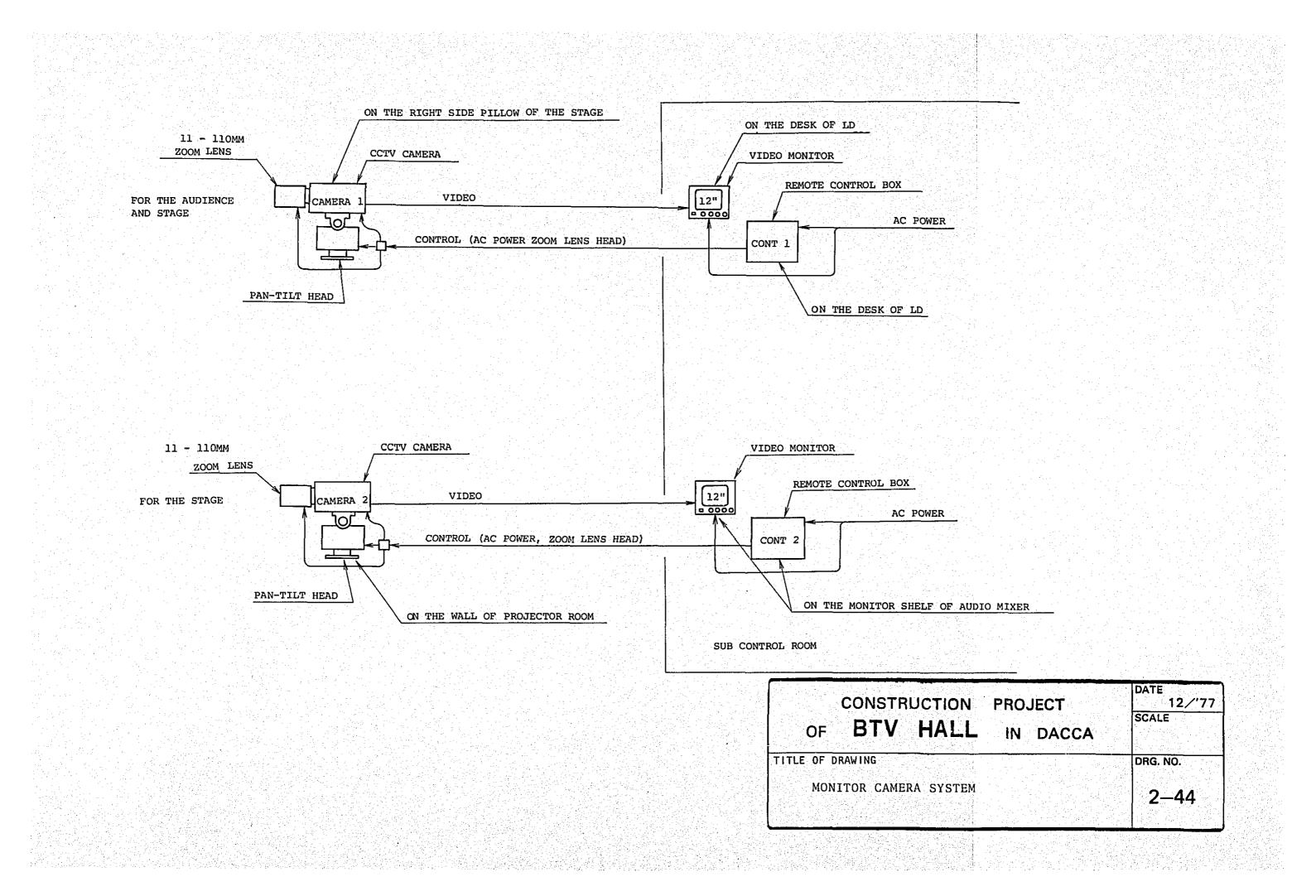


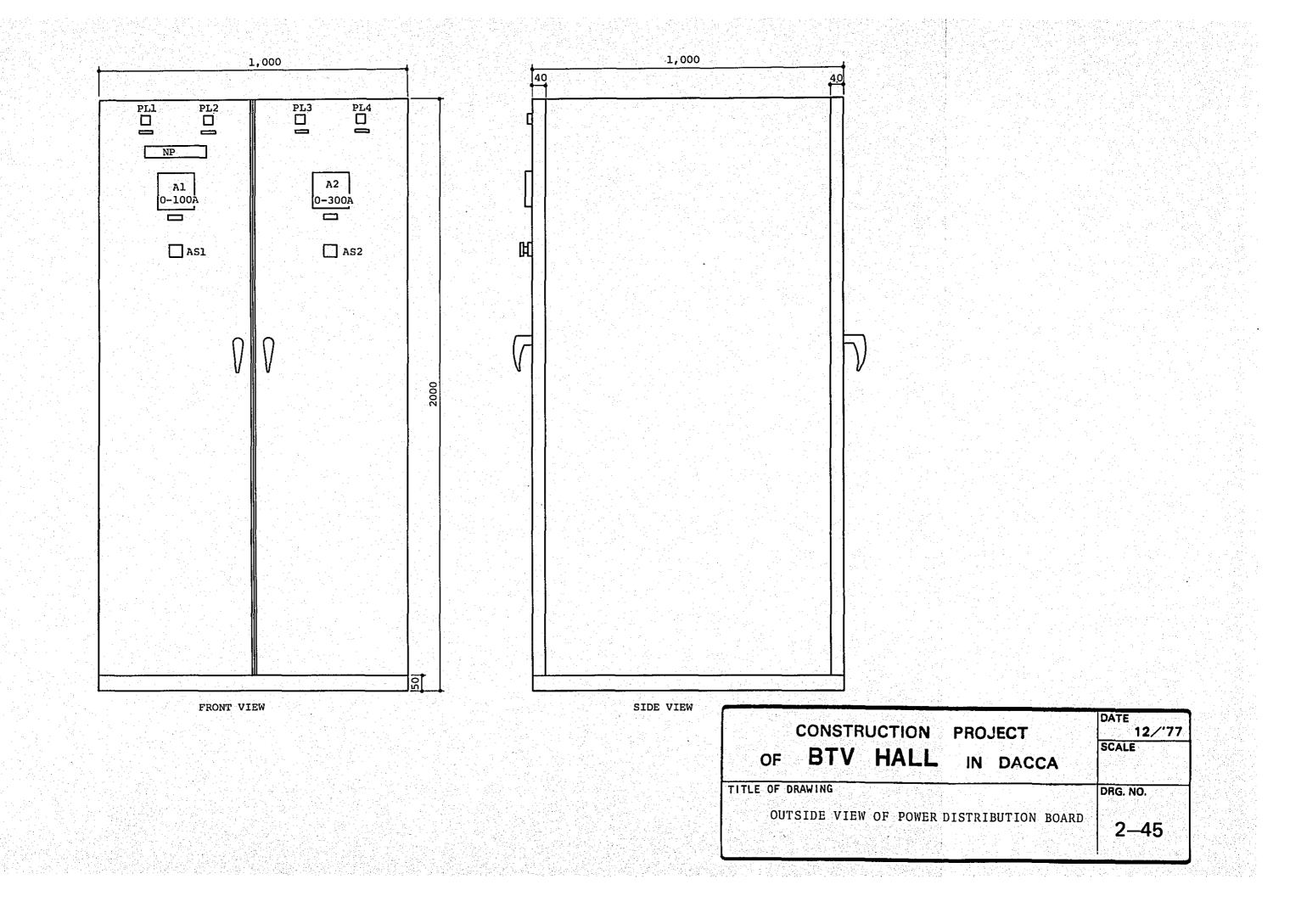


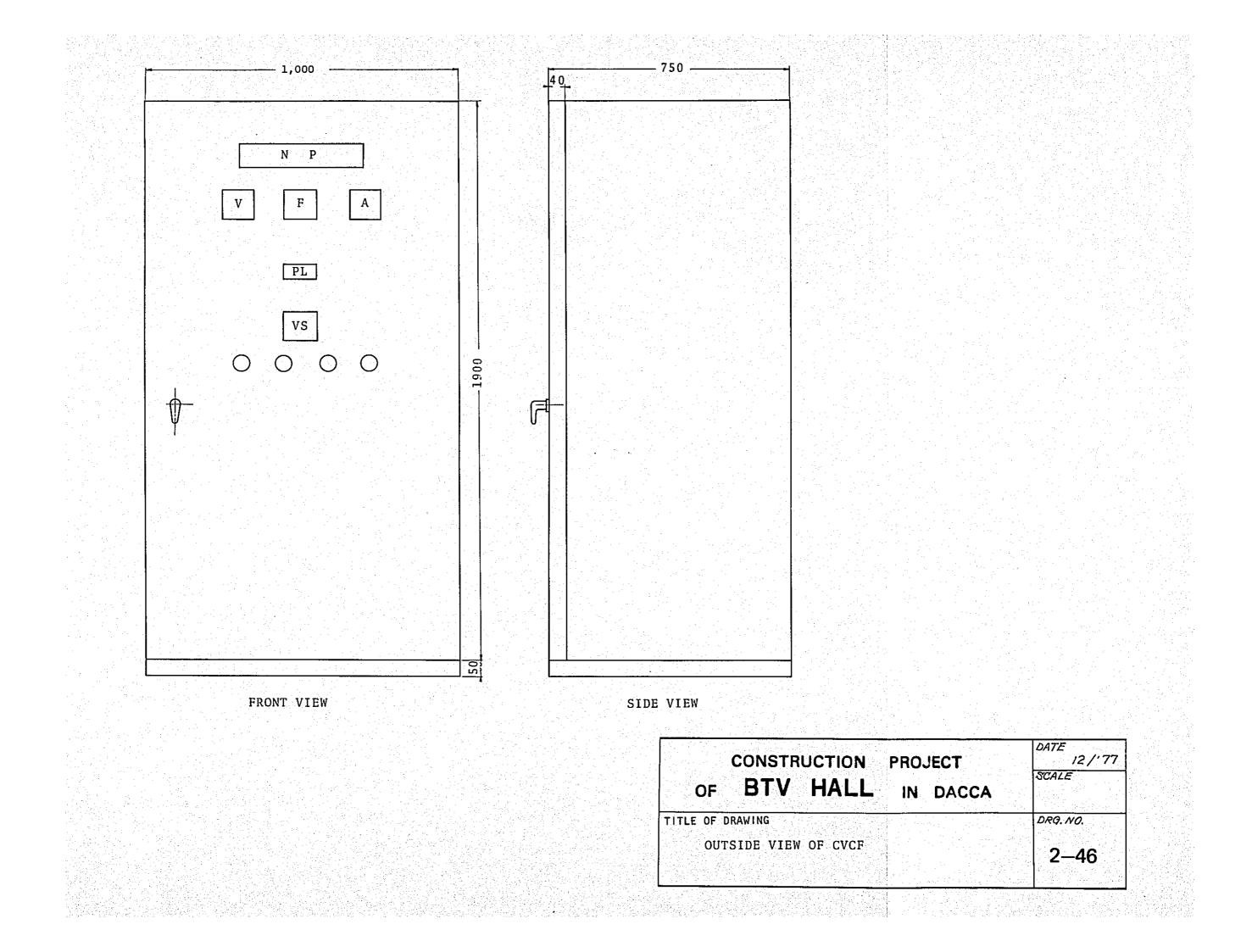


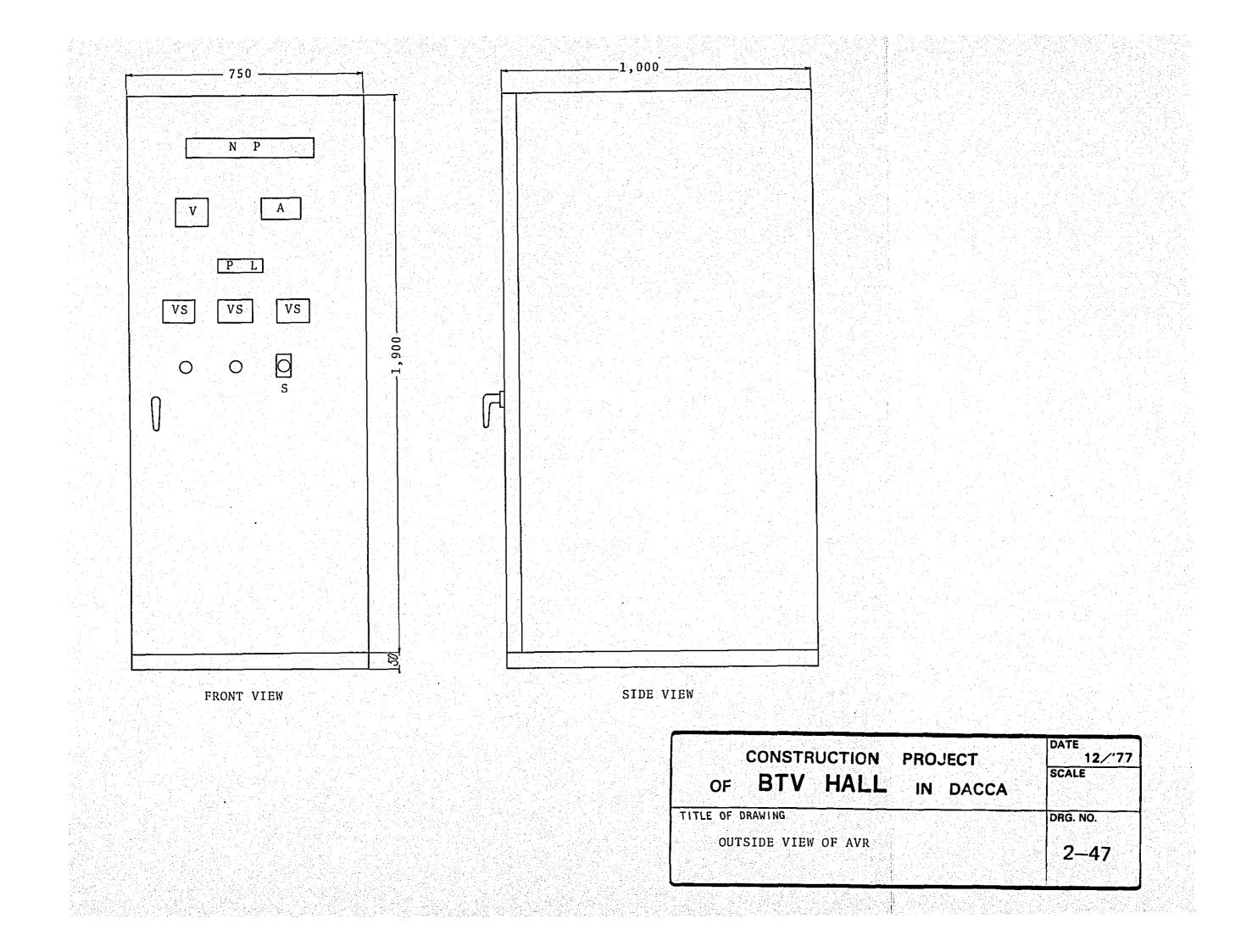


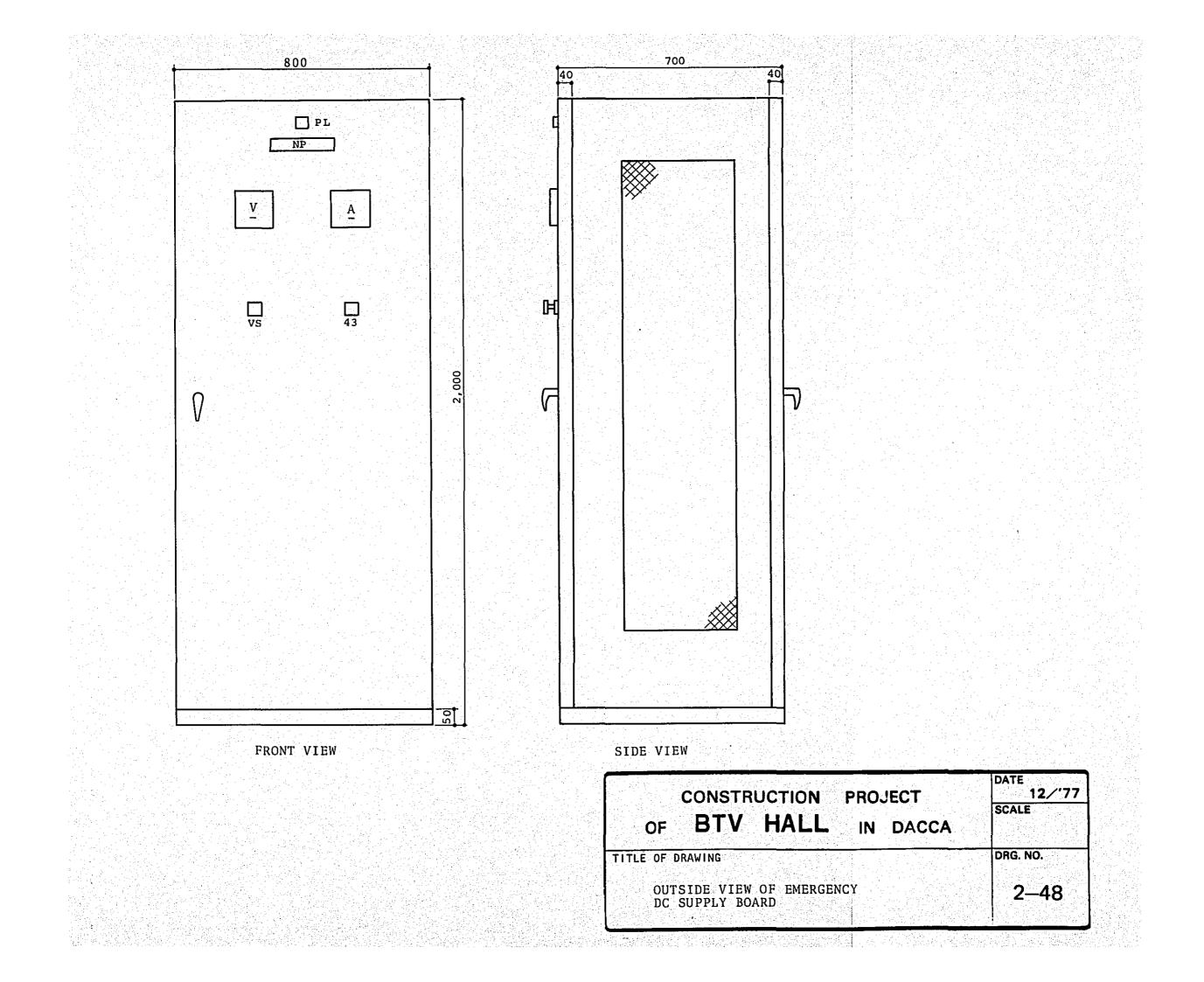


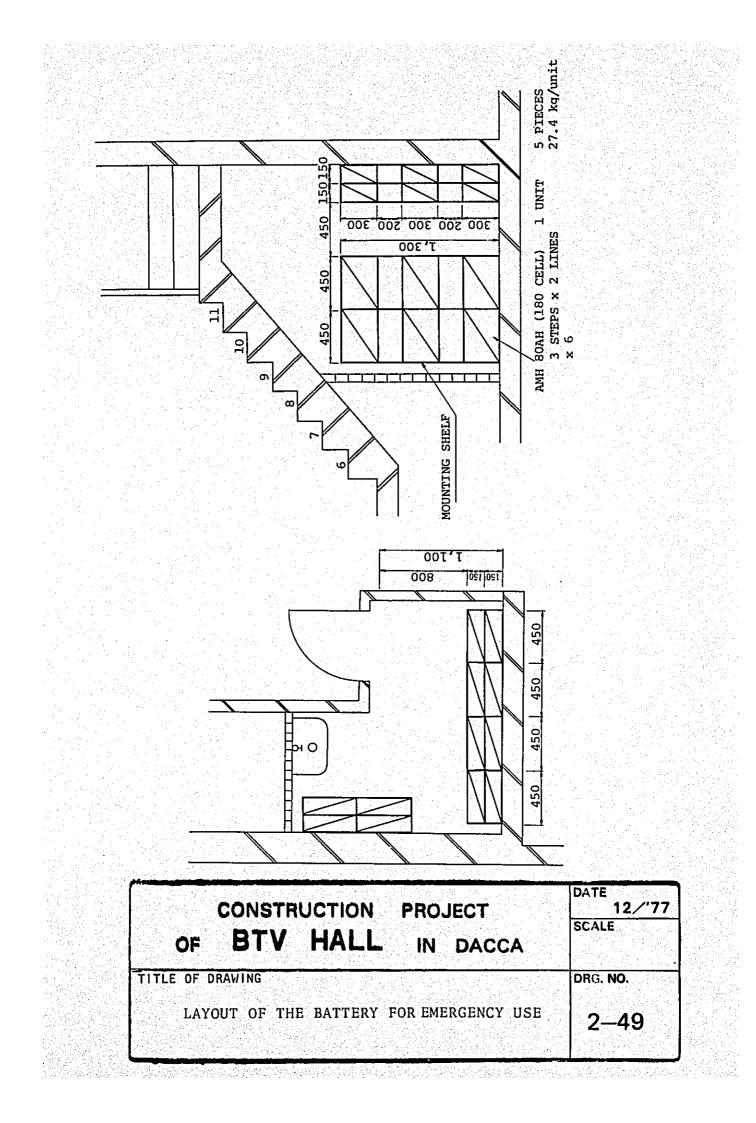


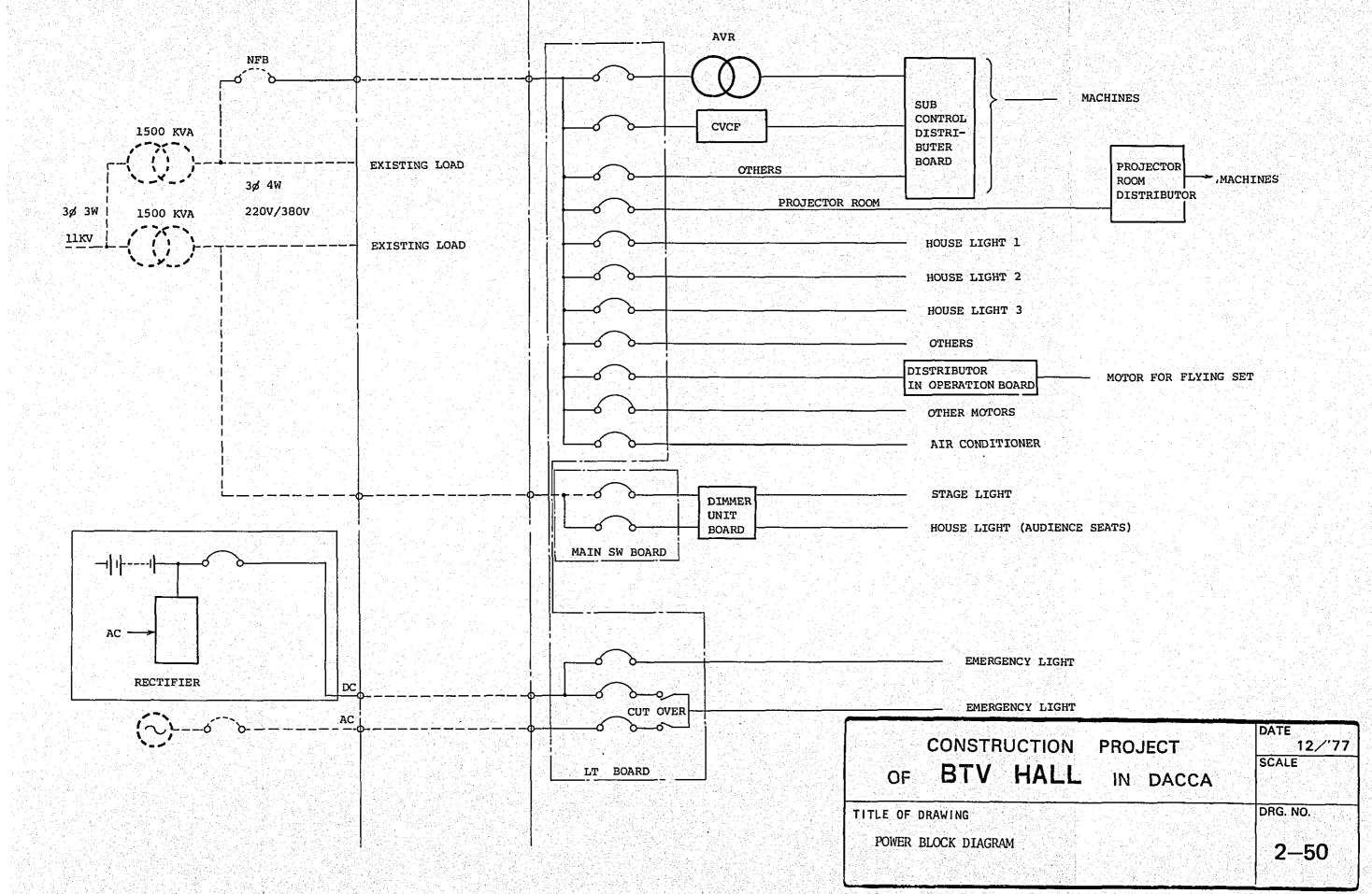


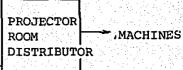




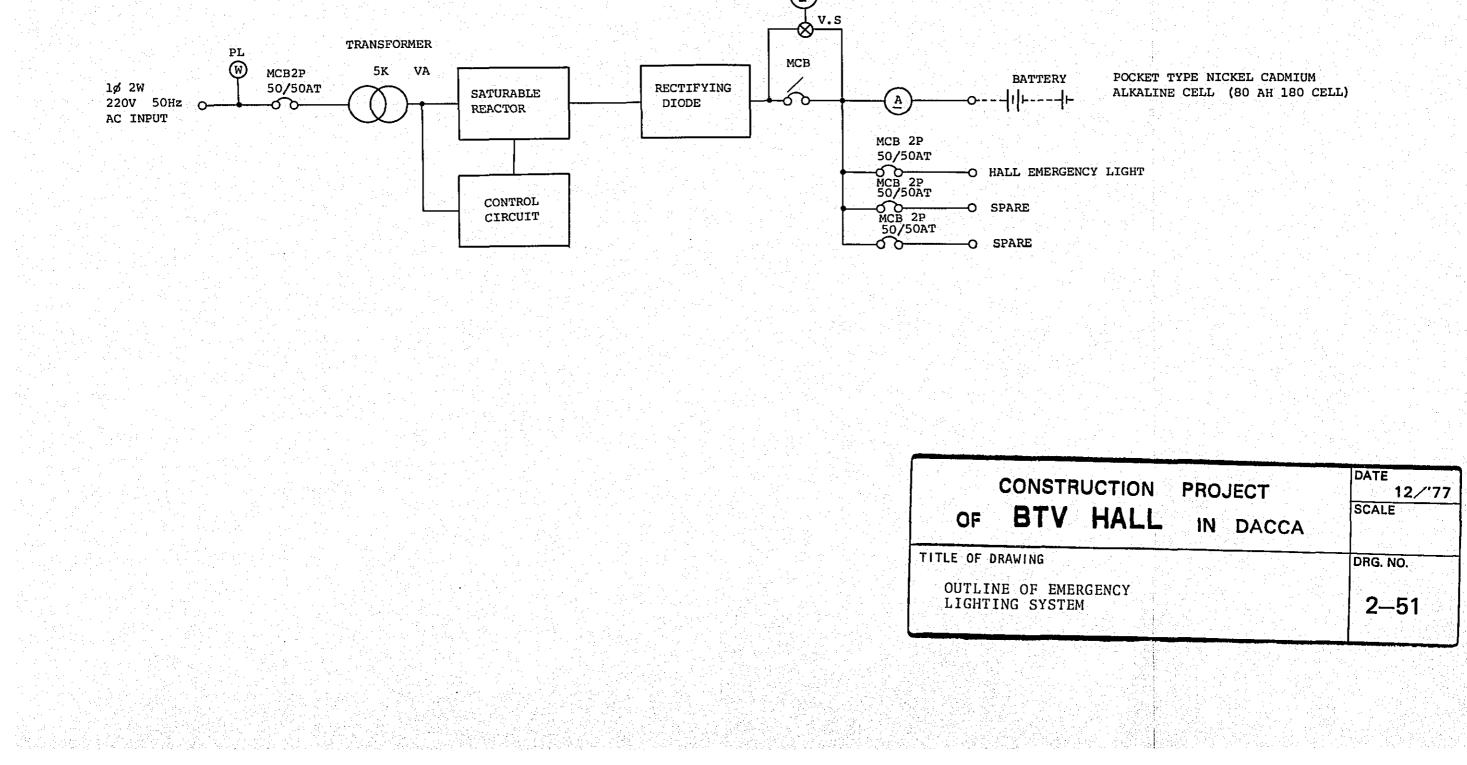




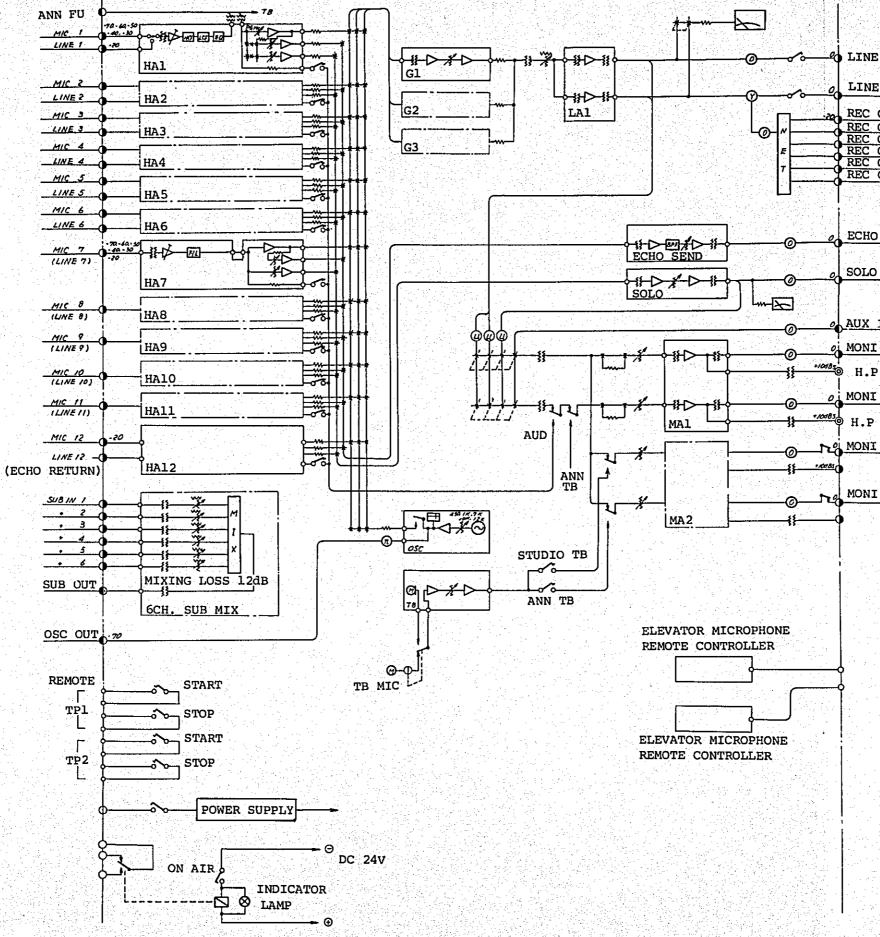




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LIN	E OUT 1
LIN	E OUT 2
REC	OUT 1
REC	OUT 2
REC	OUT 3
REC	OUT 4
REC	OUT 5
REC	OUT 6

ECHO SEND

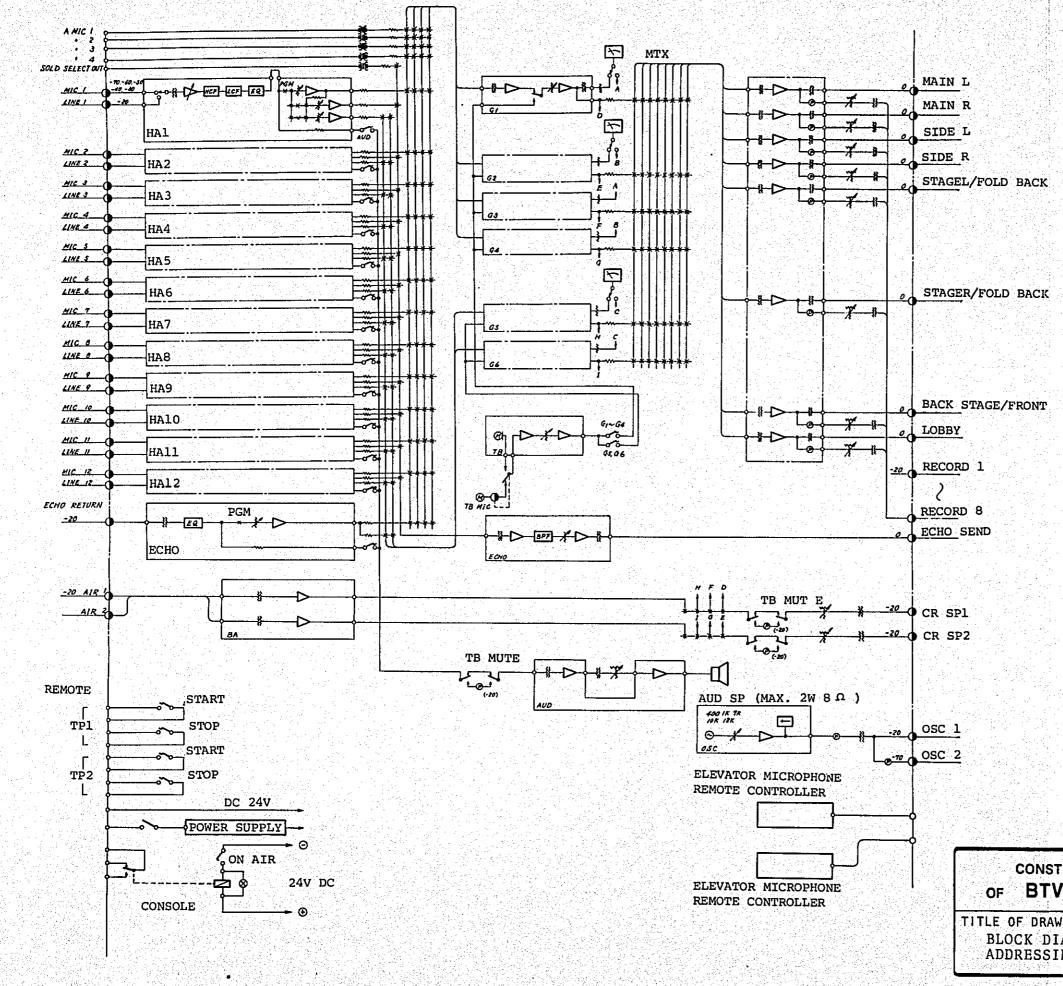
SOLO OUT

AUX IN O MONI OUT 1 +10185 H.P MONI OUT 2 MONI OUT 3

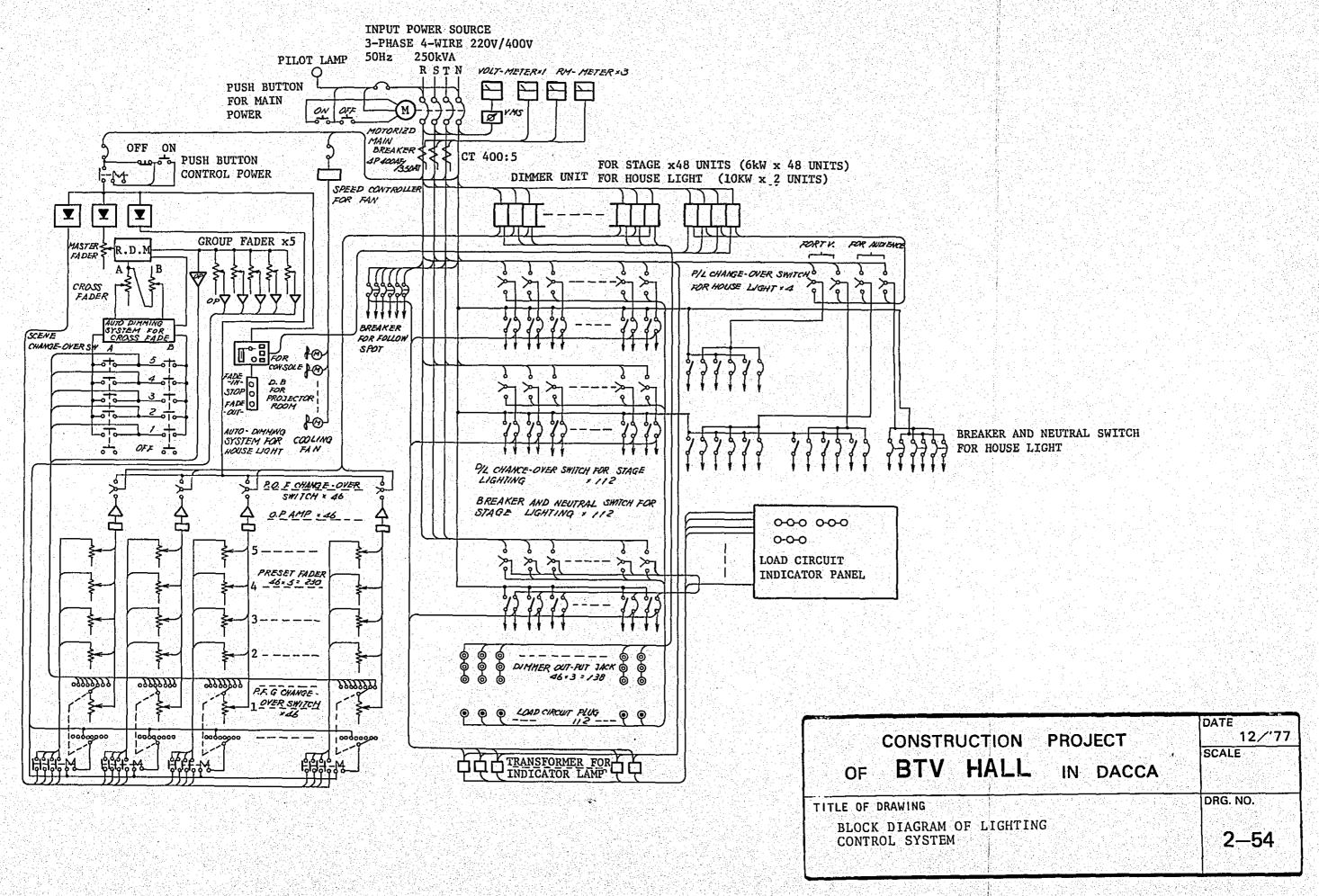
MONI OUT 4

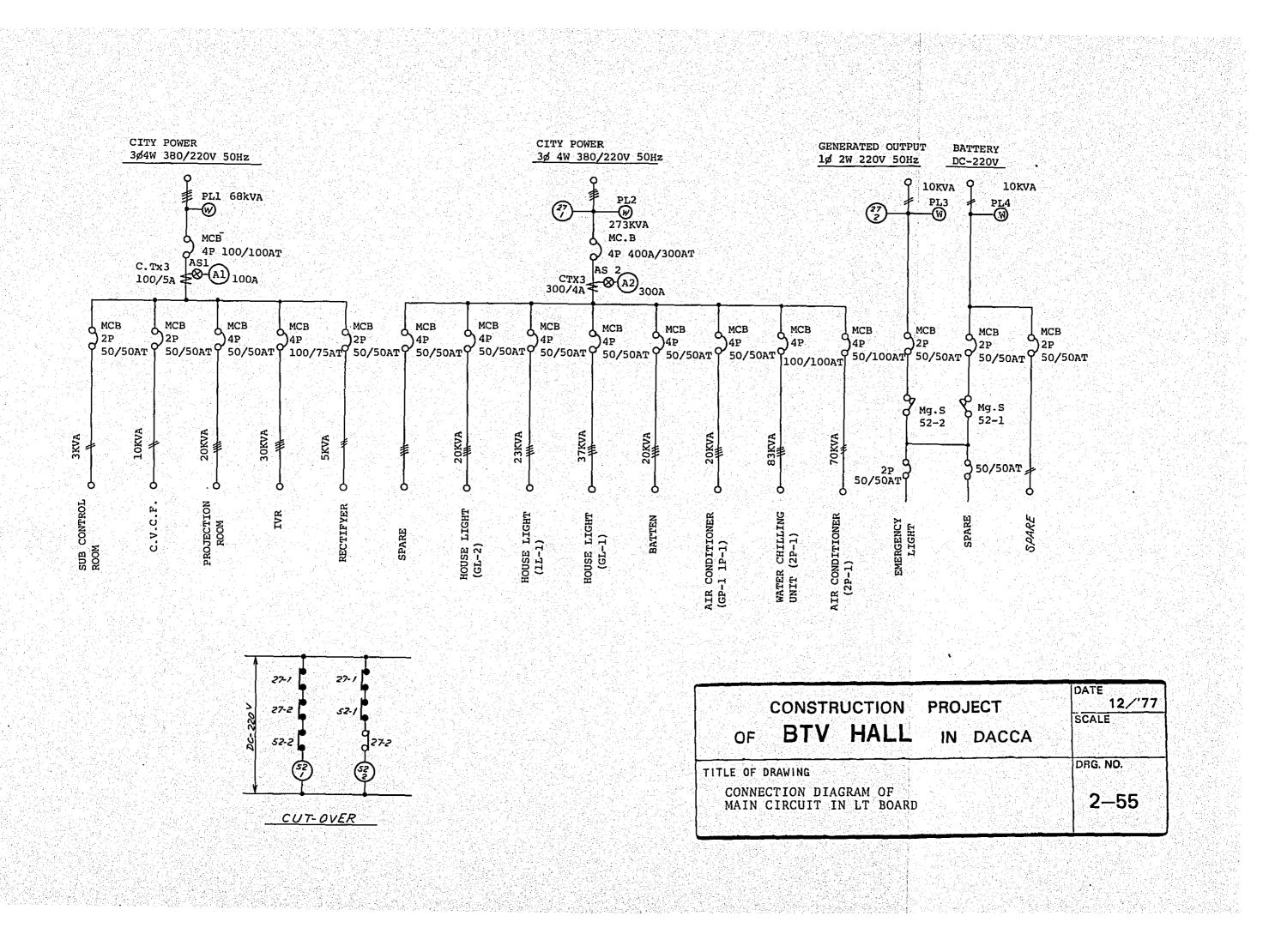
DRG NO. 2-52

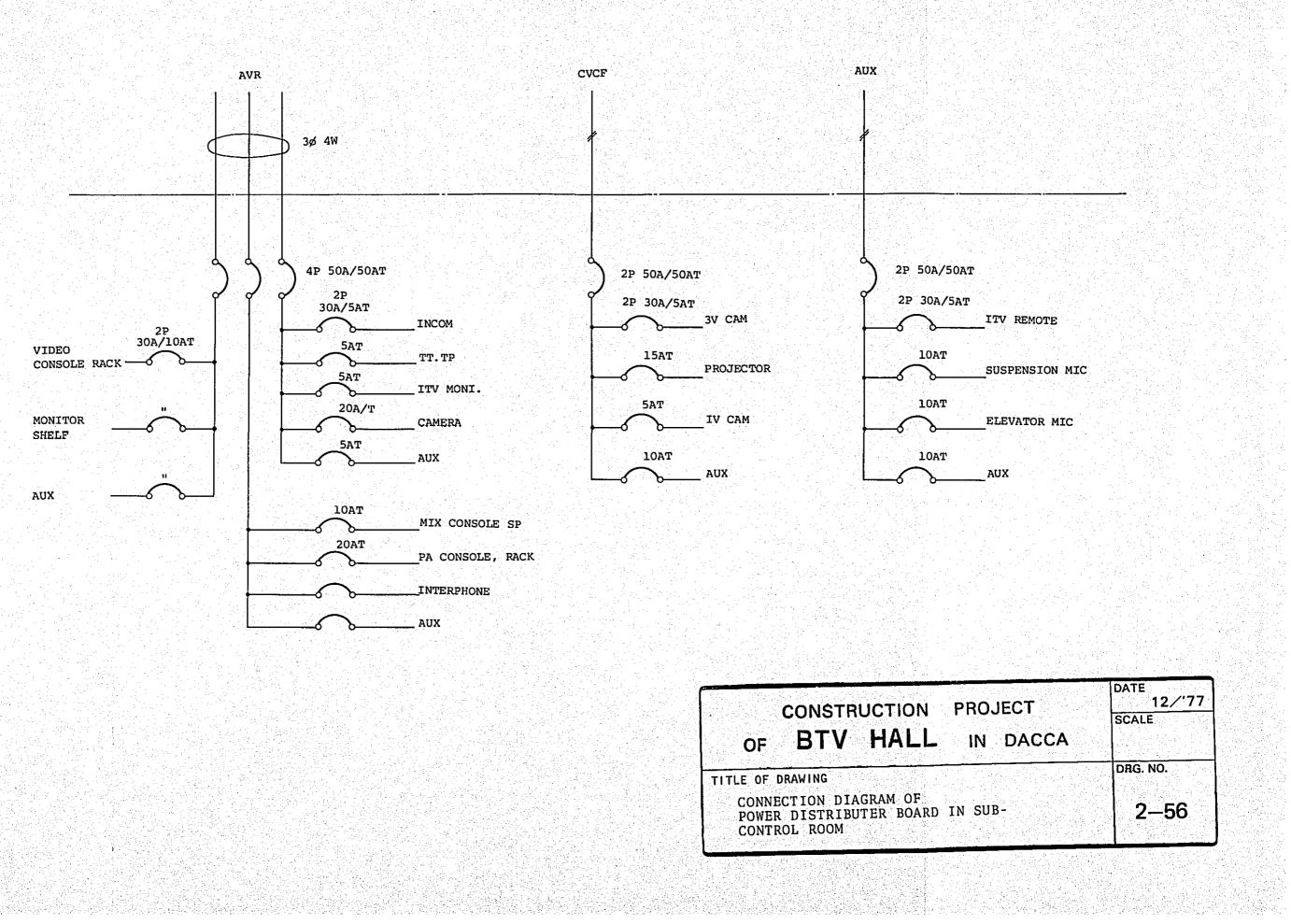
BLOCK DIAGRAM OF AUDIO MIXING CONSOLE

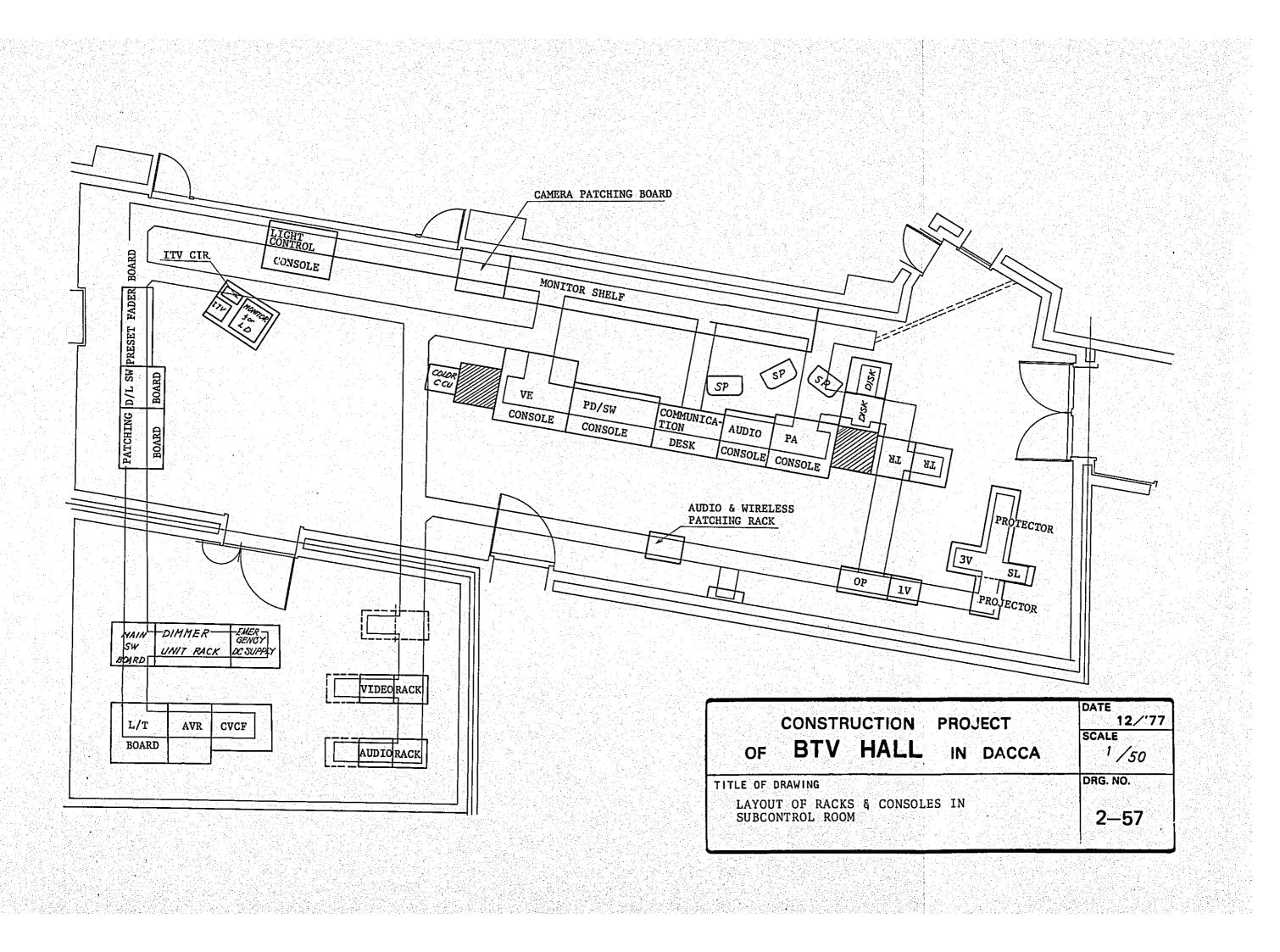


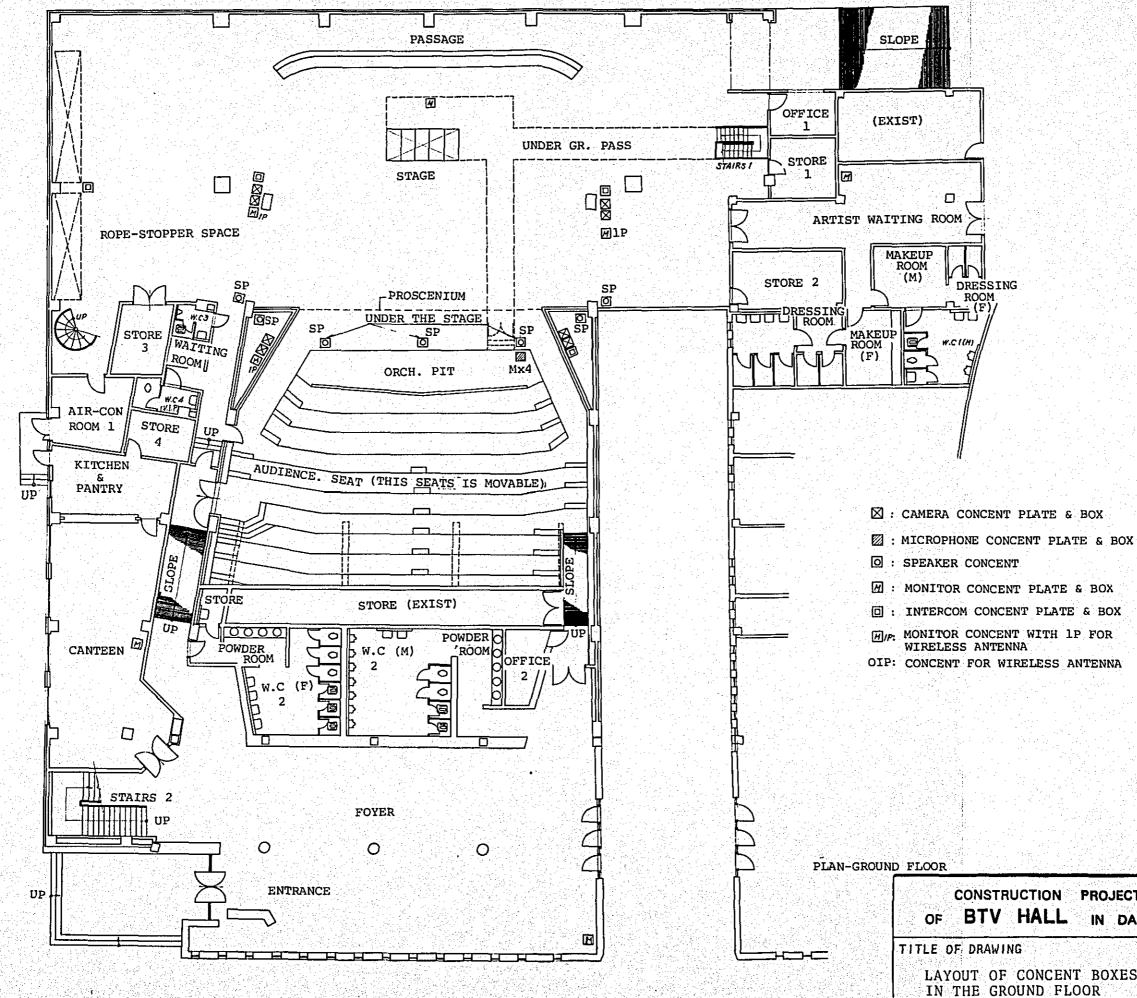
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RUCTION PROJECT	DATE 12/'77	
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NING AGRAM OF PUBLIC NG CONSOLE	DRG NO. 2-53	
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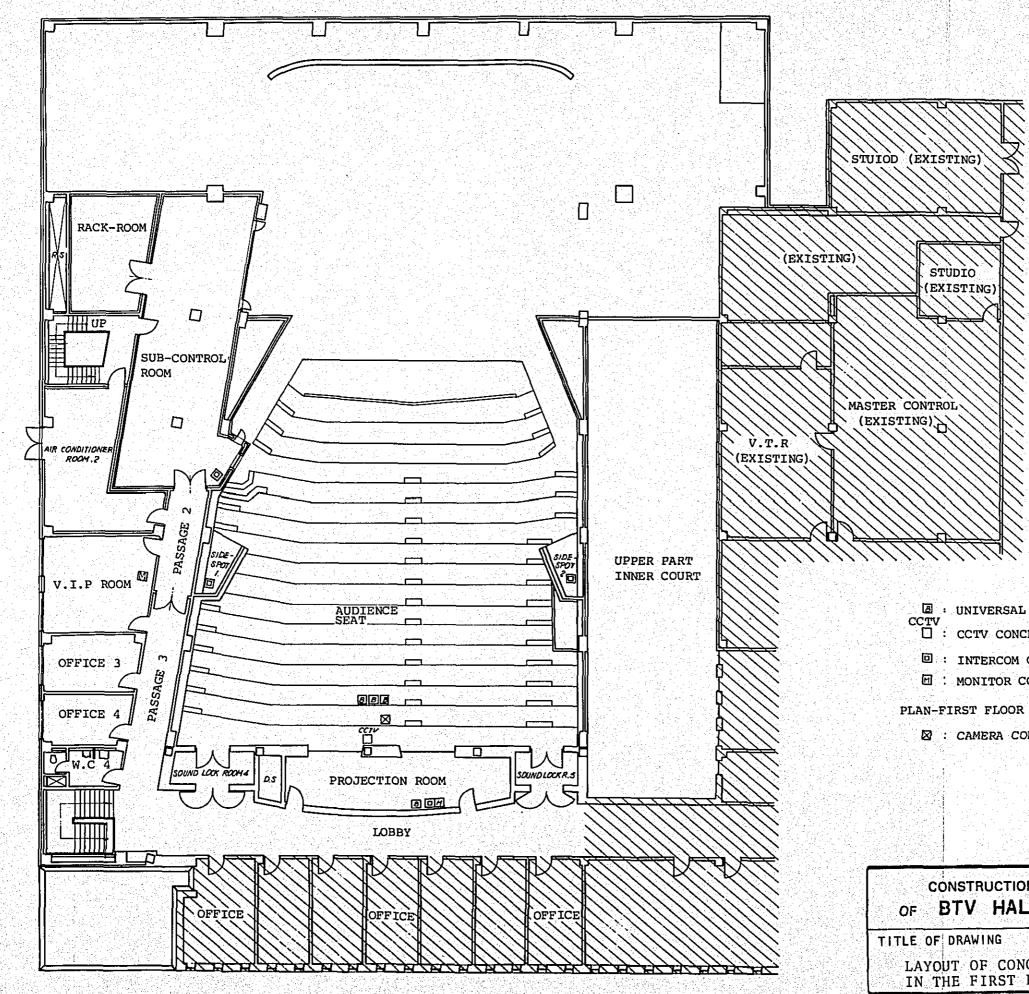








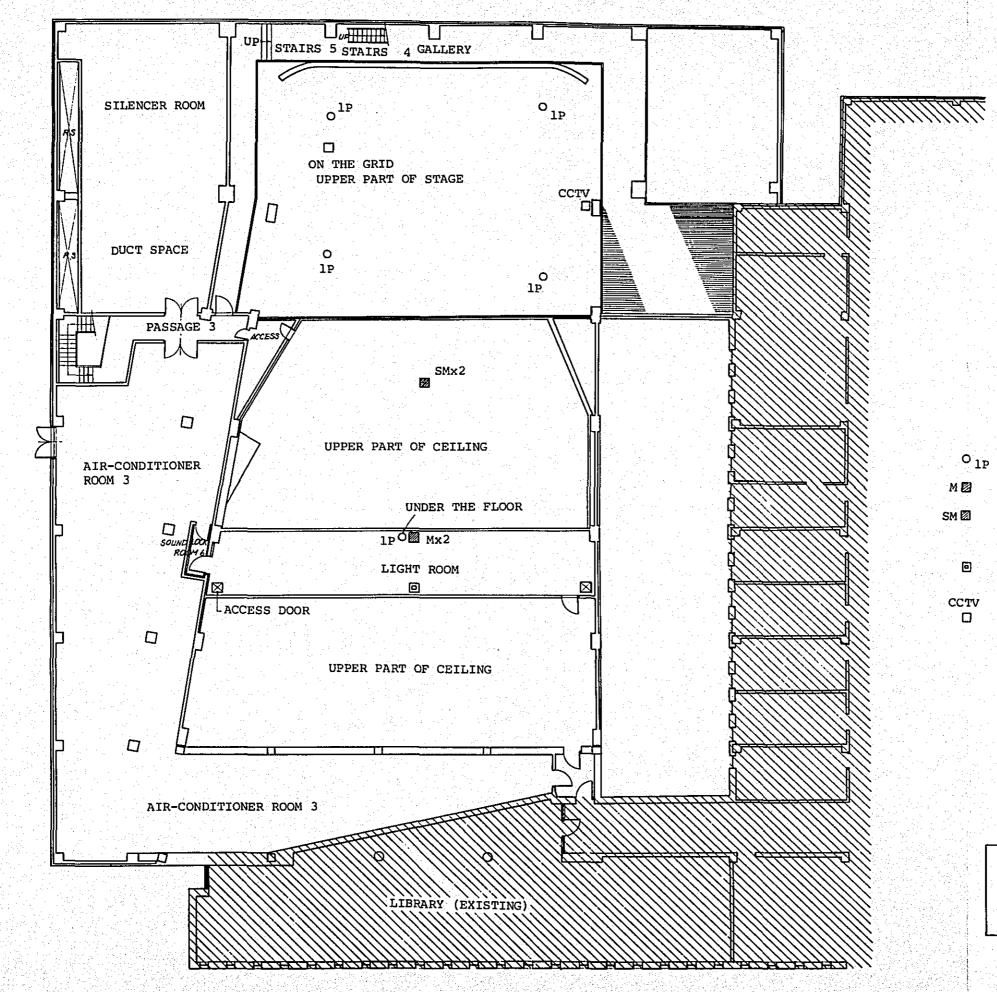
	alar silala di baga Alar silalari di baga	1
TRUCTION PROJECT	DATE 12/'77	
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WING DF CONCENT BOXES GROUND FLOOR	drg. no. 258	
and a second		1



RUCTION PROJECT	DATE 12,/"77	
HALL IN DACCA	SCALE	
ING F CONCENT BOXES	DRG. NO.	
IRST FLOOR		

AN-FIRST FLOOR ☑ : CAMERA CONSENT PLATE & BOX

☑: UNIVERSAL PLATE & BOX
 CCTV
 □: CCTV CONCENT PLATE & BOX
 ☑: INTERCOM CONSENT PLATE & BOX
 ☑ : MONITOR CONSENT PLATE & BOX



LAYOUT OF CONCENT BOXES IN THE SECOND & THIRD FLOOR

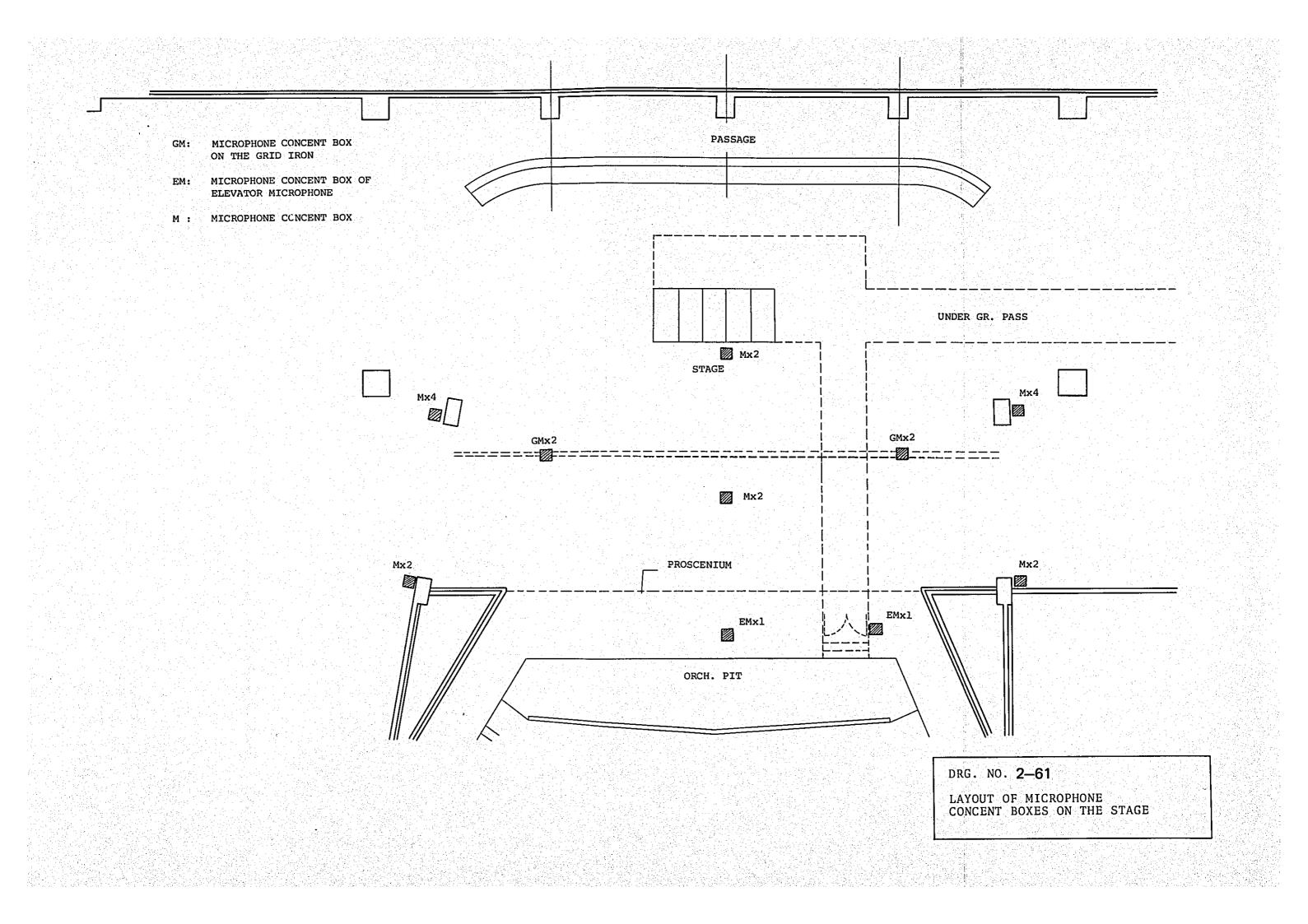
DRG. NO. 2-60

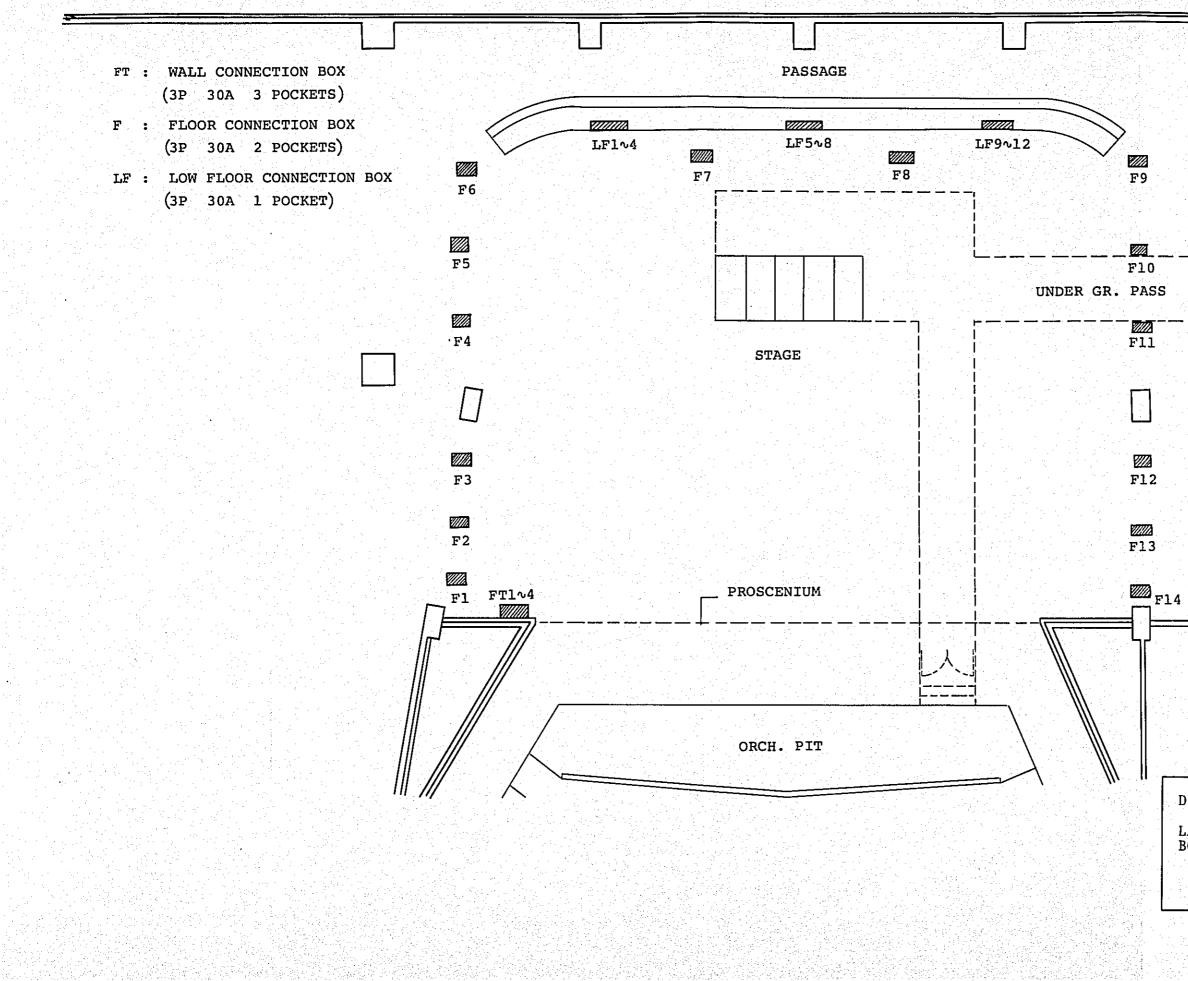
CCTV CONSENT PLATE & BOX

INTERCOM CONSENT PLATE & BOX

SUSPENSION MICROPHONE CONSENT PLATE & BOX

O 1P WIRELESS ANTENNA'S CONSENT MICROPHONE CONCENT PLATE & BOX





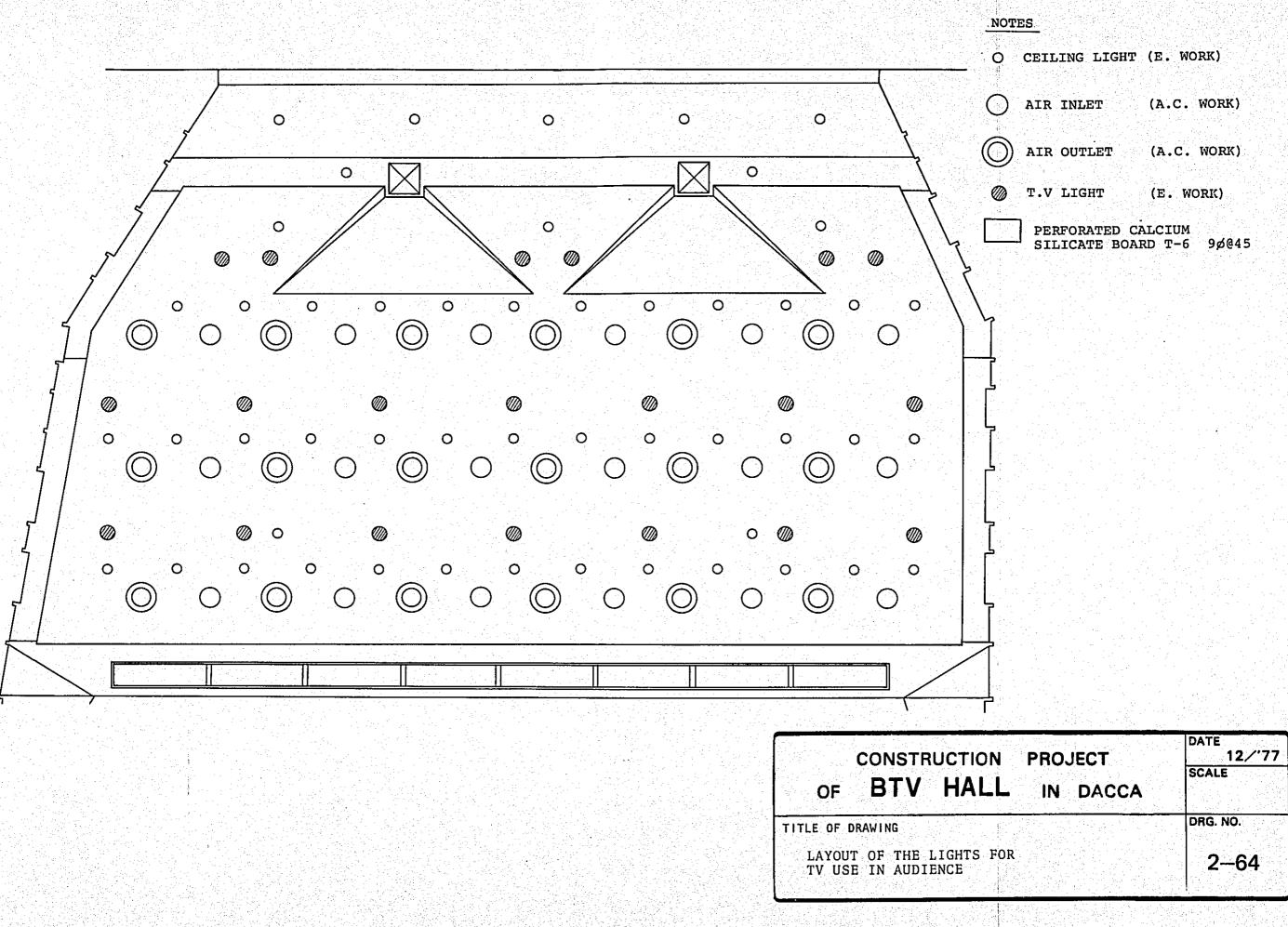
DRG. NO. 2-62 LAYOUT OF LIGHTING CONCENT BOXES ON THE STAGE

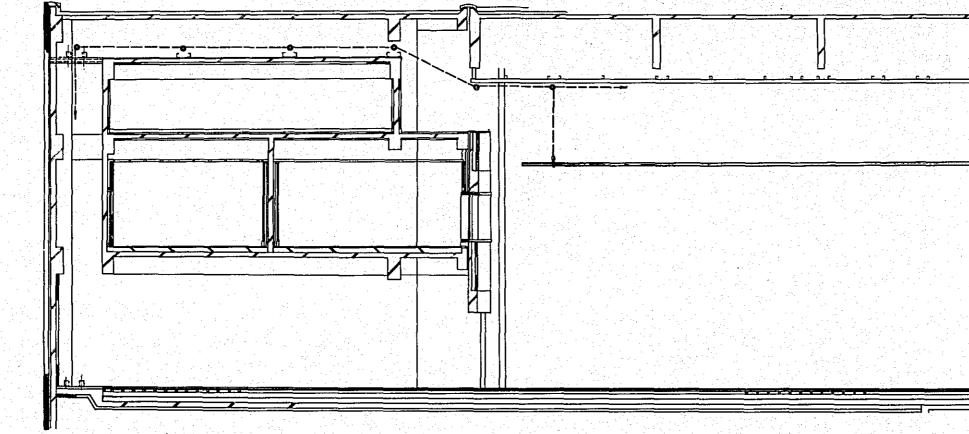
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	GAL-
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OF BT TITLE OF DRAV ARRANGEN BATTENS

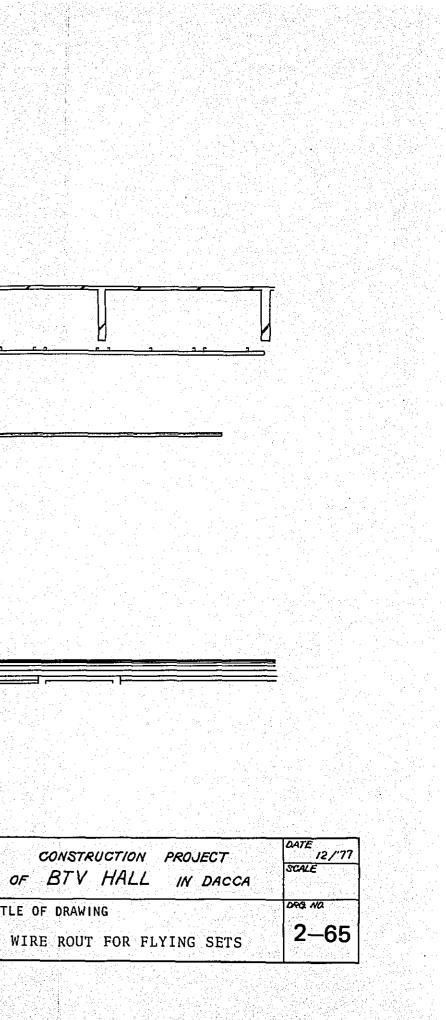
STRUCTION PROJECT	DATE 12/*77	:
V HALL IN DACCA	SCALE	
AWING EMENT OF SUSPENSION 5 (I)	^{DRG. MD.} 2—63	

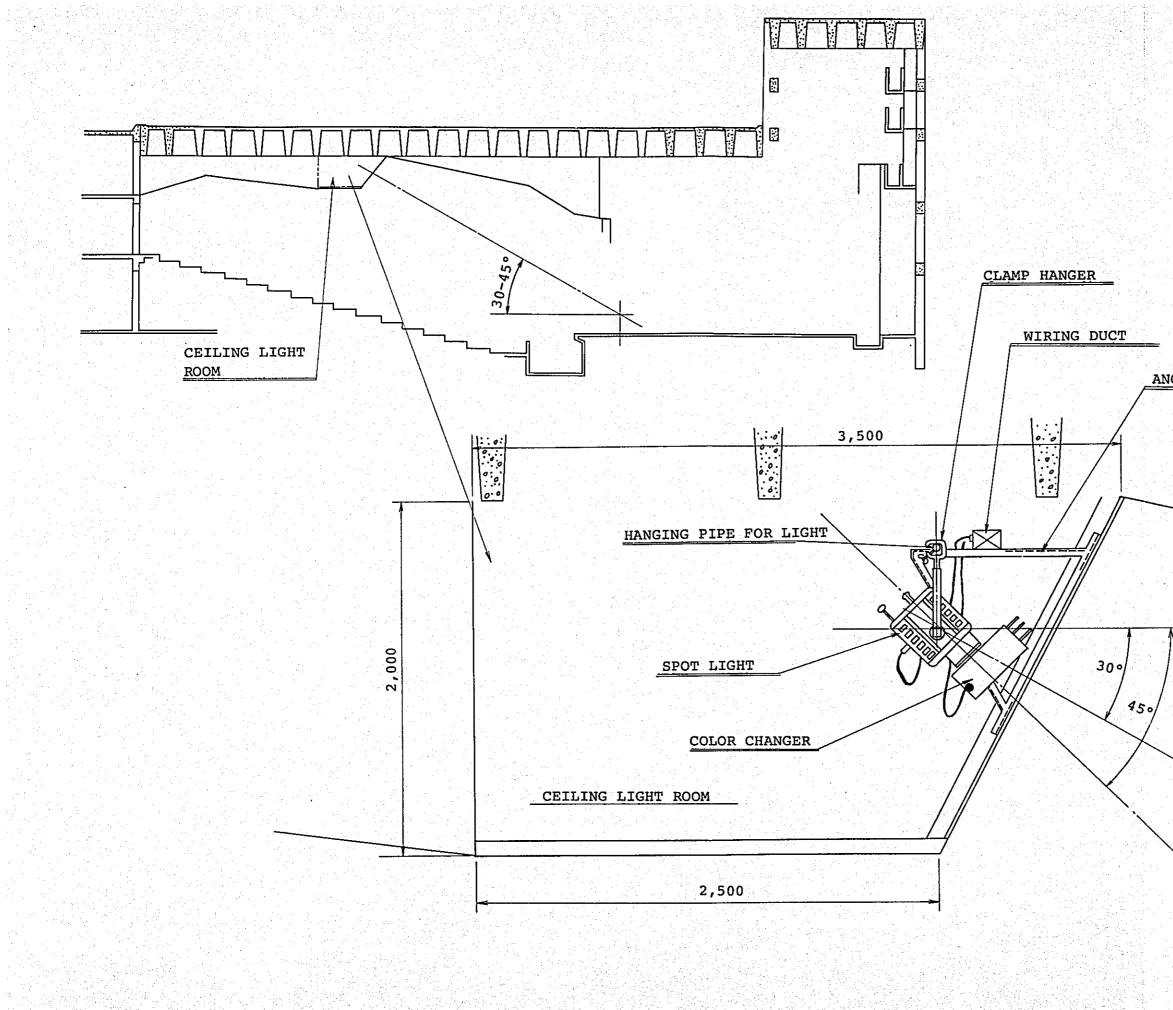
MOTOR FOR SUSPEND BATTEN



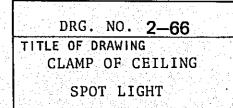


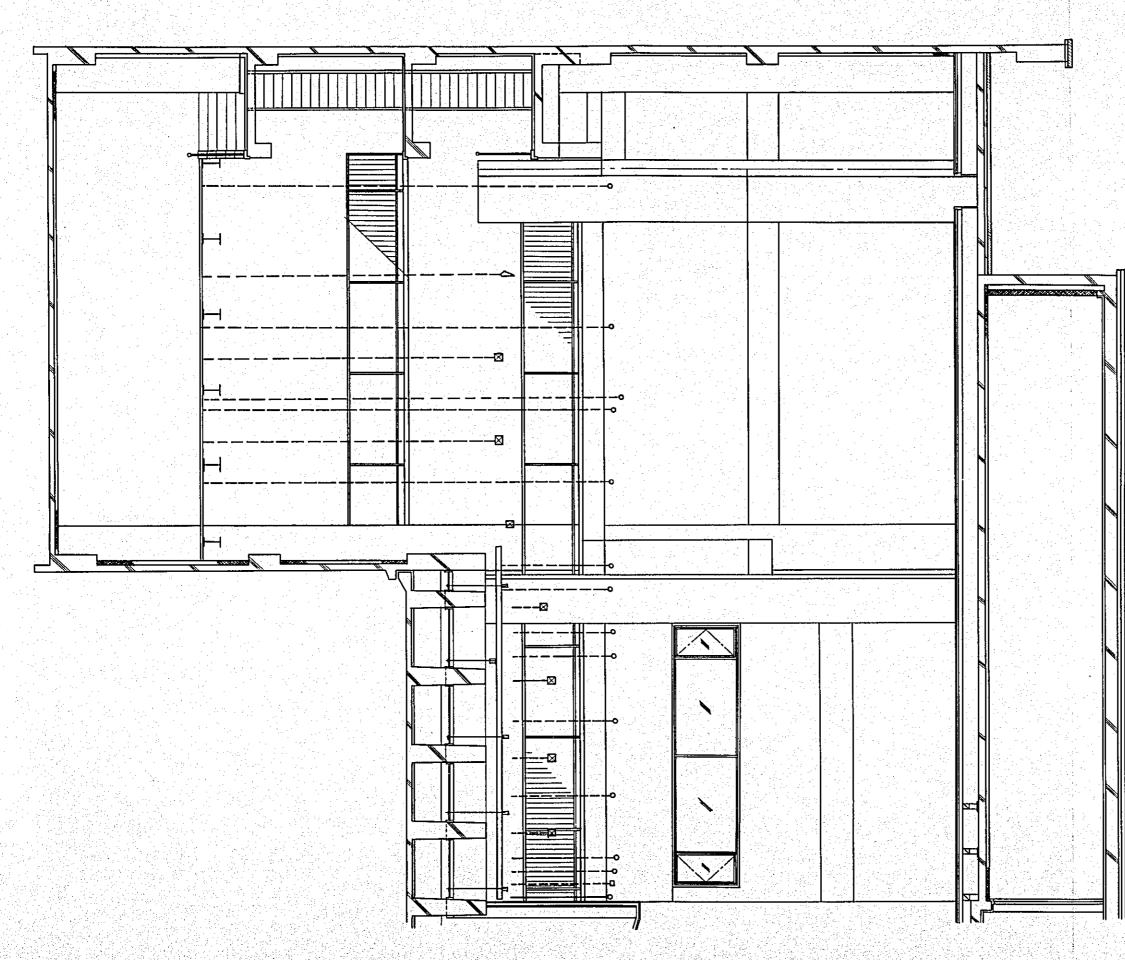
TITLE OF DRAWING

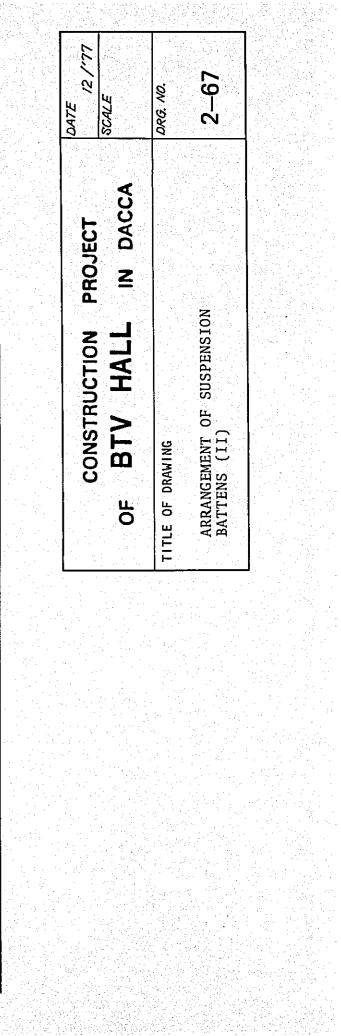


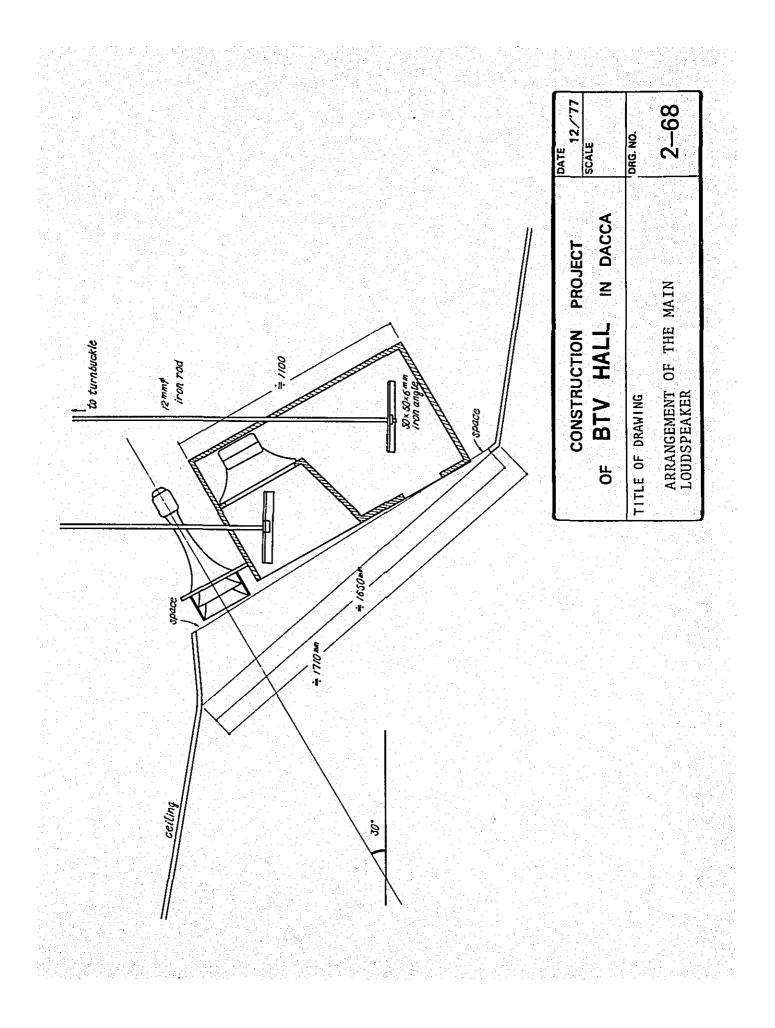


ANGLE FRAME









ITEMS	PERFORMANCE REQUIREN				TS	CONDITIONS						
INPUT IMPEDANCE	75 ohms <u>+</u> 5%					60Hz - 8MHz						
GAIN CHANGING RANGE	PICTURE		<u>+</u> 3dE			INPUT LEVEL 0.7V (P-P)						
	SYNC NO	RMAL	LEVE	L		INPUT LEVEL 3 - 5V (P-P)						
LINEARLITY	DIFFERENTIAL GAIN			<u>+</u> 2%		4.43MHz						
	DIFFERENTIAL PHASE			<u>+</u> 2%								
FREQUENCY	60Hz - 7MHz			<u>+0.5dB</u>		. STANDARD 100KHz						
CHARACTERISTIC	7MHz - 8MHz	ara Mag		OdB		. FADER POSITION 100%						
	OVER 8MHz		GR	-1dE ADUALLY		IF FADER POSITION 75.50%						
			CH	ARACTER	· · · · · · · · · · · · · · · · · · ·	LESS THAN +1dB						
			OHz		250KHz							
	STAND UP TIM			<u></u>	0.06#							
DISTORTION	SAG			Less 1%	Less 1%	15KHz 250KHz SHOULD BE USED THE SYMMETRI-						
	OVERSHOOT RINGING (LESS 0.1µS)			Less 3%	Less 3%	CAL SQUARE WAVE THAT HAVE LESS THAN 0.03 μ S RISE UP TIME.						
	OVERSHOOT RINGING (MORE 0.1µS)			Less 12%	Less 12%							
	STREAKING		NOT	VISIBL	E							
	PERIODIC		•	7mV (P	P)							
	INDUCTION			0.7mV	(P-P)							
NOISE	RANDOM			0.7mV	(P-P)							
	BY SWITCHING	÷.		NOT VI	SIBLE							
LINEARLITY OF FADER	LESS	5%										
CROSS TALK	100KHz			60dB		. INTER CHANNEL						
	3MHz	·		40dB								
PHASE OF SWITCHING POINT	LESS <u>+1</u> 5	6				3.5MHz						

TOTAL VIDEO PERFORMANCE TABLE

		ITEMS		PERFORMANCE REQUIREMENT
and the second second	THROUGH	그는 것은 물질 것을 하는 것 같아. 물건 물건물건	PROGRAM LINE	<u>+</u> 0.5dB
INSTA	LLATIO	N	MONITOR LINE	±1.0dB
	W	NORMAL LEVEL	FREQUENCY RANGE FOR USING	LESS 0.5dB
	PROGRAM LINE	NORMAL LEVEL	100 - 10,000Hz	LESS 0.75%
LON	PR I	+1.5dB	<pre>< 100 or > 10,000</pre>	LESS 1.0%
DISTORTION	ы	NORMAL LEVEL	FREQUENCY RANGE FOR USING	LESS 0.75%
	MONITOR	NORMAL LEVEL +10dB		LESS 3.0%
s/n	(INPUT	LEVEL -72dBm)		MORE 50dB
CROSS TALK				THE LEVEL CAN NOT HEAR
ALLO	WANCE O	F THE *	PROGRAM LINE	MORE +20dB
MAXIN	MUM GAI	N	MONITOR LINE	MORE +10dB

* ALLOWANCE OF THE MAXIMUM GAIN FOLLOWS:

WHEN THE ATTENUATER GRADUALLY INCREASE UP TO THE LEVEL OF THAT THE STATE IS NO TROUBLE.

DRG. NO. **2-70** TOTAL AUDIO PERFORMANCE TABLE

1 Performance

1.1 Performance test

Using the specified power supply, a performance test will be conducted to check whether there is any abnormality in the performance of the equipment involved.

Measurement will also be made of the power supply voltage and all currents employed by use of the voltage meter and ampere meter with an accuracy of more than the 2.5th Class.

1.2 The following items will be measured during a continuous operation of more than 10 hours under normal operating conditions and at a normally rising temperature.

- (1) Measurement will be made of the voltage and current applied and flowing through the specified points.
- (2) A check for normality will be made of each section
- (3) The temperature of the following sections will also be measured to confirm whether or not it is below the standard value specified for the points. Selenium rectifier, electrolytic condenser close to a heat emitting body, heat proof type resister, power transformer, temperature inside the control console, temperature of the heat radiating plate, and room temperature etc.

1.3 Insulation resistance.

The insulation resistance of the equipment and circuits involved will be as given in TABLE 1 when measurement is made using a 500V megger.

IADLE J	TABLE]	ĺ.
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Equipment and circuit	Measuring points	Insulation resistance
Distribution board and dimmer unit	Between the wiring and earth and bet- ween the wirings	Over 10MΩ
Wiring between equipment and the wiring of terminal equipment	Same as above	Over 5MΩ
Pilot lamp circuit and control circuit	Between the wiring and earth.	Over 5MΩ

1.4 Dimming characteristics

The characteristics of the dimmer will be such as given by that performance curve, nearest to the calculated performance curve and dimming range will be from 0 to 100%.

1.5 Temperature characteristics

The voltage fluctuation in the dimmer will be within 10% at a dimming output voltate of 50V and within the ambient temperature range 5 to 40°C.

1.6 Protection circuit

The dimmer will be equipped with a protective circuit to protect it against overcurrent.

1.7 Dimmer unit

The dimmer to be applied will be of the remote control type, and the range of applicable load is as given in TABLE 2

TABLE 2

	Range of applicable load	Remarks
Dimmer unit	Range of applicable load	NEWGI X5
15A	30W - 3KW	For the incandescent
30A	60W - 5KW 100W - 10KW	lamp
50A	TOCM - TOCM	

1.8 Electrical effects with the use of dimmer

The dimmer involved will be designed in such a way that there will be no adverse effects to the audio system, video system and other TV broadcasting equipment under normal operating conditions.

- 2. Tests and Procedures
- 2.1 Test items

TITLE OF

- (1) Construction and appearance
- (2) Electrical performance
- 2.2 Test requirements

Both the appearance and electrical performance test will be conducted at a temperature of 20°C and at a relative humidity of 65%. If the temperature and relative humidity inside the test room are respectively within 5-35°C and 45-85%, the test conditions may be regarded as normal.

2.3 Construction and appearance test

In the performance of this test, a check will be made as to whether or not the following items meet the requirements given belows.

(1)	Appearance	Paint applied to t
		cation for the wri
(2)	Condition	Unit configuration
		and others.

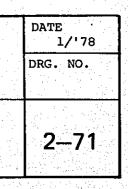
2.4 Electrical performance test

In the performance of this test, a check will be made as to whether or not the performance of the dimmer complies with the specification.

	CONS	STRUCT	TION	PRO	JECT	
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PERFORMANCE TABLE OF LIGHTCONTROL SYSTEM the dimmer assembly, color identifiiting, and other indications.

n, component, quantity of spare parts



- 1 Electrical specifications of flying set battens and lighting battens
- 1.1 Both the lighting battens and flying set battens will be of remote control type and will be fixed at an optional height.
- 1.2 For safety, they will be stopped with a limit switch which is actuated whenever they come into contact with the stage set while they are being moved up or down.
- 1.3 Range of batten elevation The lighting battens and flying set battens will be elevated and lowered within the following range.
- (1) Upper limit Distance between the lower part of the grid pipe (channel iron) and upper part of the batten. (2) Lower limit Distance between the stage floor and the batten pipe center. 7,500 mm/min 1.4 Elevating and lowering speed (a) Lighting batten over 20kg/1000mm
- 1.5 Concentrated load
- Mechanical specifications 2.
- 2.1 Flying set batten
 - Manual counter weight type (1) Elevating method
 - (a) The flying battens will be fixed at an optional height with the use of counter weight.
 - (b) The flying battens will be operated beside the wall of right side stage.
 - (2) Load

4

Over 7.5kg/1000mm (concentrated Load)

(b) Flying set batten over 25kg/1000mm

3 Issolation test

The issolation test resistance of the equipment and circuit involved will be such as given in TABLE 1 when measurement is made using a 1000V megger.

TABLE	1

Equipment and circuits	Measuring points	
Circuit connection board-	Between the wiring for one cir-	
terminal board circuit	cuit system and earth and between	Over 5MΩ
wiring.	the wirings.	
Control circuit	Between the wiring for one cir-	Over $5M\Omega$
	cuit system and earth.	

Overall performance test

An overall performance test will be conducted for the electrical and mechanical performances of the lighting battens and flying set battens.

	DATE 1/'78
CONSTRUCTION PROJECT OF BTV HALL IN DACCA	DRG. NO.
TITLE OF DRAWING	0 70
PERFORMANCE TABLE OF SUSPENSION BATTENS	2–72

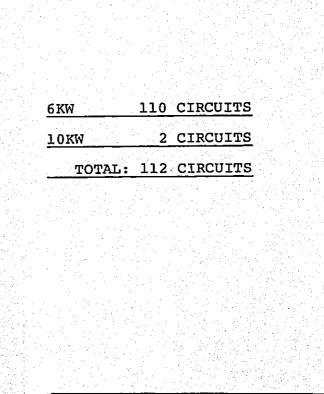
CIRCUIT NAME	CAPACITY OF EACH LOAD CIRCUIT	NUMBER
BASE LIGHT Fl - F6 (BORDER LIGHT)	6 KW	24
SUSPENSION LIGHT S1 - S8 (FLYING DUCT)	6 KW	24
UPPER HORIZON LIGHT (FLYING DUCT) UHL - UH3	6 KW	12
LOWER HORIZON LIGHT LH1 - LH12	6 KW	12
CEILING SPOT LIGHT CS1 - CS6	6 KW	6
SIDE FRONT LIGHT SF1 - SF4	6 KW	4
FOOT LIGHT FT1 - FT4	6 KW	4
FLOOD LIGHT · F1 - F14	6 KW	14
CENTER SPOT LIGHT CL1, CL2	6 KW	2
CAT-WALK LIGHT CW1 - CW5	6 KW	5
CEILING SPOT LIGHT (EFFECT) CE1	6 KW	1
AUDITORIUM CEILING LIGHT (FOR T.V) ACT1, ACT2	6 KW	2
AUDITORIUM CEILING LIGHT (FOR GENERAL) ACG1, ACG2	10 KW	2
	TOTAL	112

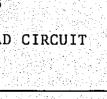
A TABLE OF LOAD CIRCUIT

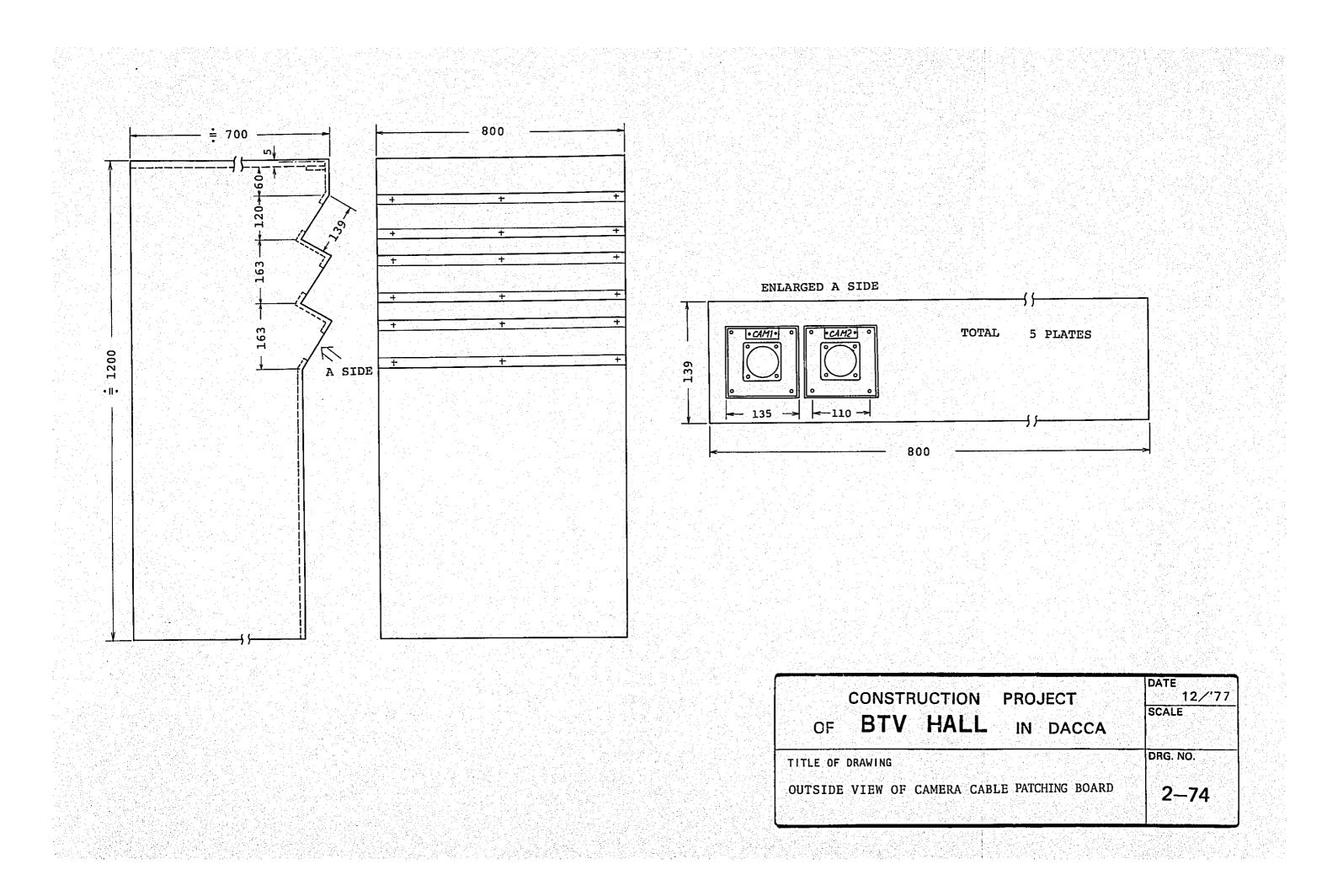
6 KW 10KW 2 CIRCUITS

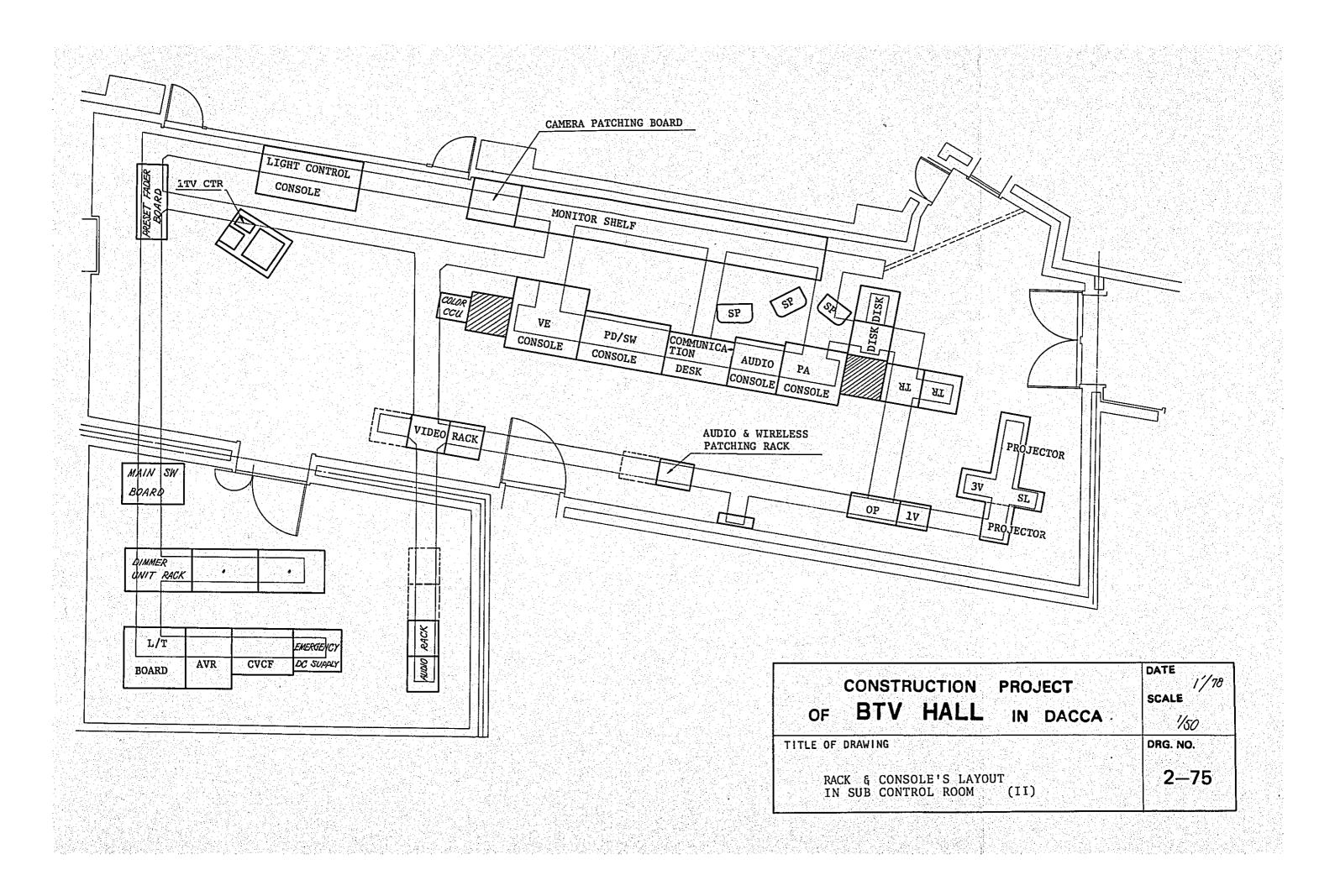
DRG. NO. 2-73

A TABLE OF LOAD CIRCUIT









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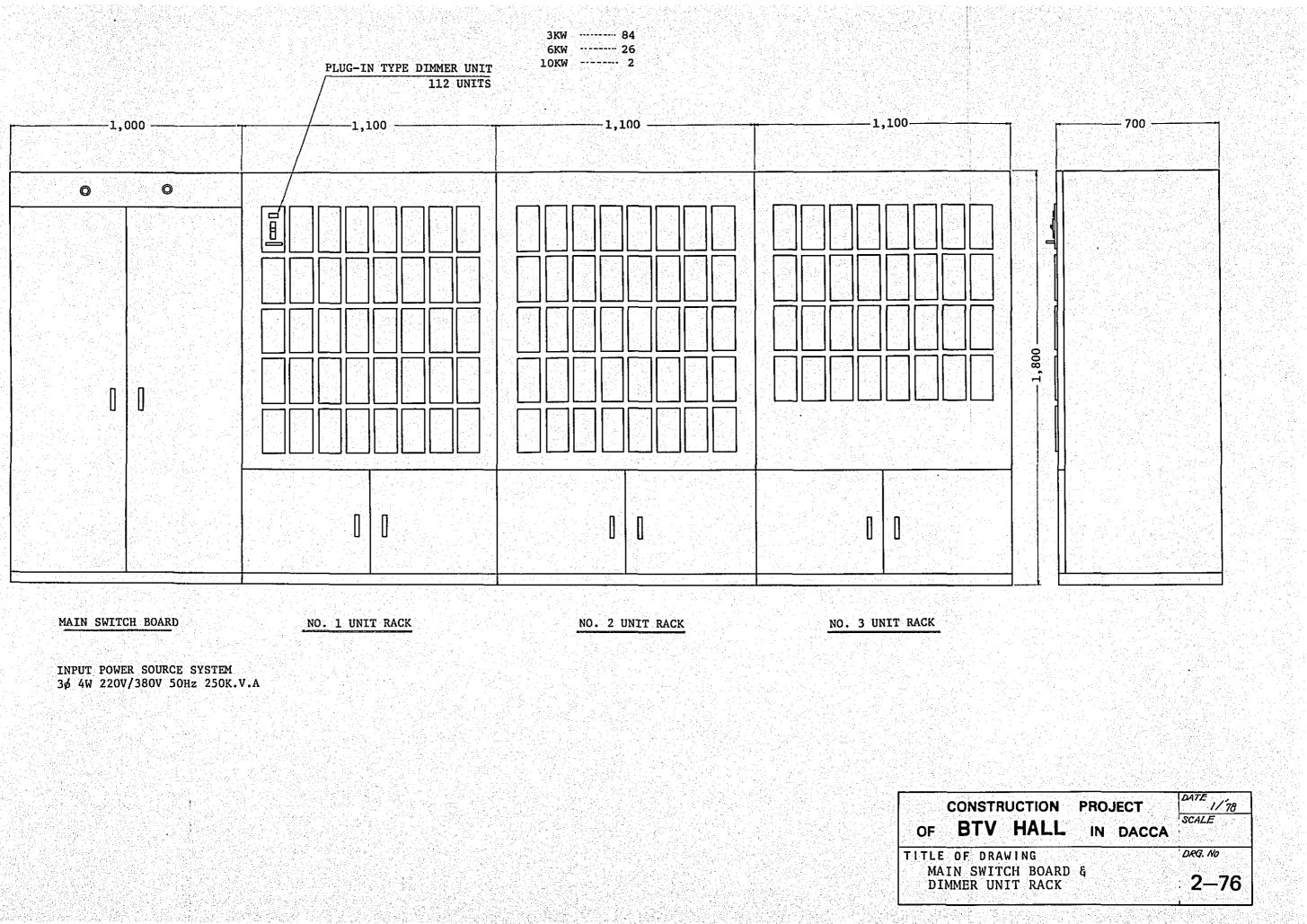
MAIN SWITCH BOARD

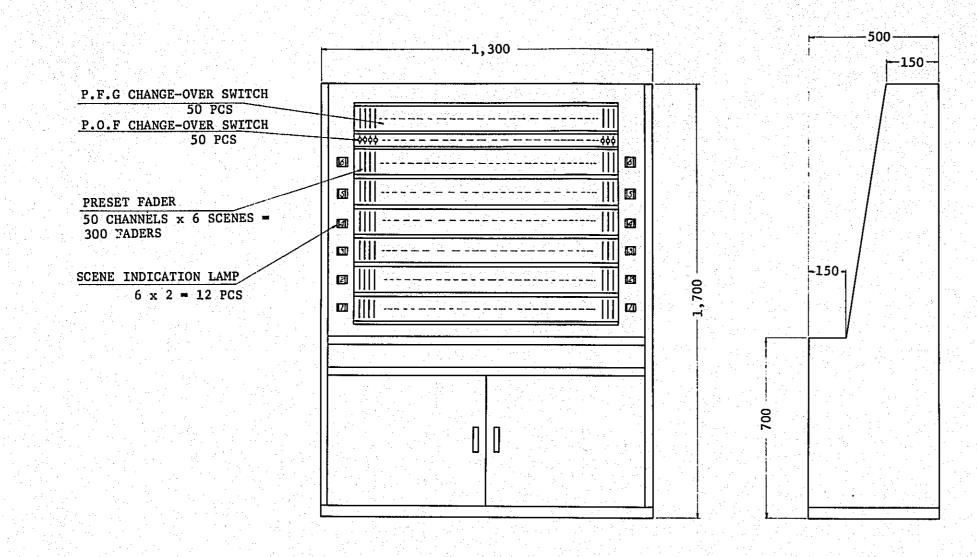
NO. 1 UNIT RACK

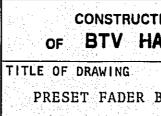
NO. 2 UNIT RACK

NO. 3 UNIT RACK

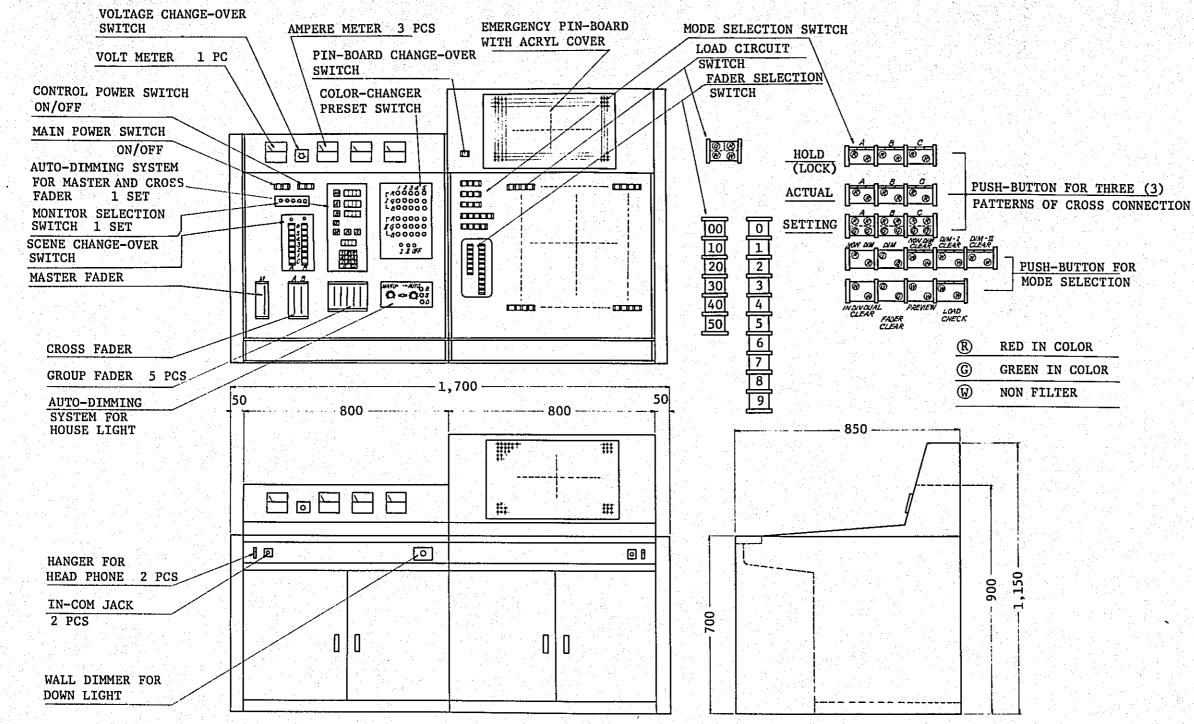
INPUT POWER SOURCE SYSTEM 3¢ 4W 220V/380V 50Hz 250K.V.A

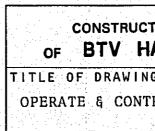






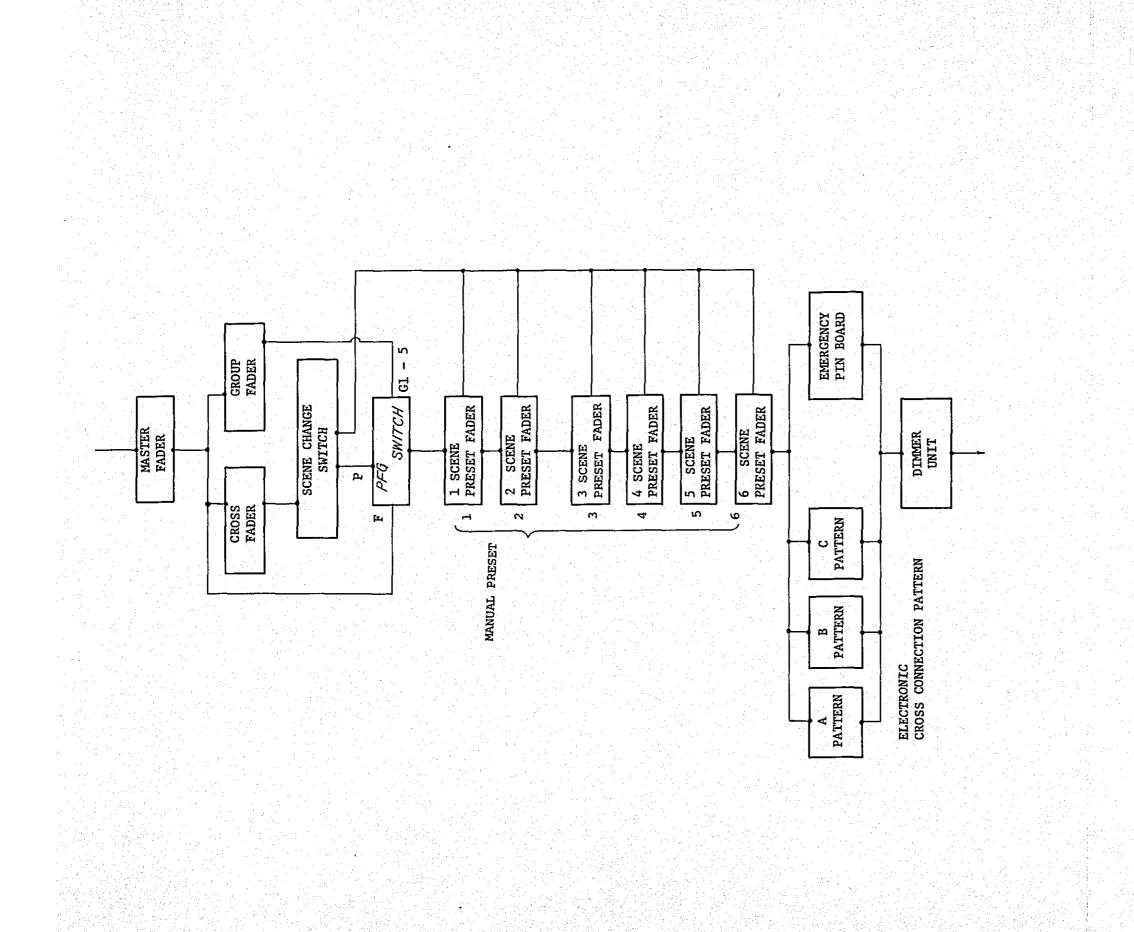
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승규는 것 같은 것 같아요. 그는 것 같은 것 같아요. 이 것 같아요. 나는 것 같아요. 지수는 것 같아요. 나는 것
별 것은 가슴 소리는 것은 이번에 동안을 넣는 것이다. 한 것은 것은 것은 것을 가지 않는 것이다. 같은 것은
같아요. 영상 관람을 들었다. 물건은 명상을 얻을 것이다.
이 같은 것은 것은 것이 같은 것은 것을 것 같은 것이다.
동네는 그렇게 잘 다니 것은 승규는 것이라. 그렇게 가지?
회사는 승규는 사람이 가지 않는 것이 같아. 이 것은 것이 가지 않는 것이 같아?
승규는 이 가슴은 것이 같은 방송을 얻는 것이 같아?
승규는 영상에 가지로 가지면 것을 가 편하는 것을 받았다.
없는 것 이 것 같은
같은 사람은 감독을 가지 않는 것을 가지 않는 것을 수 있다.
동안에 이 것은 것을 수 있었다. 한 것 같은 것이 없는 것이 없다.
그는 것 같은 관람들은 동안을 가지 않는 것을 받았다.
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DATE	SCALE	DRG. NO	6/-z	_
CONSTRUCTION PROJECT	OF BTV HALL IN DACCA	TITLE OF DRAWING BLOCK DIAGRAM OF LIGHTING CONTROL	SYSTEM BY ELECTRONIC CONNECTION METHOD	

