

Sub-Project:

NATIONAL MUSEUM

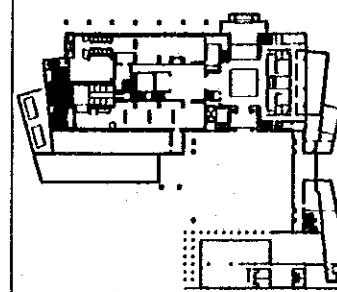
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JICA Study Team:

Joint Venture of
Pacific Consultants International and
Yamasita Sokret Inc.

Subcontracted Local Consultant:

Jafar Tukan and Partners
Architects and Engineers

Drawing Title:

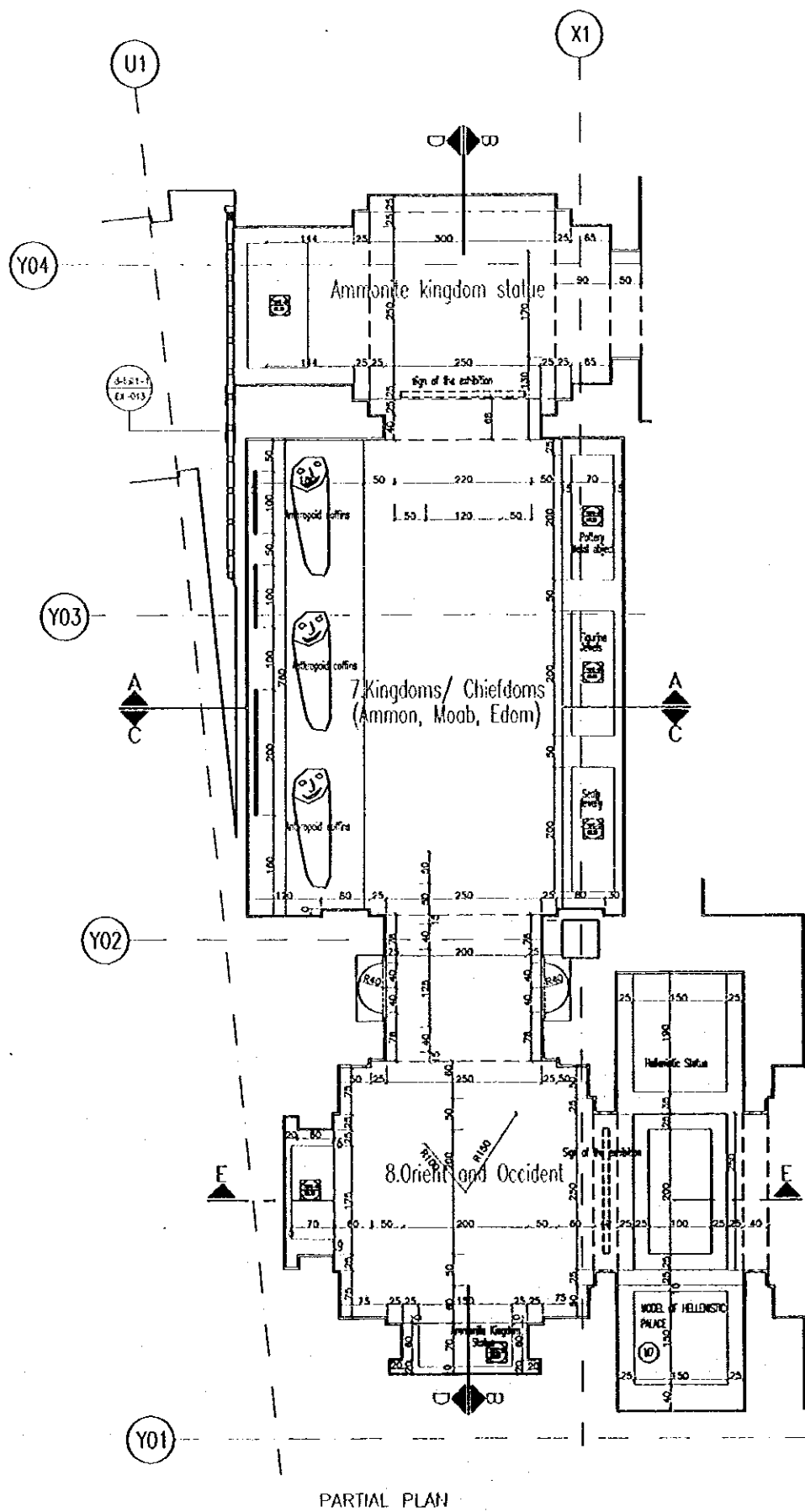
EXHIBITION HALL - GROUND FLOOR
PARTIAL PLAN - ZONE 6

Scale:

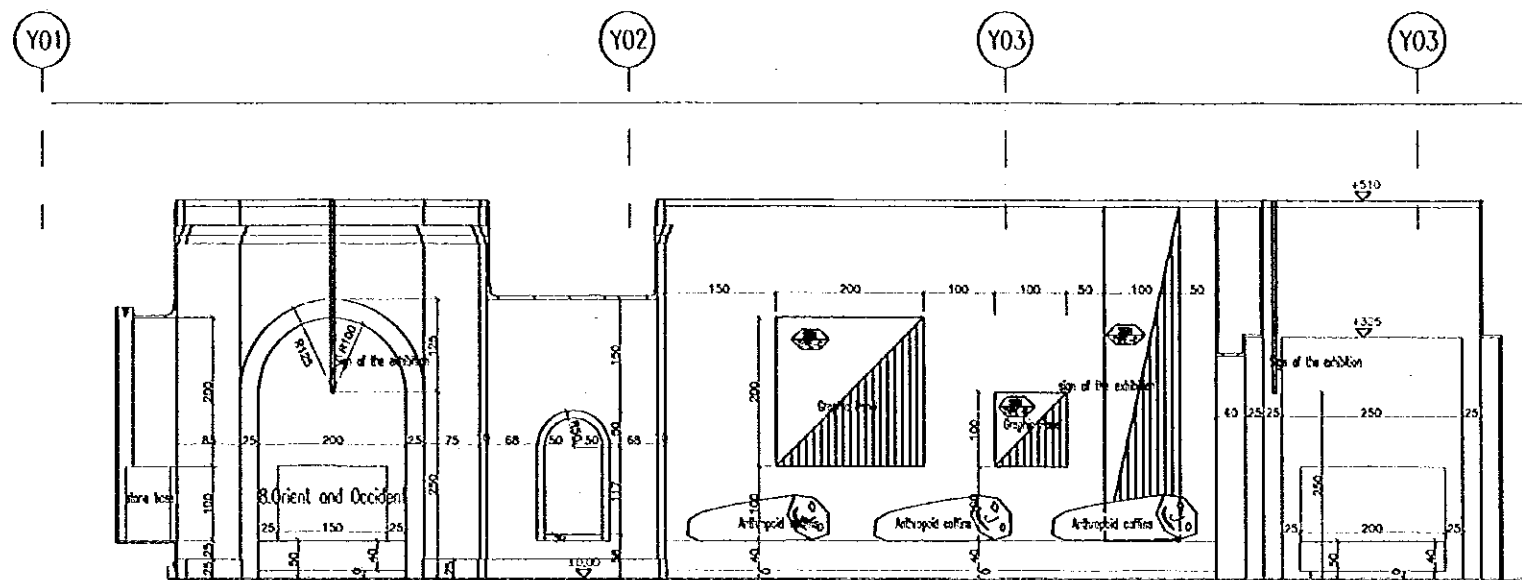
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Drawing No.:

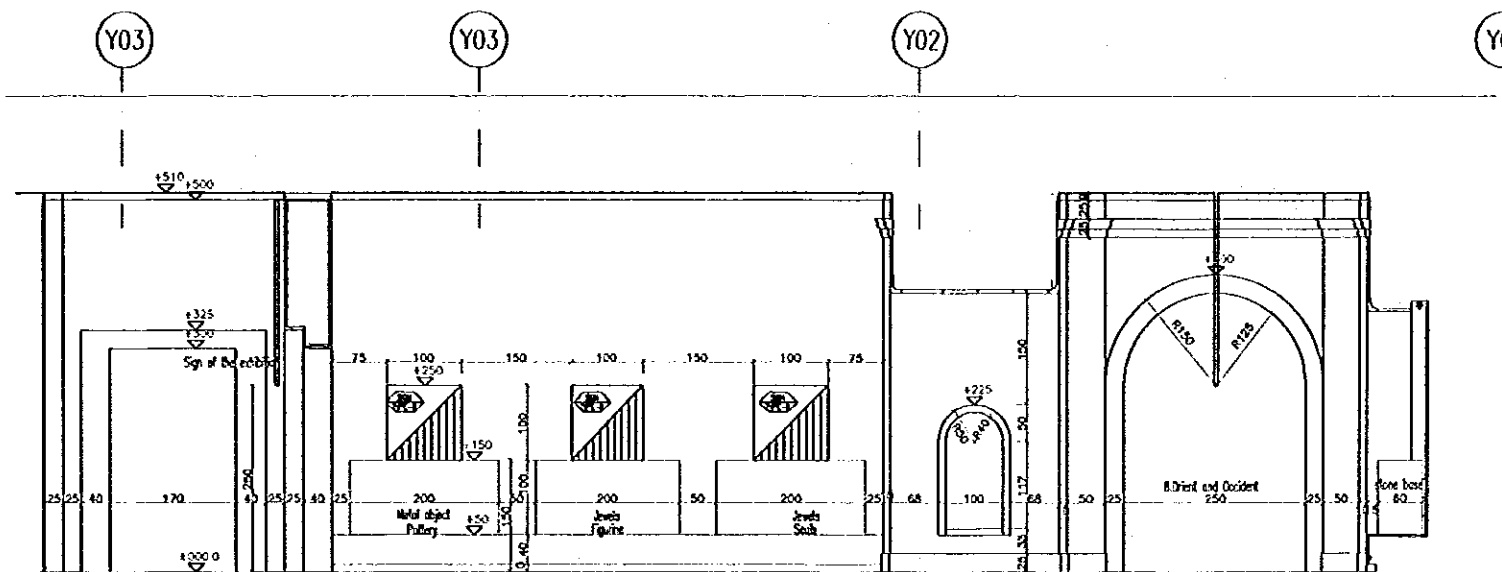
EX-012



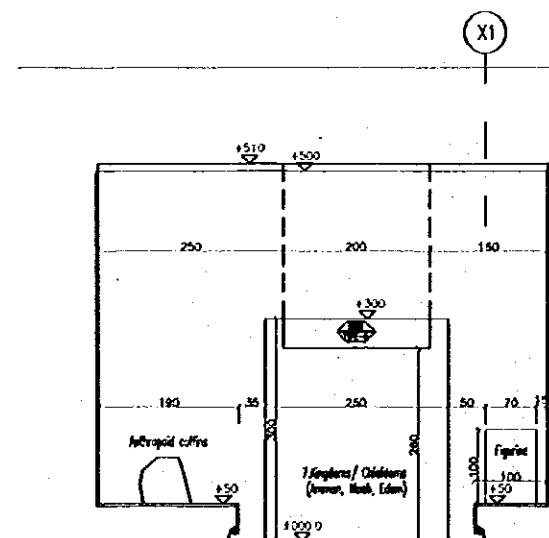
PARTIAL PLAN



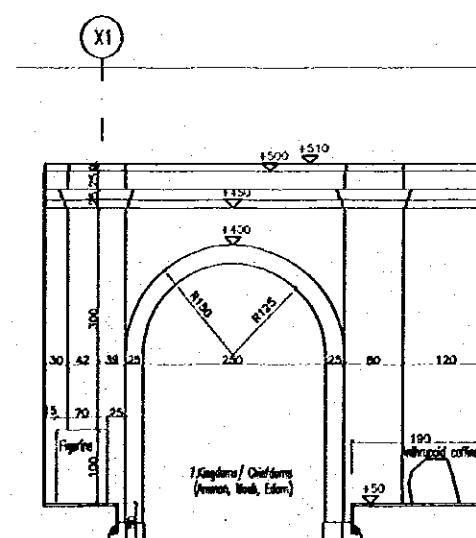
SECTION D-D



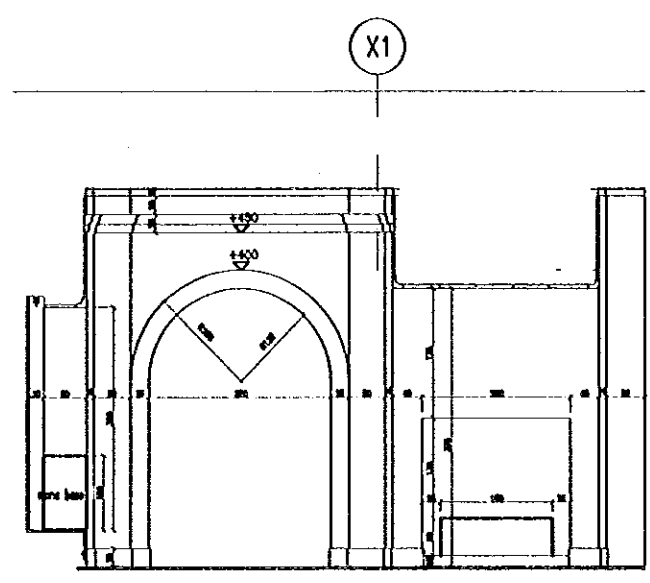
SECTION B-B



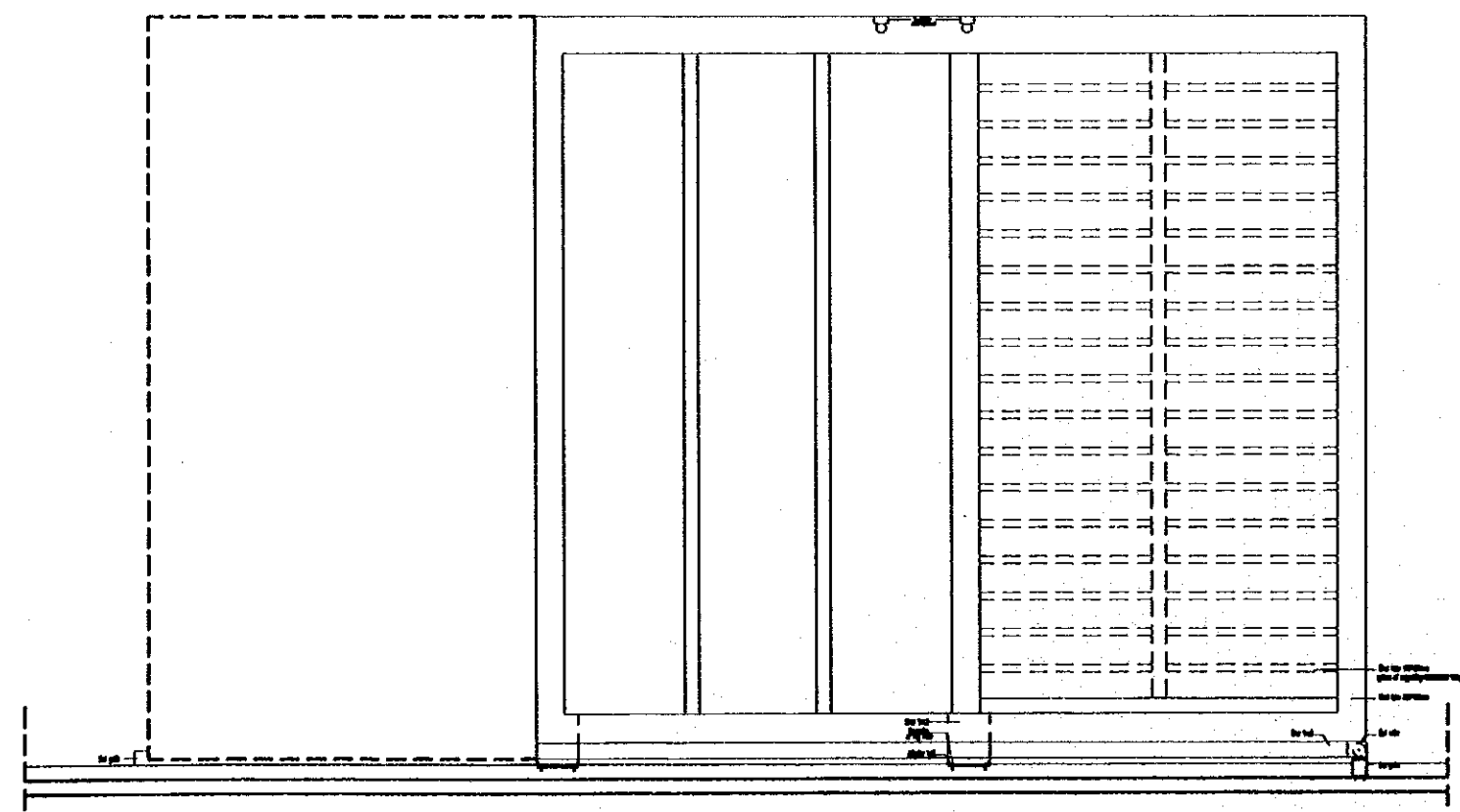
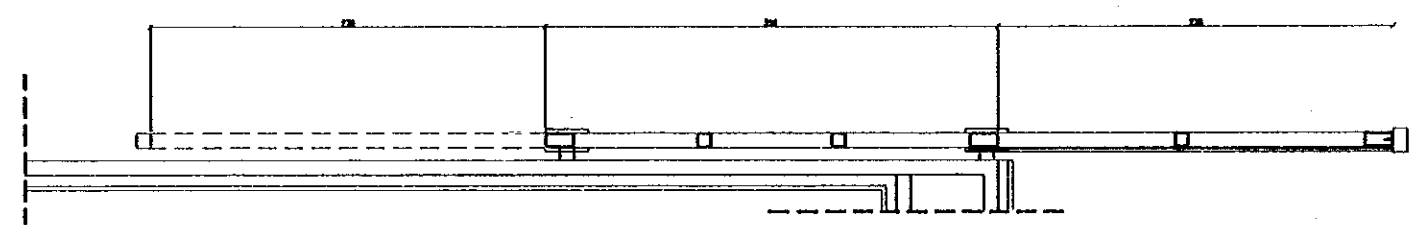
SECTION A-A



SECTION C-C

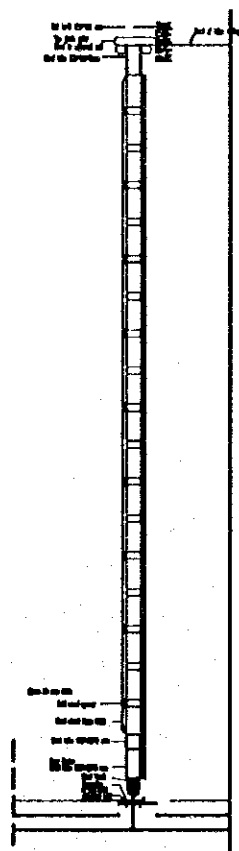


SECTION E-E

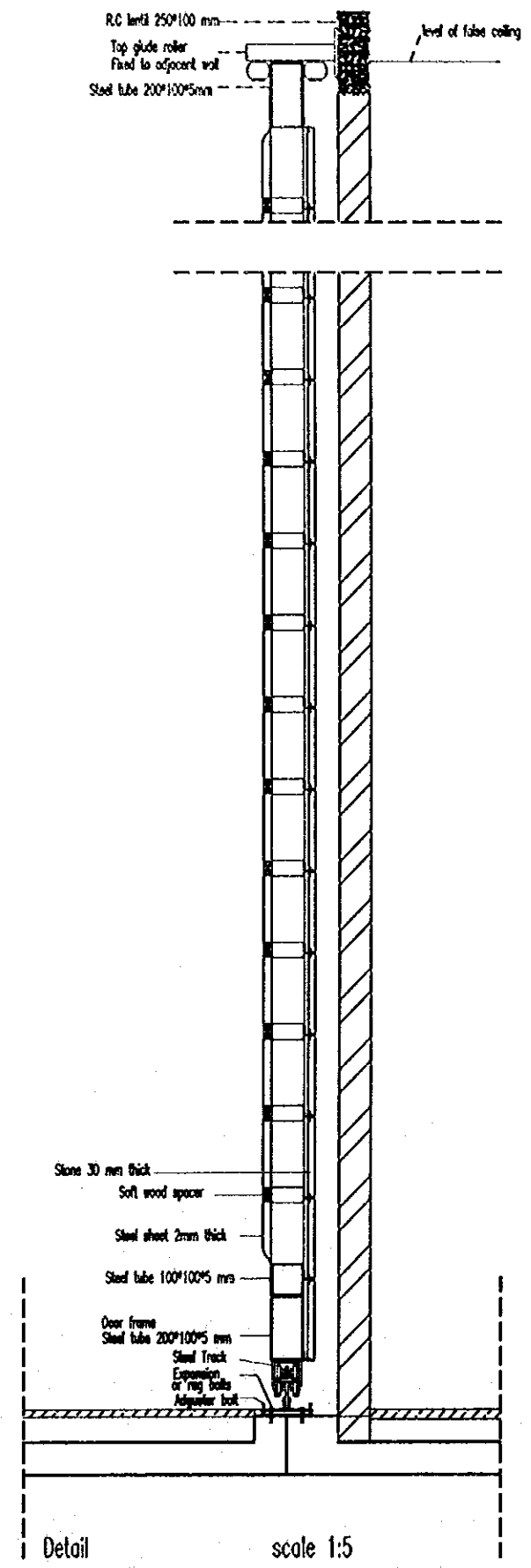


Front elevation

scale 1:20



Cross section



Detail

scale 1:5

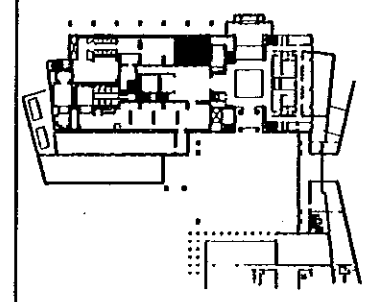
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

The Government of
The Hashemite Kingdom of Jordan
The Ministry of Tourism and Antiquities
The Ministry of Planning

Sub-Project:
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JICA Study Team:
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Subcontracted Local Consultant:
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Drawing Title:
**EXHIBITION HALL-GROUND FLOOR
PARTIAL PLAN-ZONE 6**

Scale: 1:20 Drawing No: EX-013

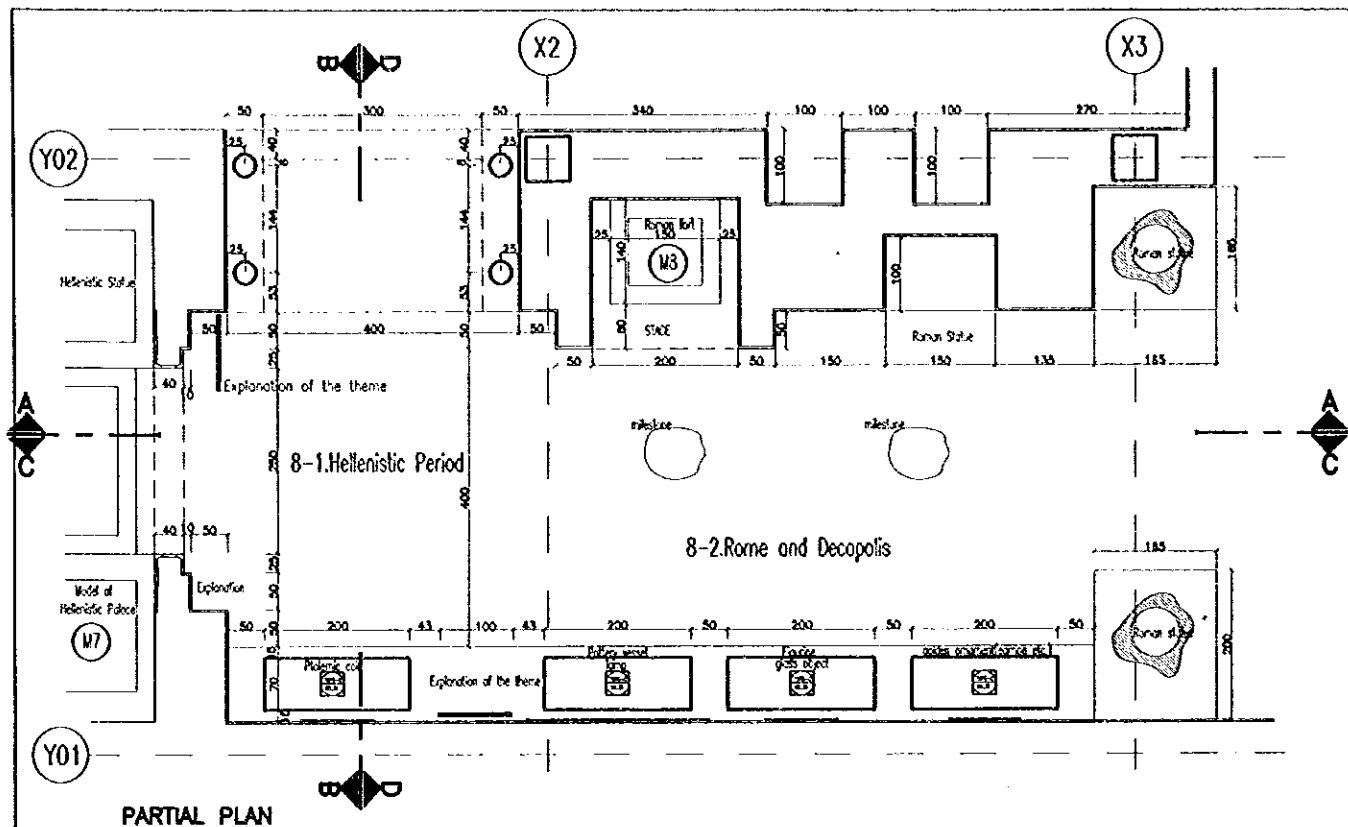
1/23

DETAIL (1-1) for the Stone gate

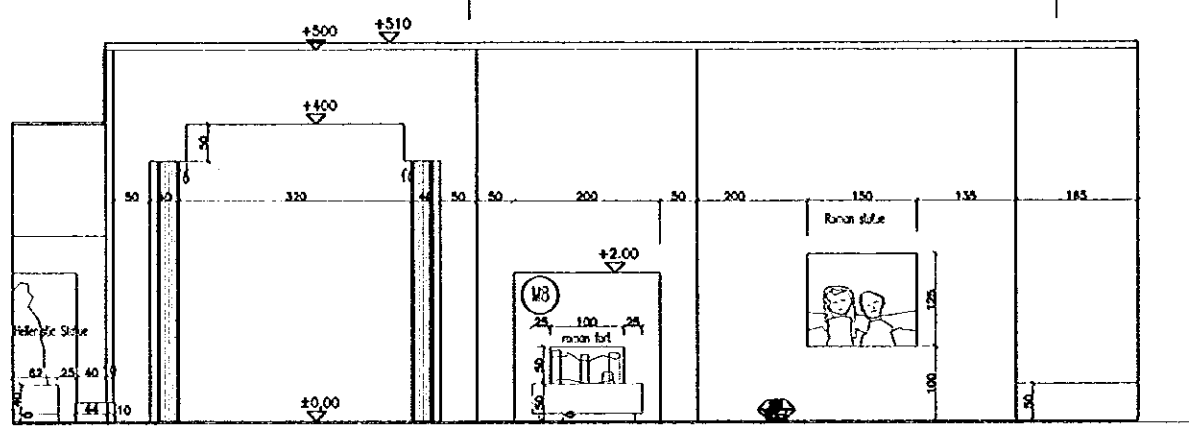
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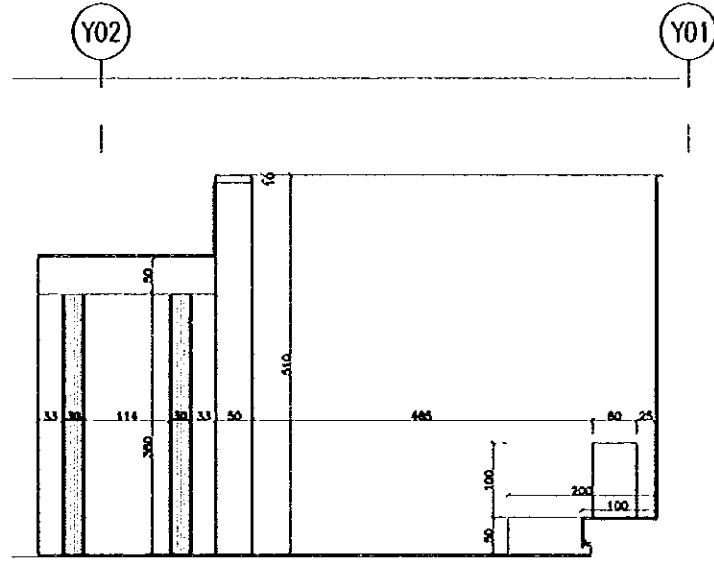
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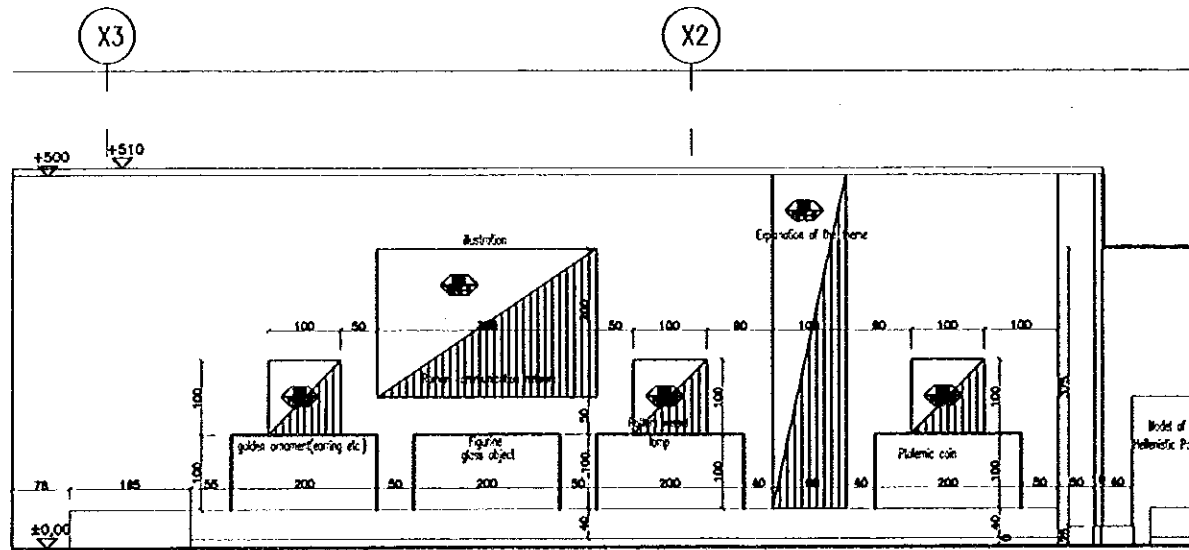
PARTIAL PLAN



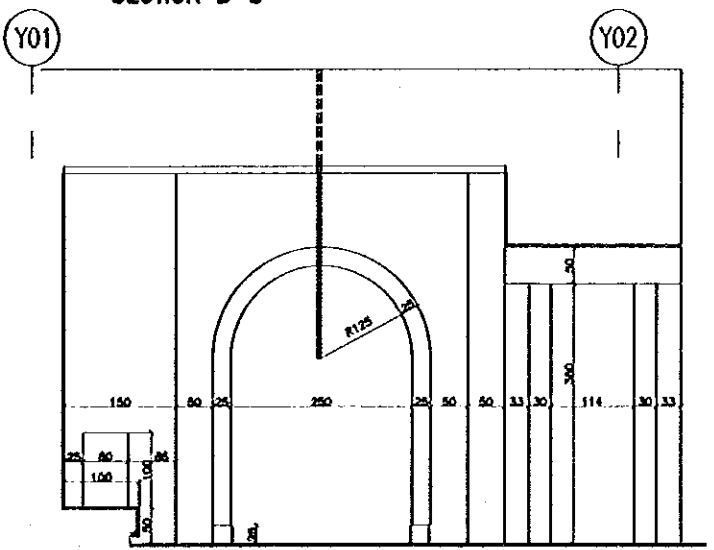
SECTION A-A



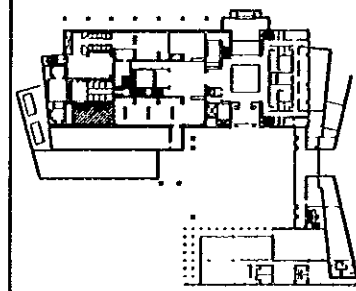
SECTION B-B



SECTION C-C



SECTION D-D



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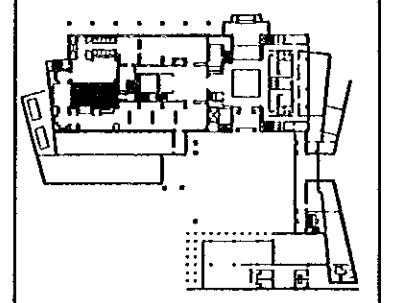
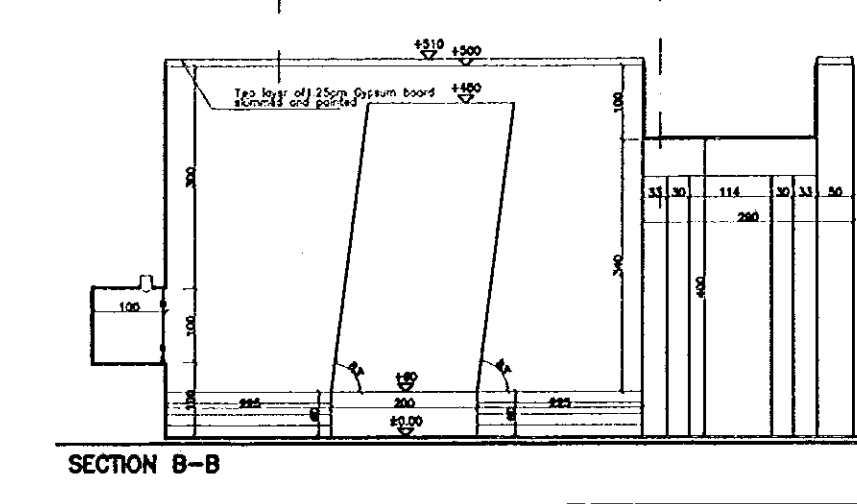
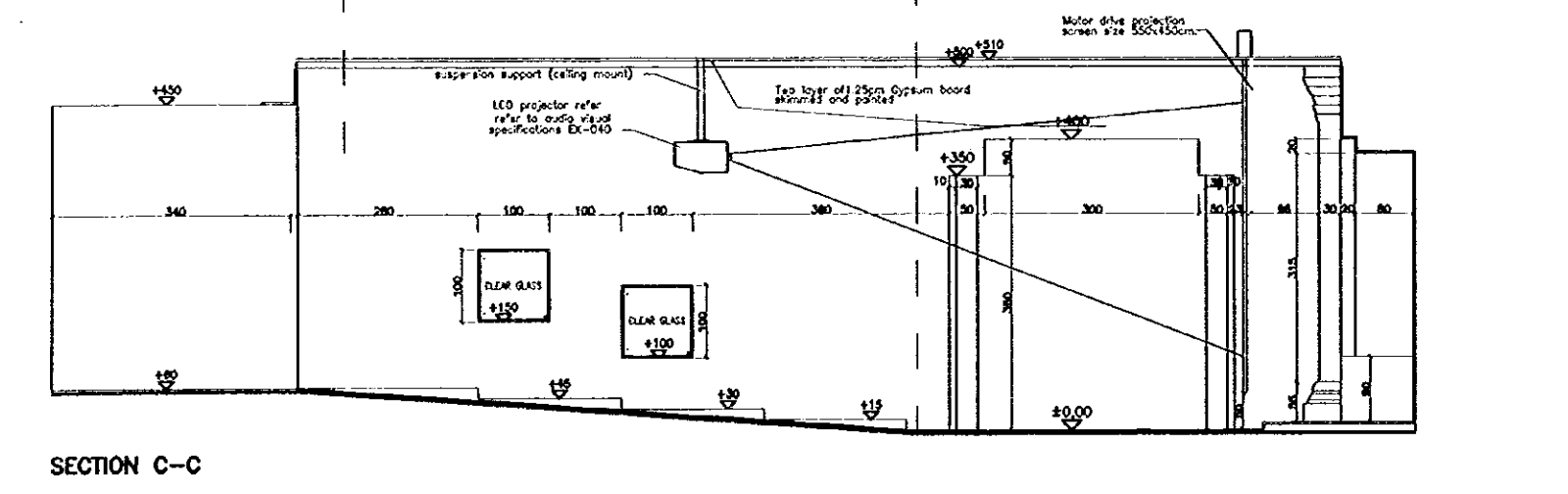
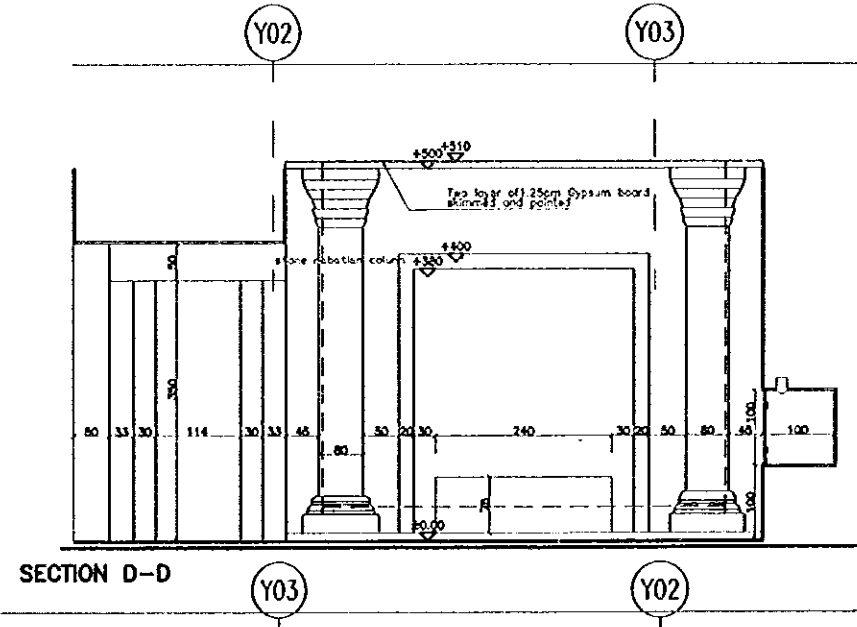
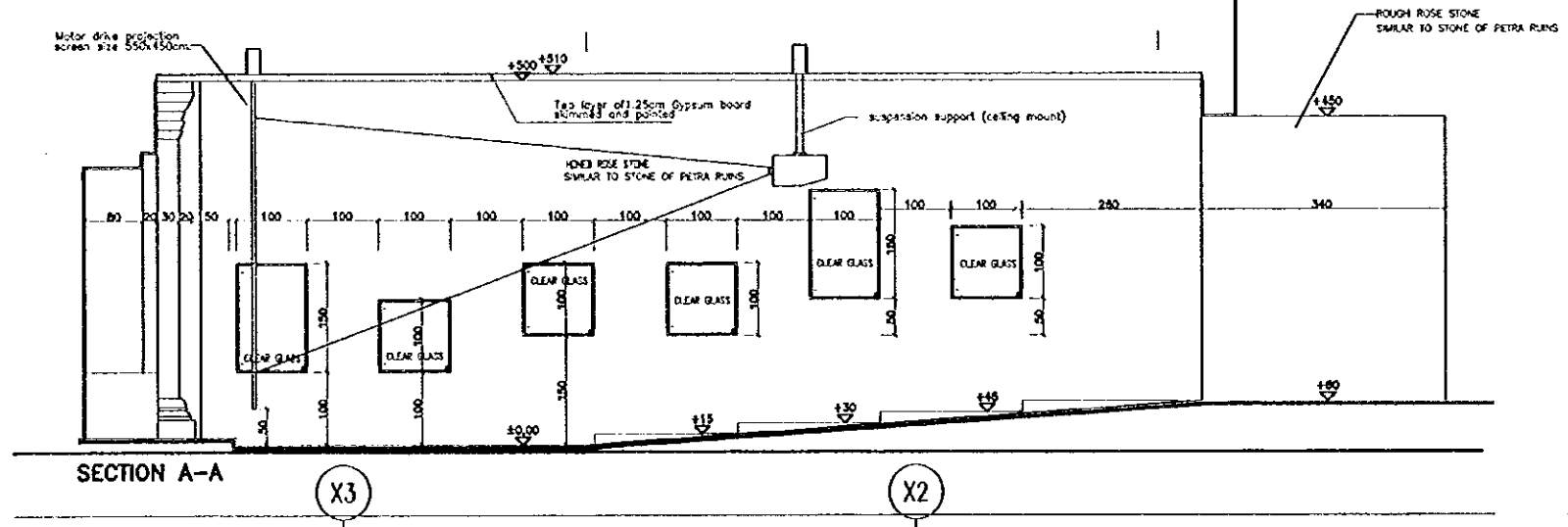
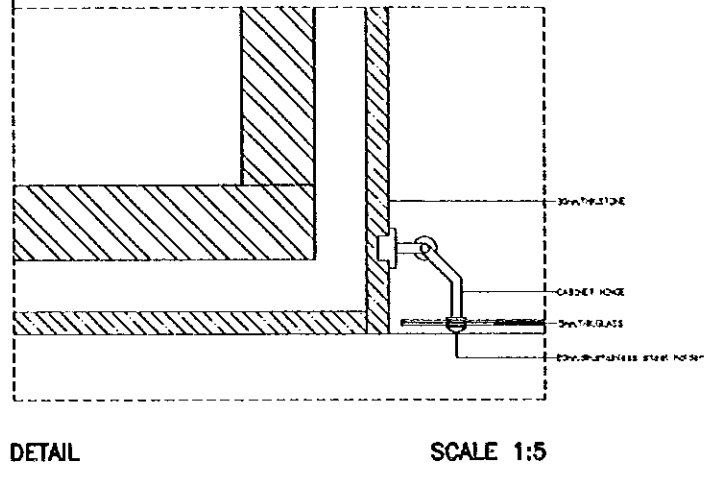
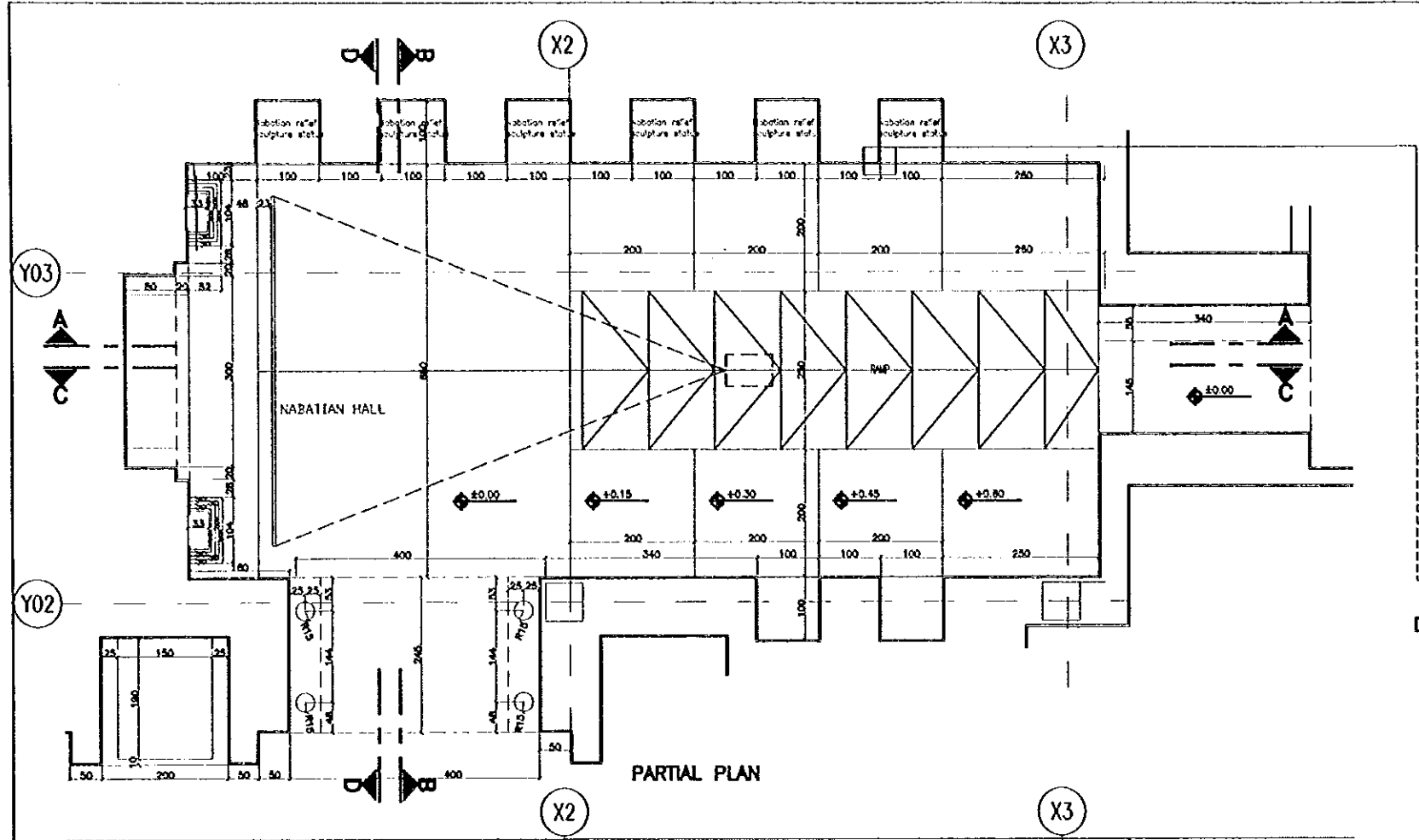
Drawing Title:
**EXHIBITION HALL-GROUND FLOOR
PARTIAL PLAN-ZONE 7**

Scale: 1:80 Drawing No.: EX-014

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Drawing title:
**EXHIBITION HALL-GROUND FLOOR
PARTIAL PLAN-ZONE 8**

Scale: 1:100 Drawing No.: EX-015

Sub-Project:

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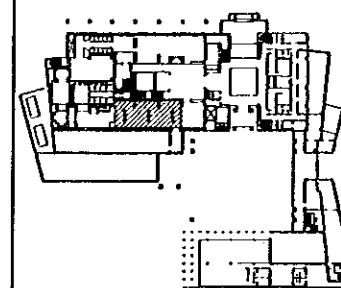
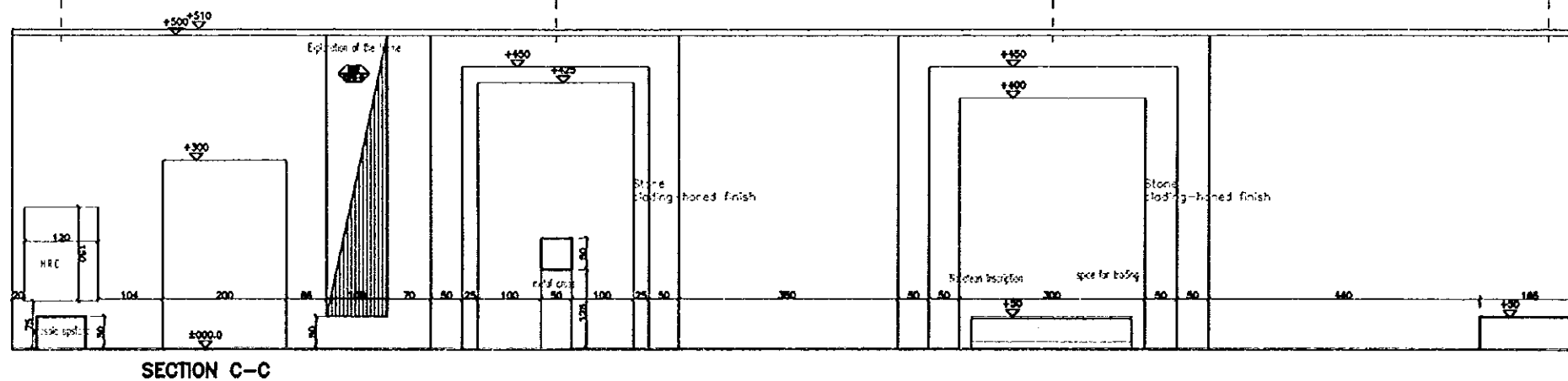
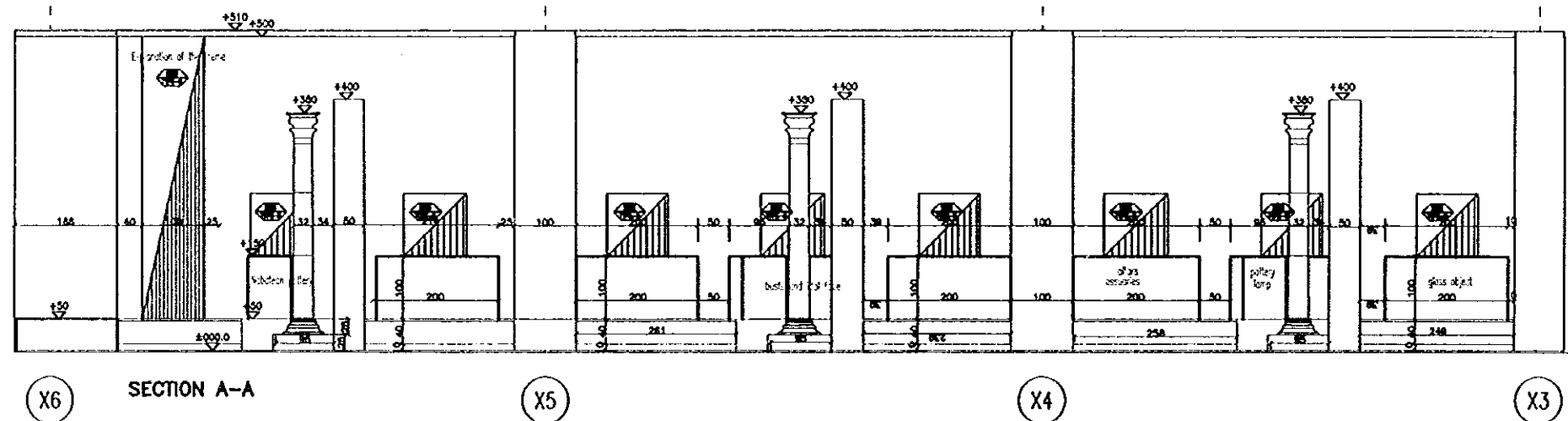
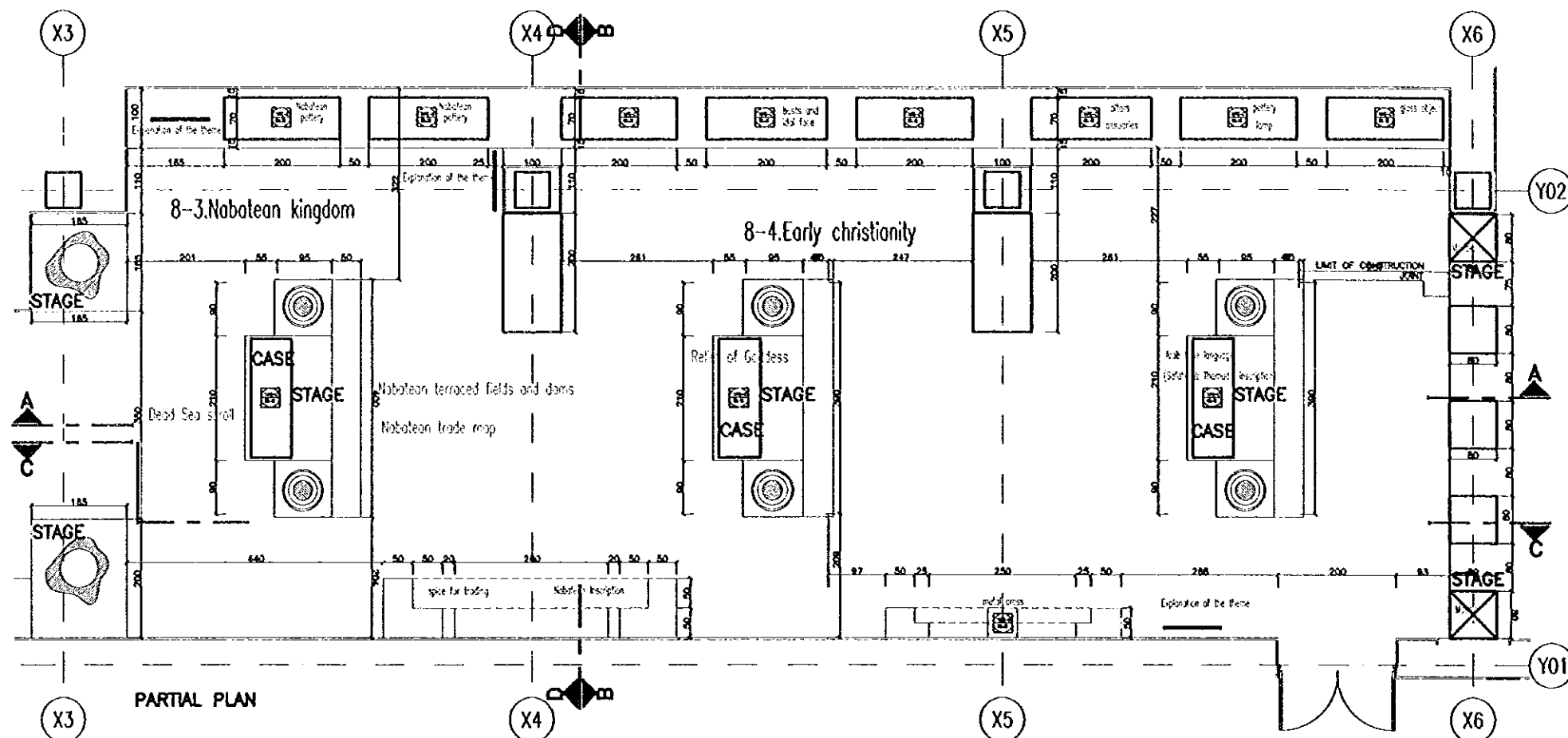
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Subcontracted Local Consultant:

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Drawing Title:

EXHIBITION HALL-GROUND FLOOR
PARTIAL PLAN-ZONE 9

Scale:

1:80

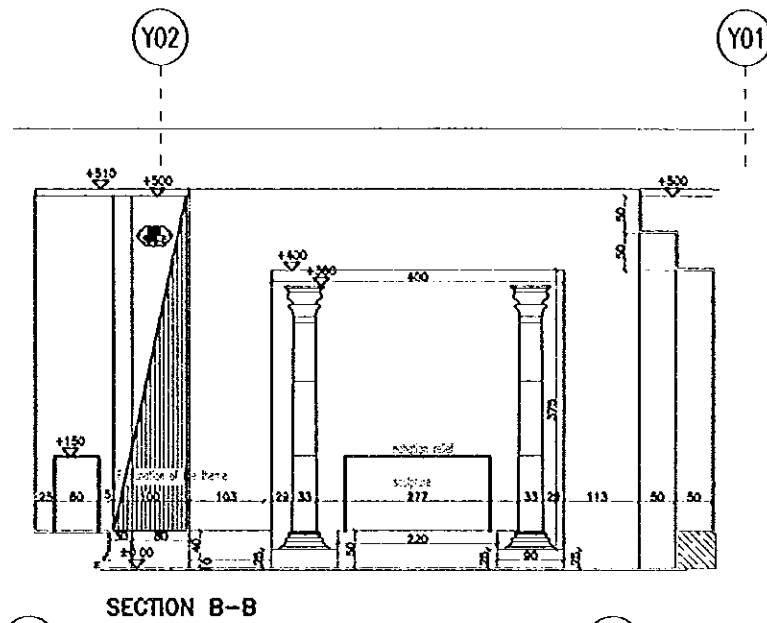
Drawing No.:

EX-016

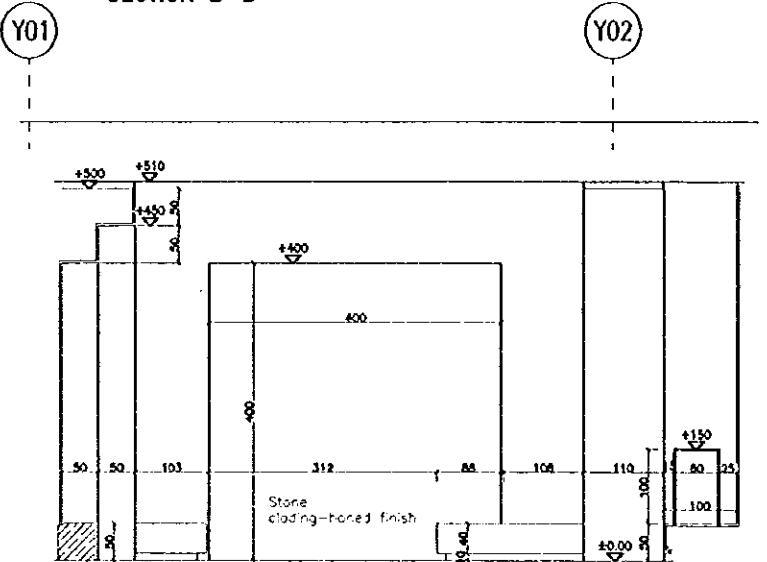
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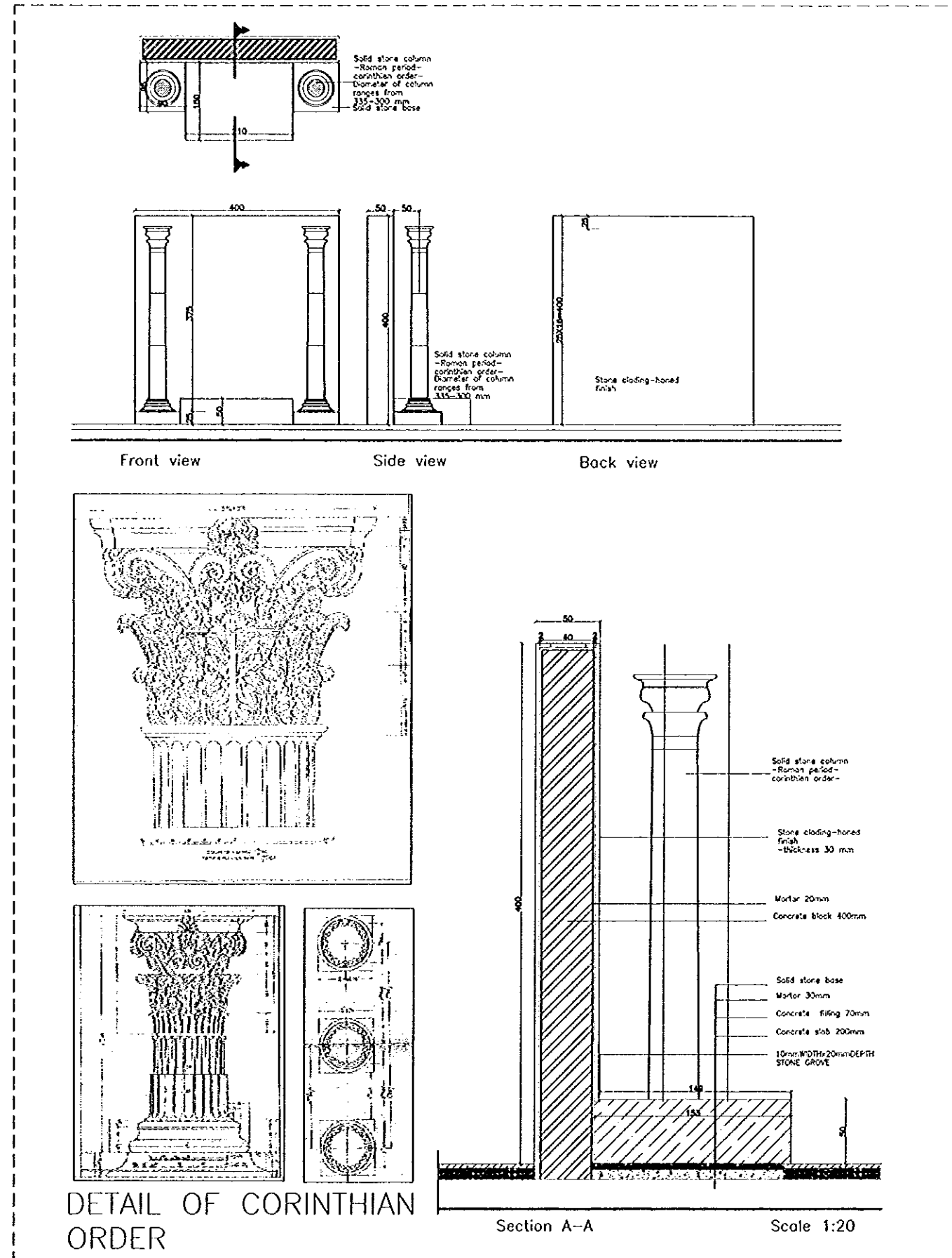
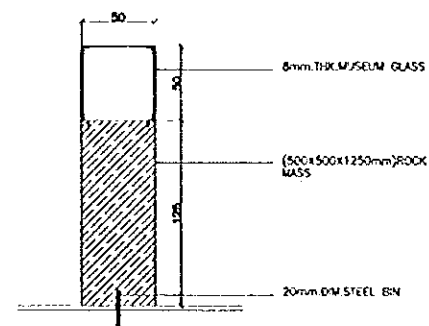
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SECTION B-B

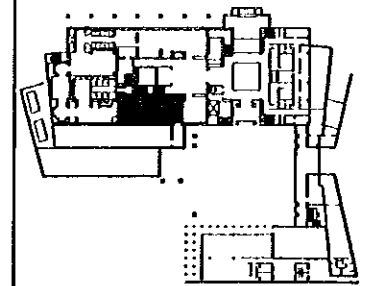


SECTION D-D



DETAIL OF CORINTHIAN
ORDER

Section A-A Scale 1:20



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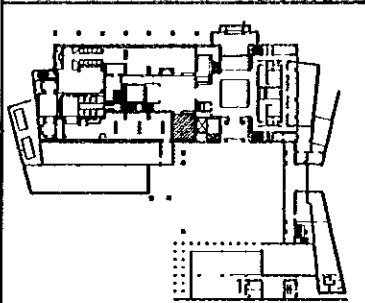
Drawing Title:
**EXHIBITION HALL-GROUND FLOOR
PARTIAL PLAN-ZONE 9**

Scale: 1:20 Drawing No.: EX-017

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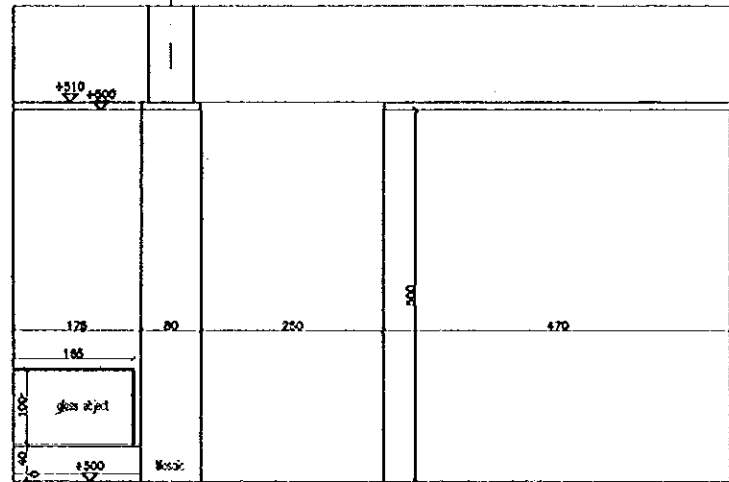
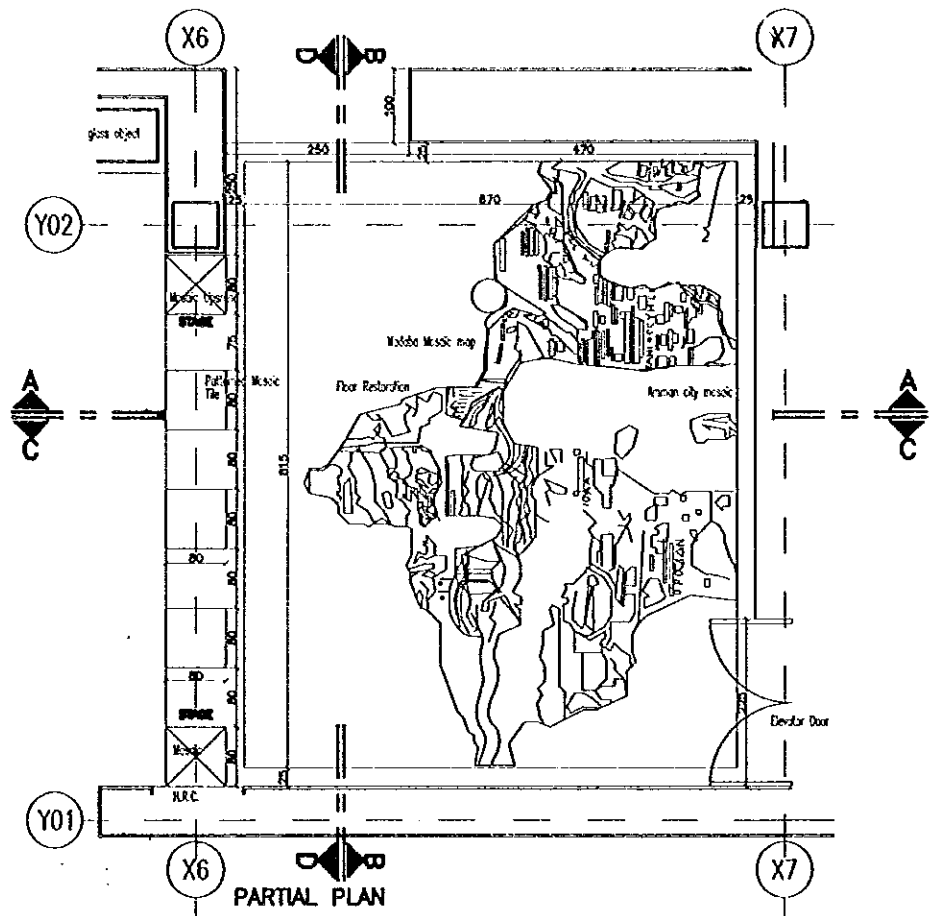
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*For details of show and model cases
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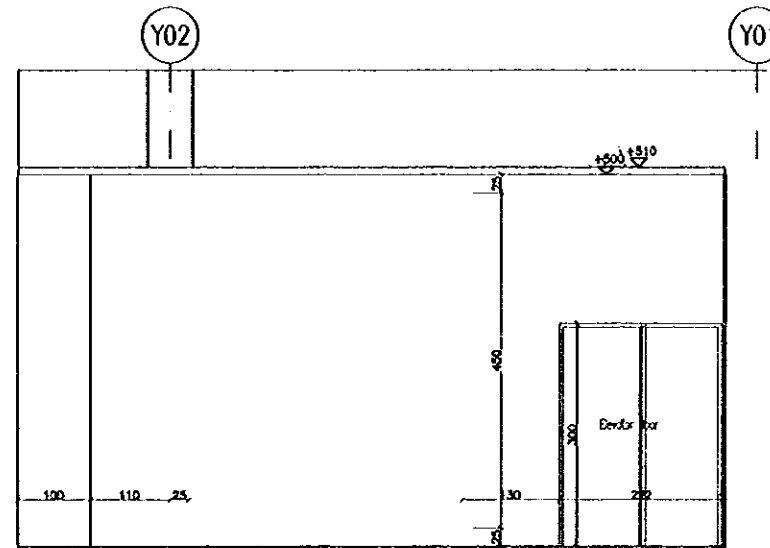
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Subcontracted Local Consultant:
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Architects and Engineers

Drawing Title:
**EXHIBITION HALL - GROUND FLOOR
PARTIAL PLAN - ZONE 10**

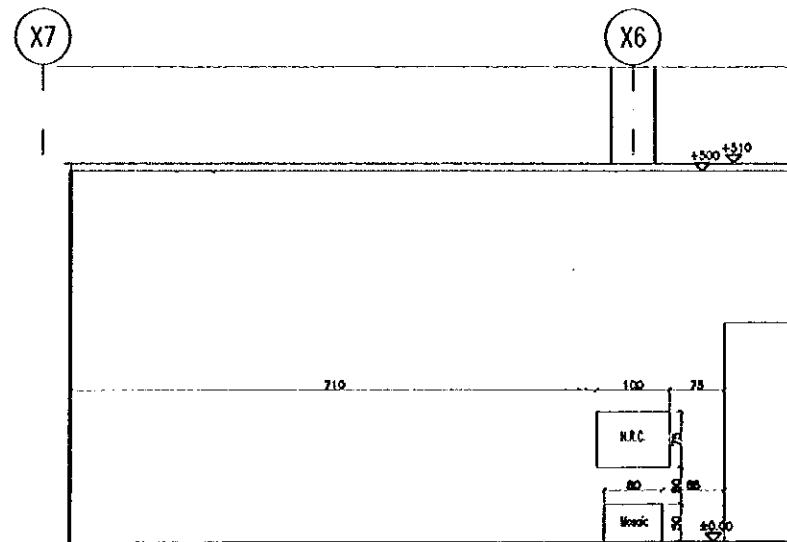
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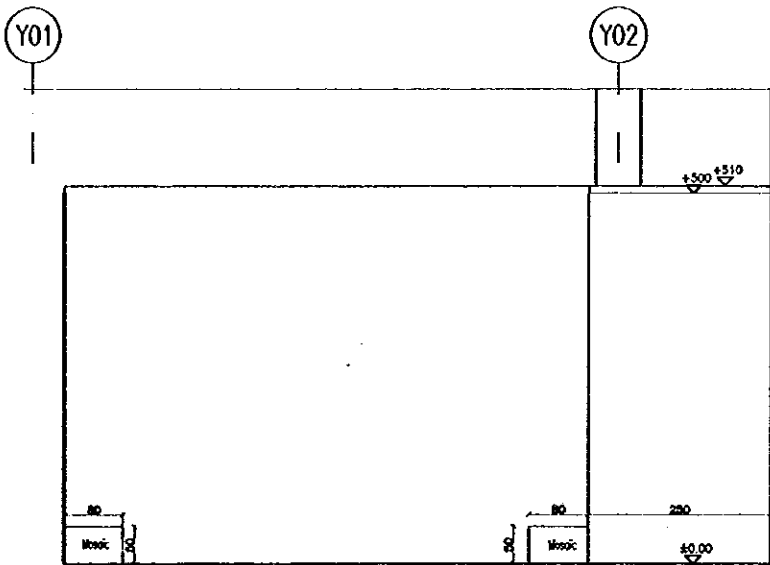
SECTION A-A



SECTION B-B



SECTION C-C

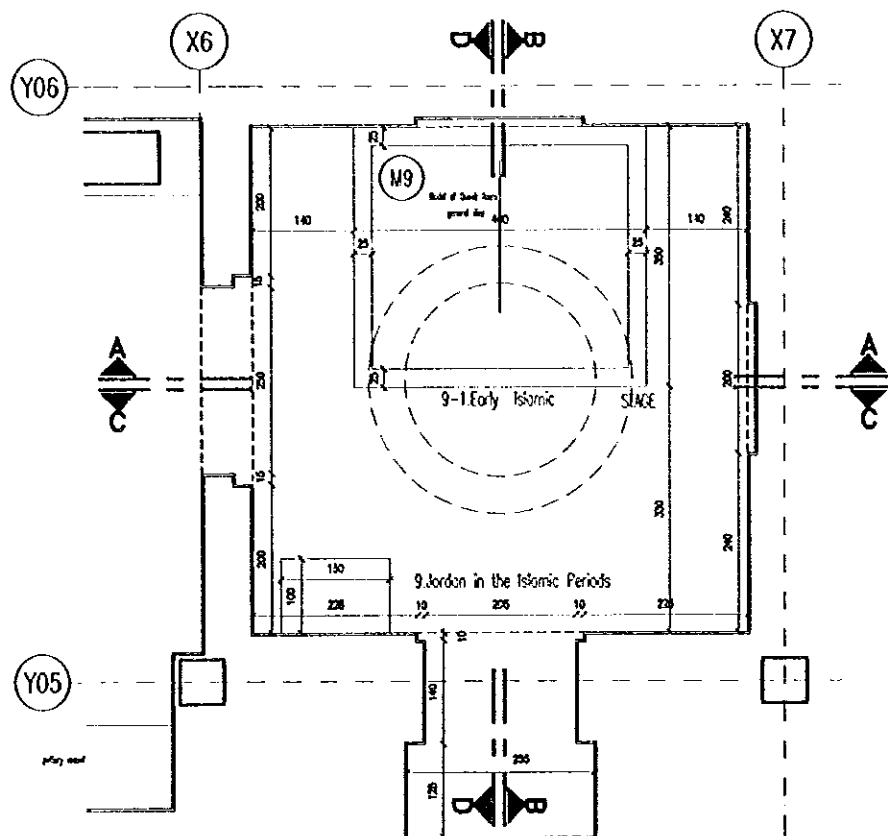


SECTION D-D

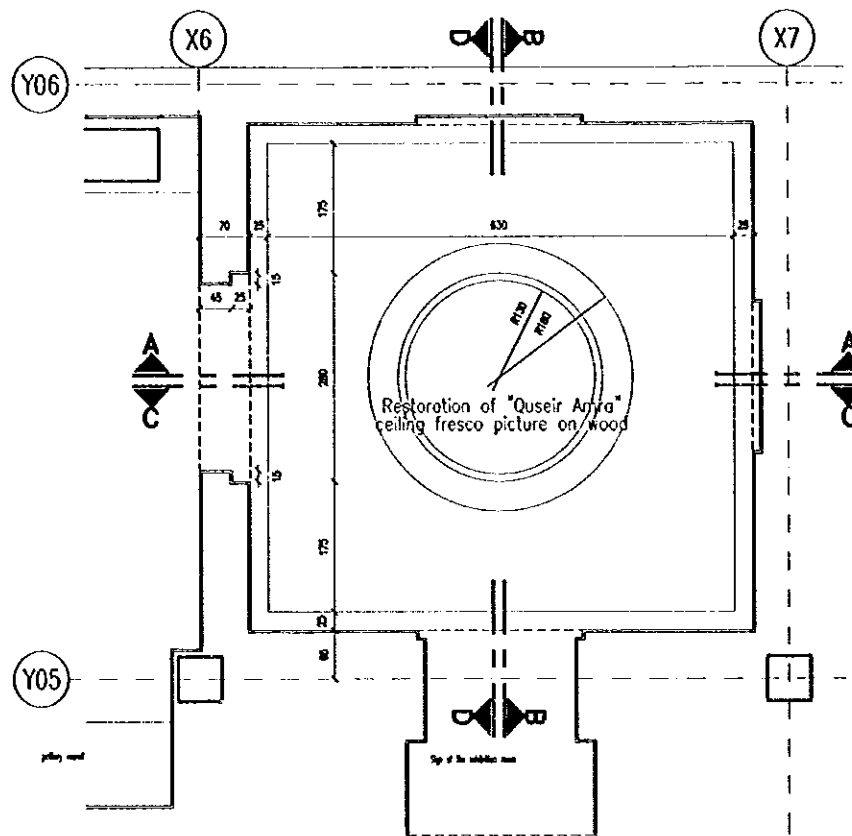
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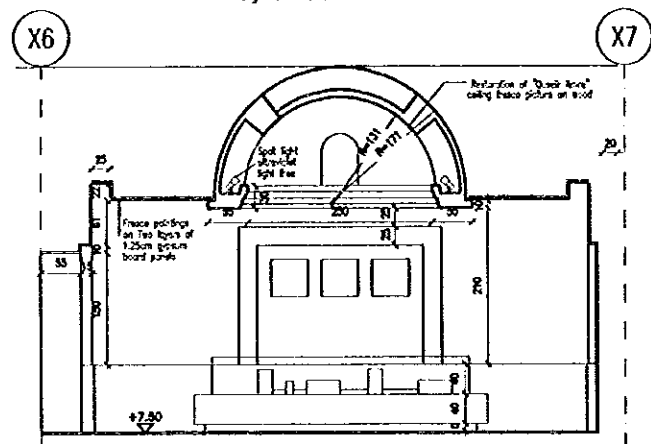
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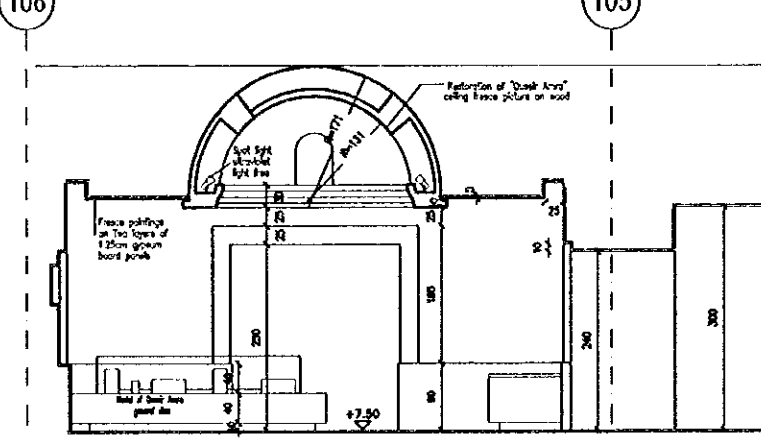
PARTIAL PLAN
Sign of the exhibition room



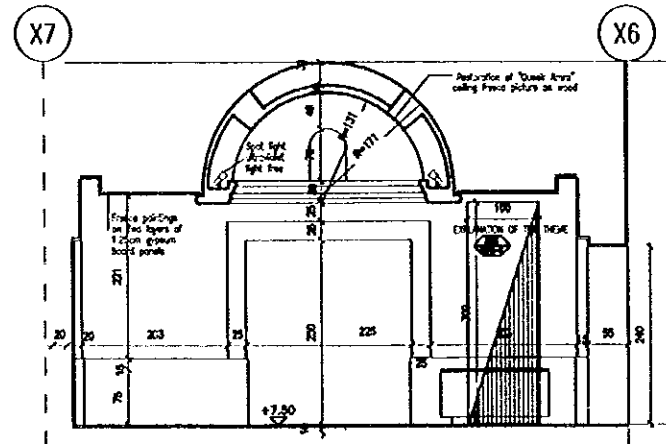
PARTIAL REFLECTED CEILING PLAN



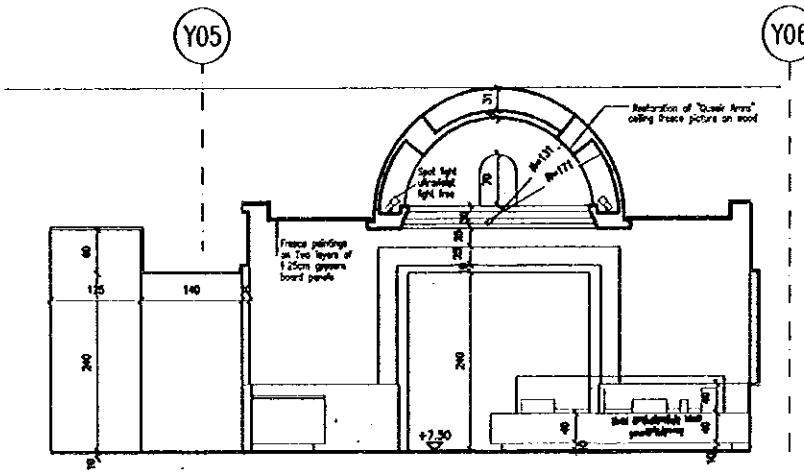
SECTION A-A



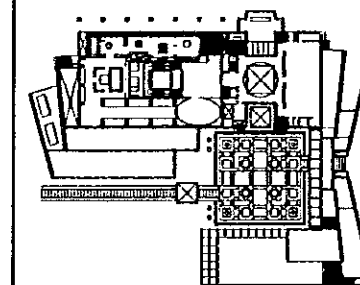
SECTION B-B



SECTION C-C



SECTION D-D



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Subcontracted Local Consultant:
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Drawing Title:
**EXHIBITION HALL—SECOND FLOOR
PARTIAL PLAN — ZOE 2**

Scale: 1:80 Drawing No.: EX-019

Sub-Project:

NATIONAL MUSEUM

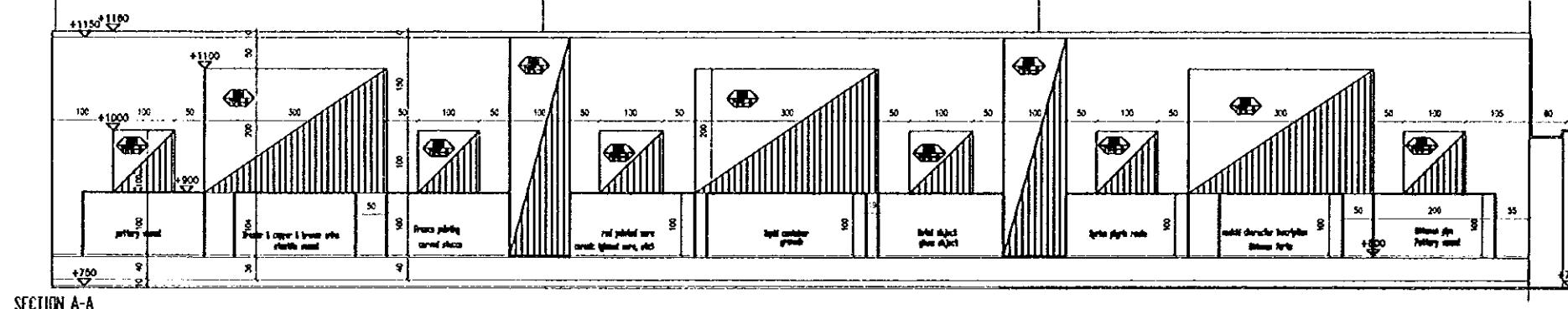
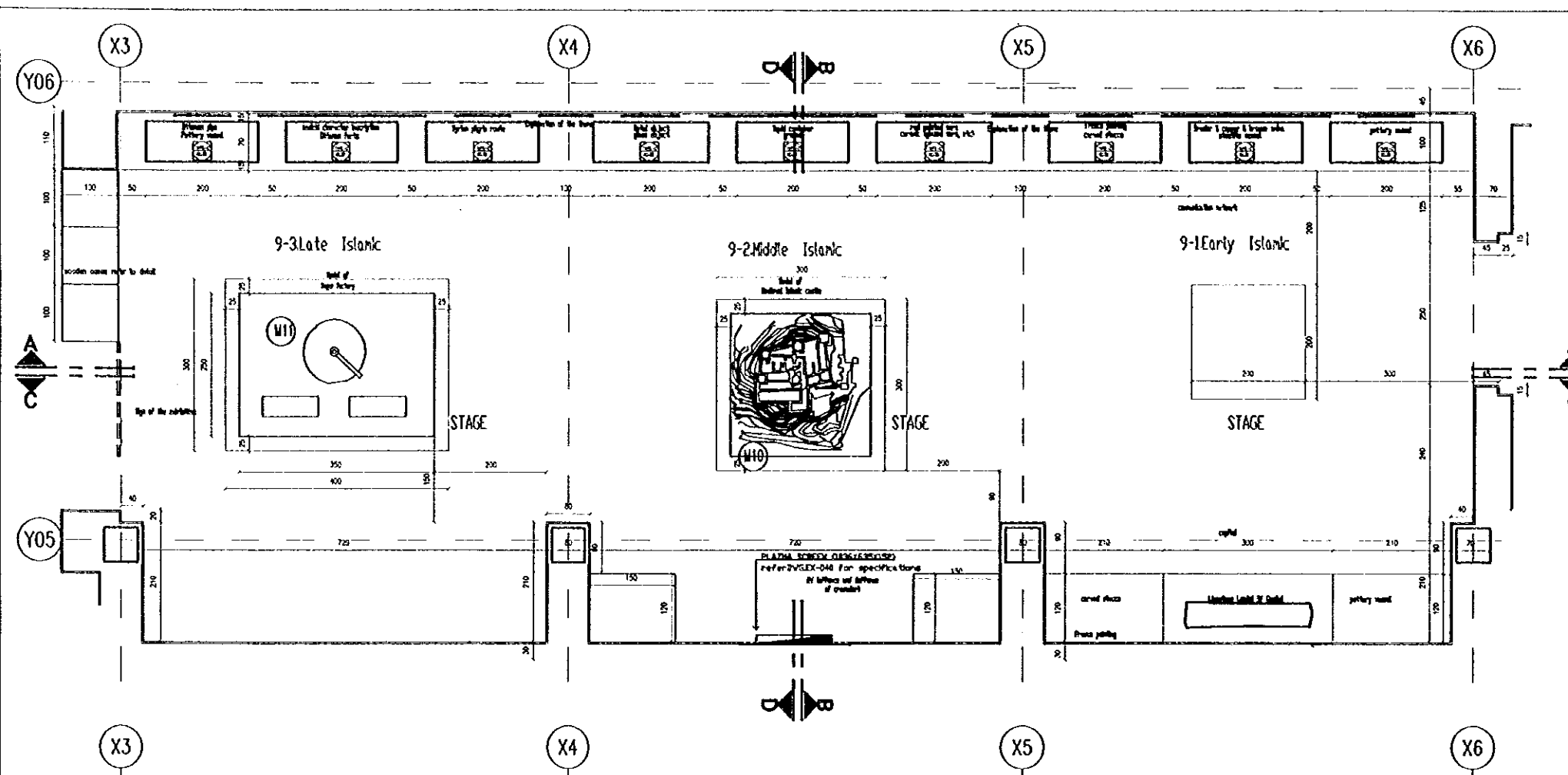
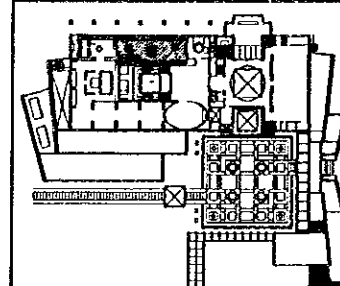
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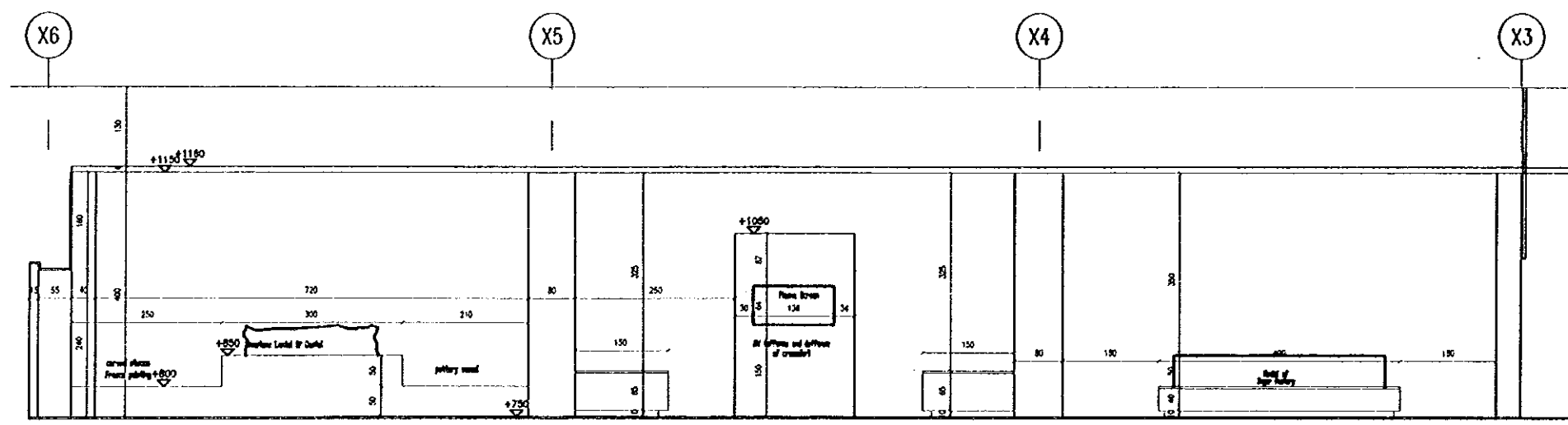
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SECTION A-A



SECTION C-C

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Subcontracted Local Consultant:

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Drawing Title:

EXHIBITION HALL—SECOND FLOOR
PARTIAL PLAN—ZONE 3

Scale:

1:80

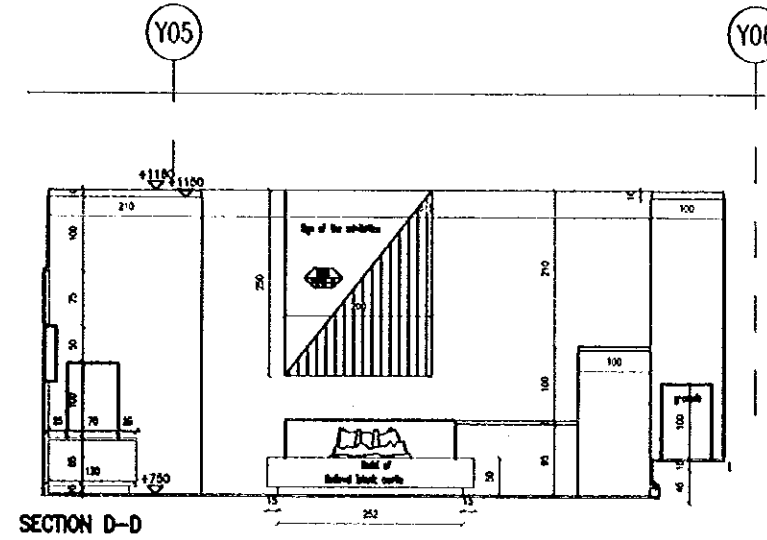
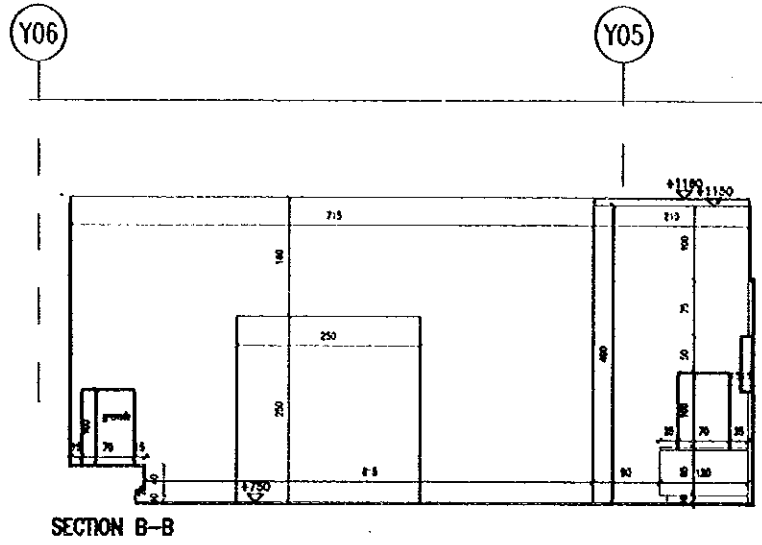
Drawing No.:

EX-020

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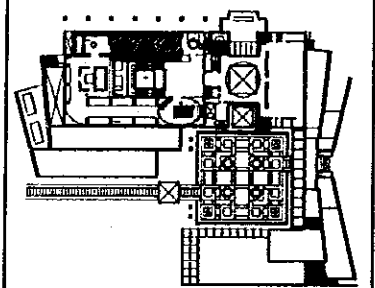
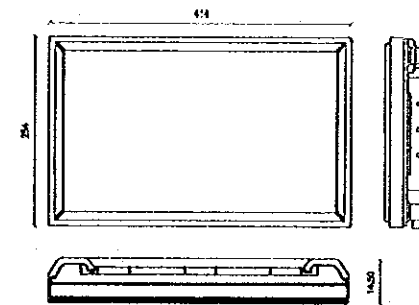
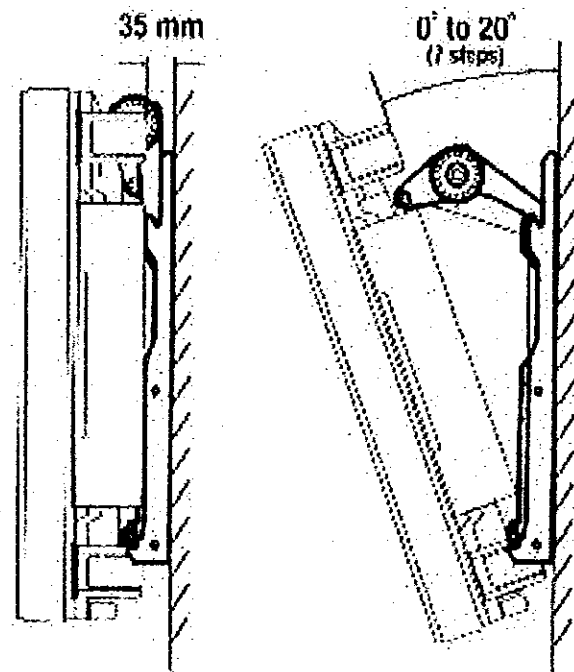
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*For audio visual specifications, refer to DWG. EX-040,41



MB-514

Mounting Bracket

- For wall-mounting installation
- Monitors can be tilted 0 to 20 degrees downward from the wall in 7 locking steps for added safety
- Separate parts for easy installation
- Shock-absorbing gas damper for safety operation



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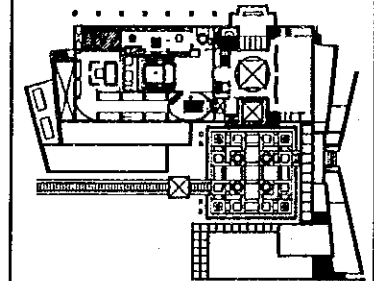
Drawing Title:
EXHIBITION HALL-SECOND FLOOR PARTIAL PLAN-ZONE 3

Scale: 1:80 Drawing No.: EX-021

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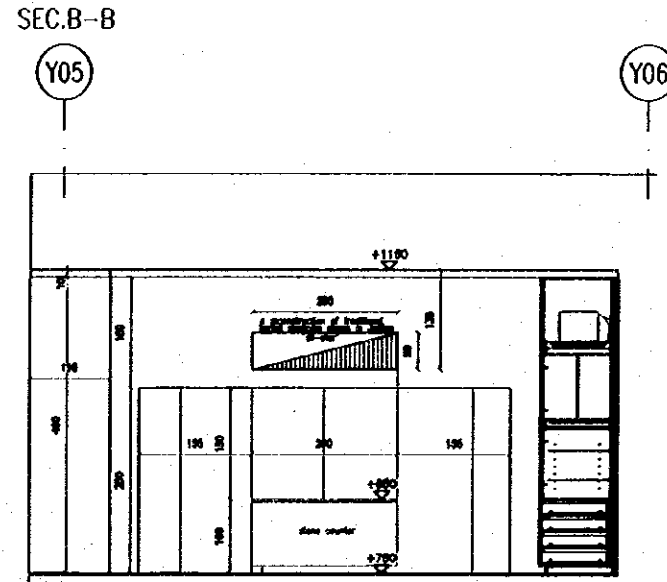
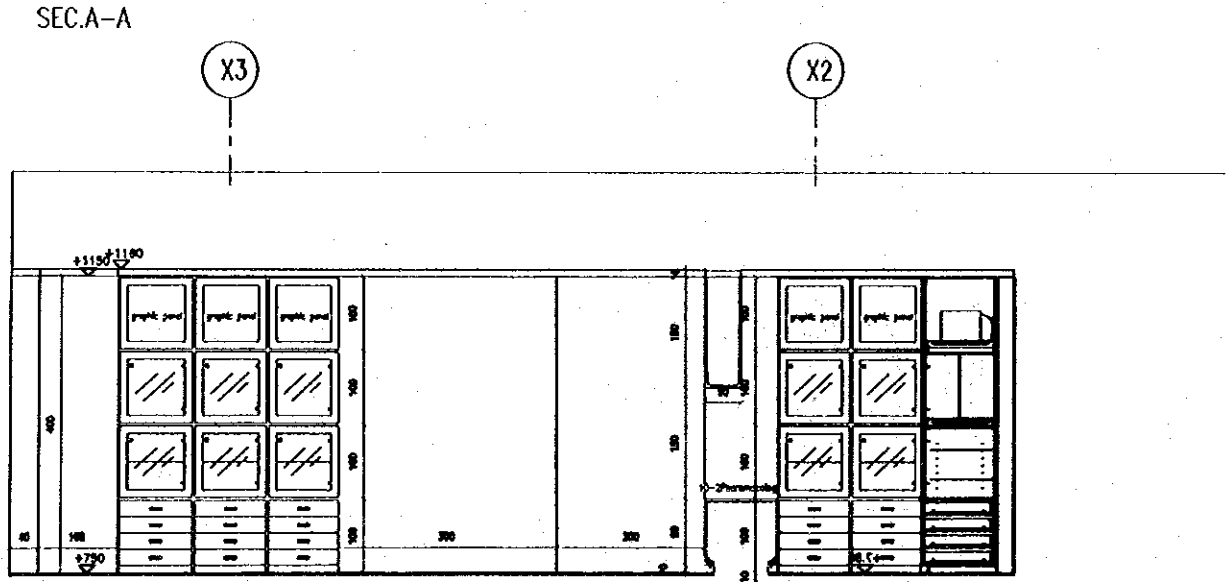
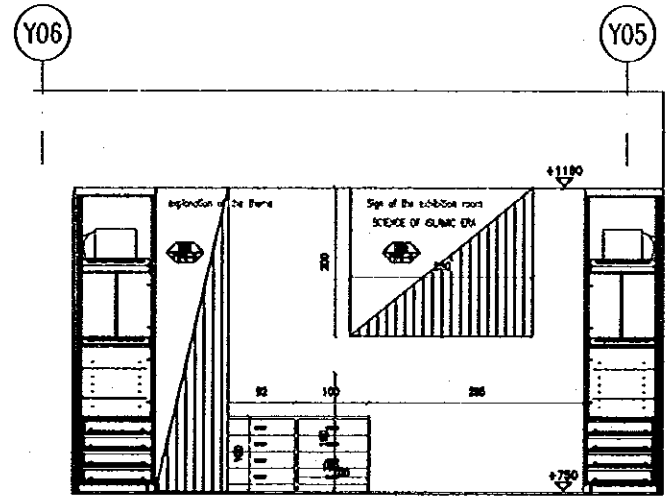
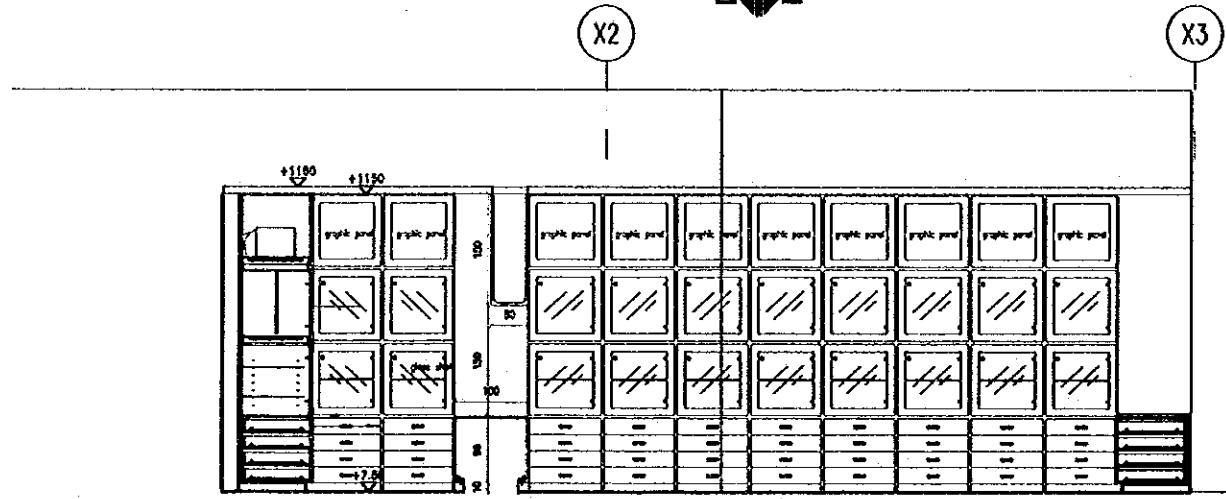
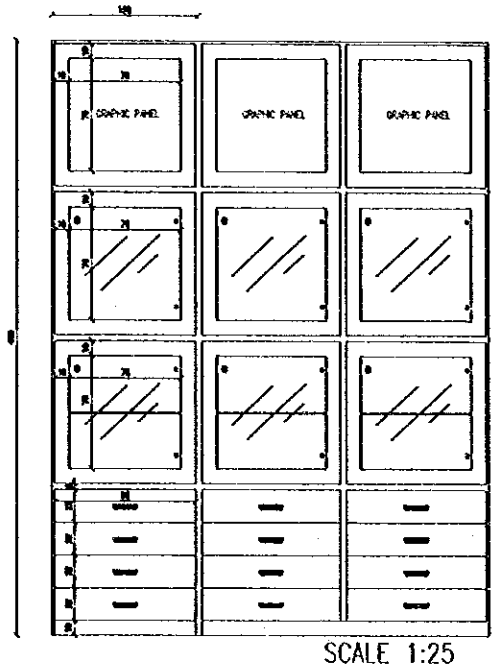
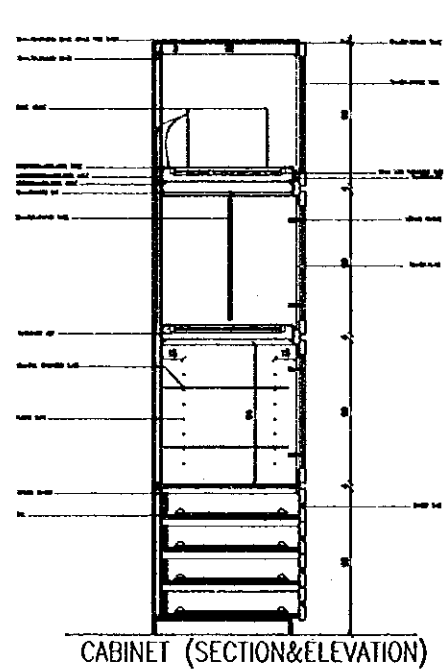
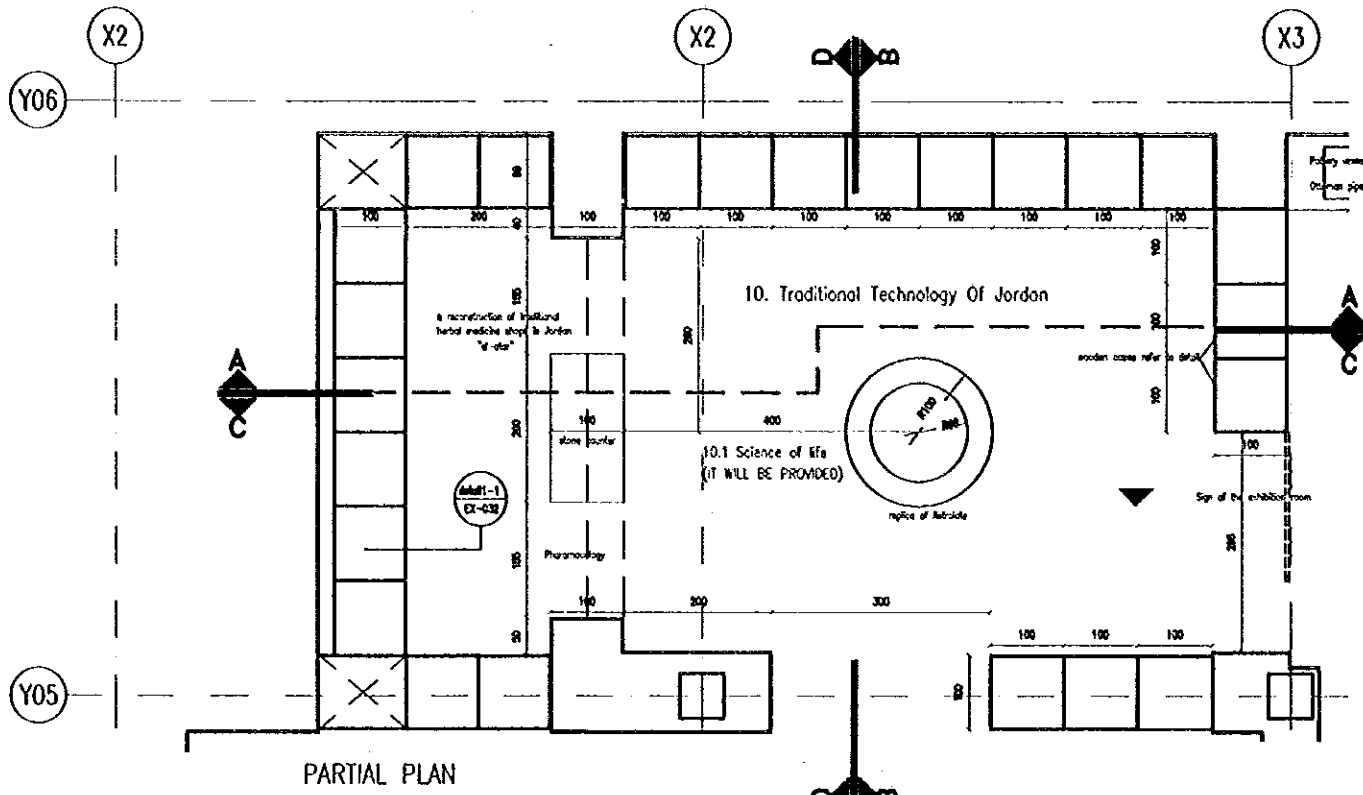
REMARKS
*For signage types and specifications
refer to DWG. EX-039,
for details refer to details.
*For details of show and model cases
refer to detail drawings subject to
case specified type.
*For audio visual specifications, refer
to DWG. EX-040,41



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JICA Study Team:
Joint Venture of
Pacific Consultants International and
Yamashita Sekkel Inc.
Subcontracted Local Consultant:
Jafar Tukan and Partners
Architects and Engineers

Drawing Title:
**EXHIBITION HALL—SECOND FLOOR
ZONE - 4**

Scale: 1:100 Drawing No.: EX-022



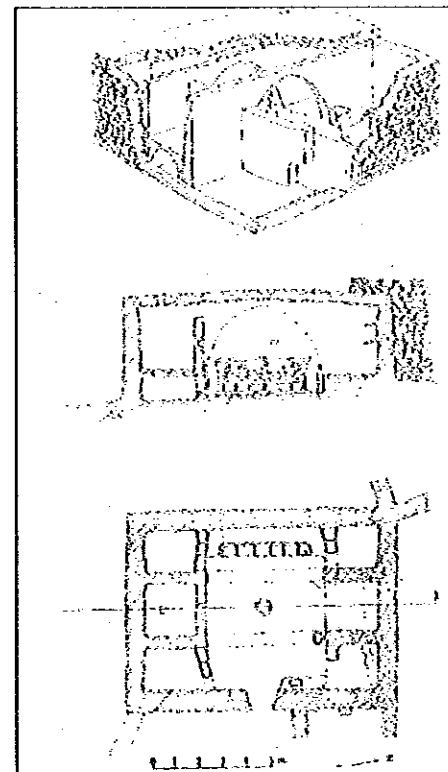
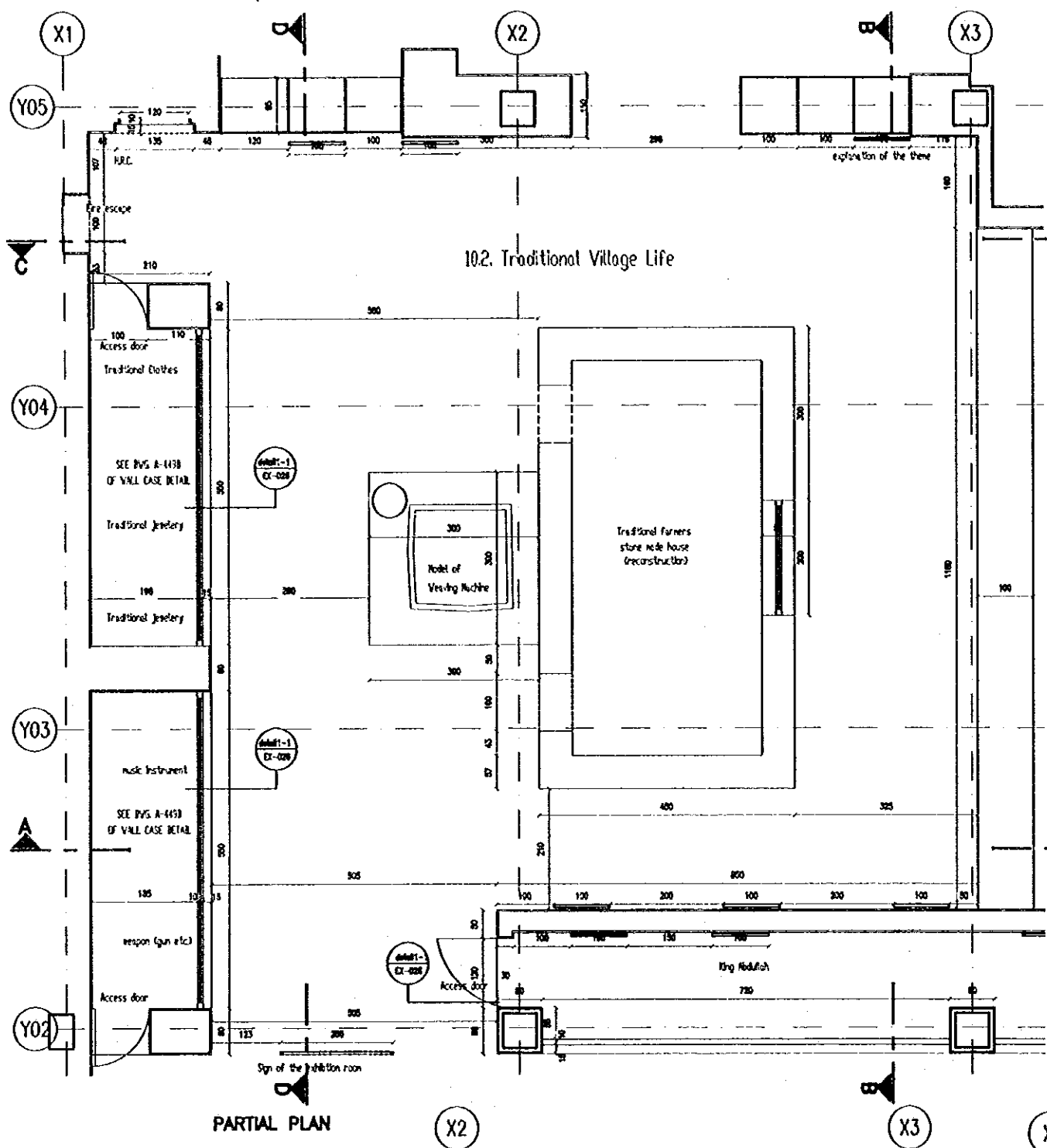
Note:

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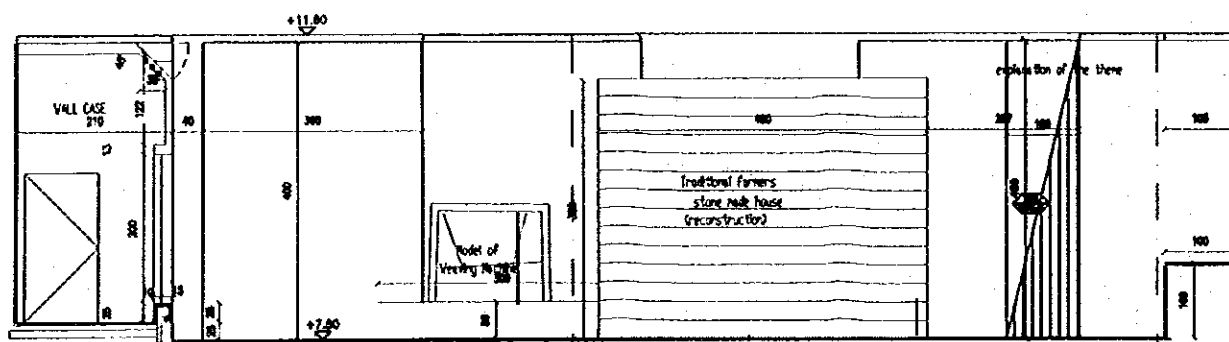
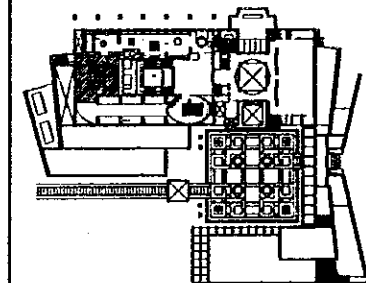
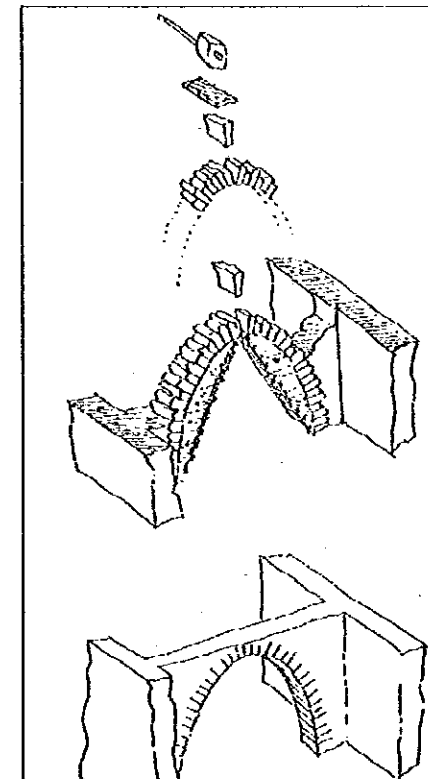
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REMARKS

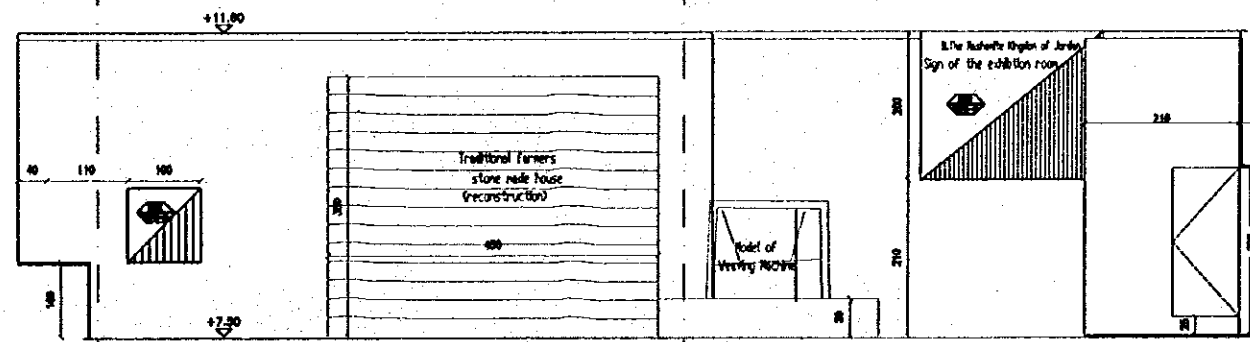
- *For signage types and specifications refer to DWG. EX-039.
- *For details refer to details.
- *For details of show and model cases refer to detail drawings subject to case specified type.
- *For audio visual specifications, refer to DWG. EX-040,41



IMAGES



SECTION A-A



SECTION C-C

Designed by:

Japan International Cooperation Agency (JICA)

JICA Study Team:

Joint Venture of Pacific Consultants International and Yamashita Sekkel Inc.

Subcontracted Local Consultant:

Jafor Tukan and Partners Architects and Engineers

Drawing title:

EXHIBITION HALL—SECOND FLOOR
PARTIAL PLAN—ZONE B

Scale:

1:80

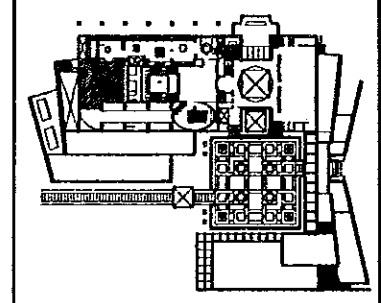
Drawing No.:

EX-023

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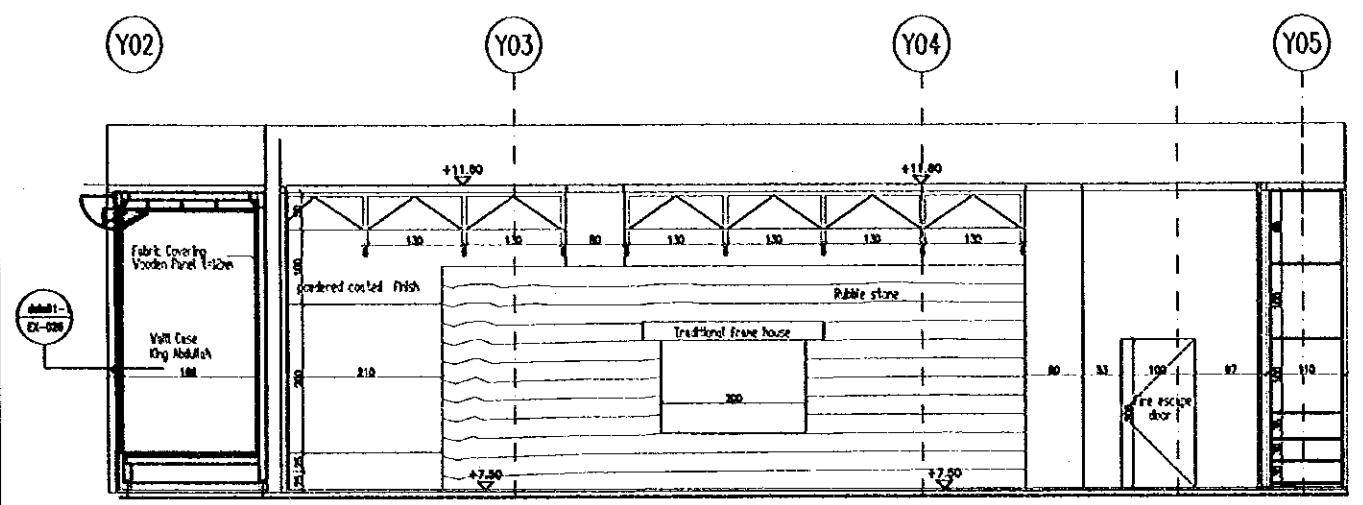
REMARKS
*For signage types and specifications refer to DWG. XI-039,
for details refer to details.
*For details of show and model cases refer to detail drawings subject to case specified type.
*For audio visual specifications, refer to DWG. XI-040,41



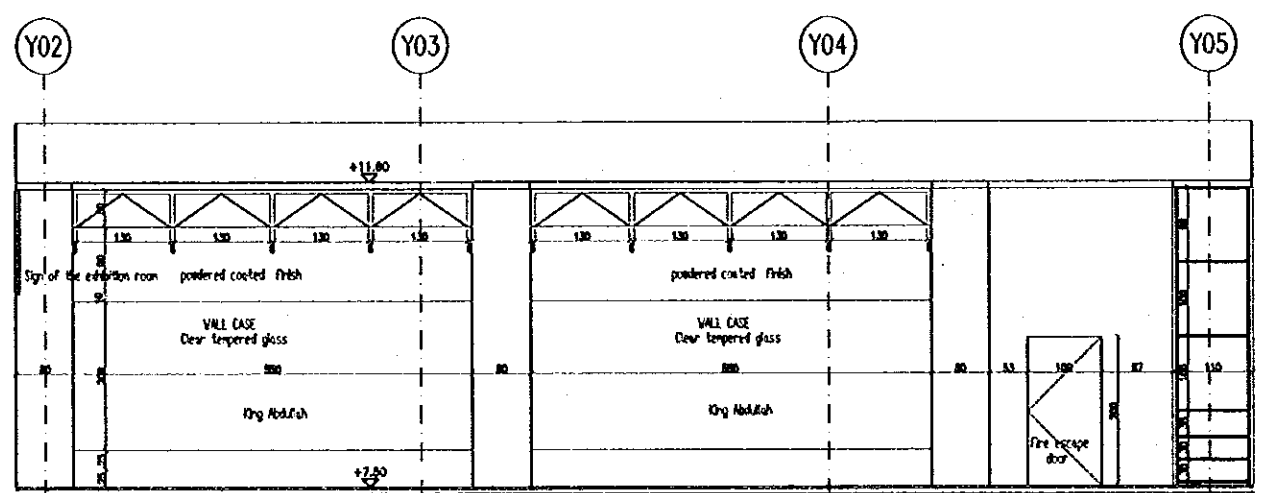
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Subcontracted Local Consultant:
Jafar Tukan and Partners Architects and Engineers

Drawing Title:
**EXHIBITION HALL—SECOND FLOOR
PARTIAL SECTION—ZONE 5**

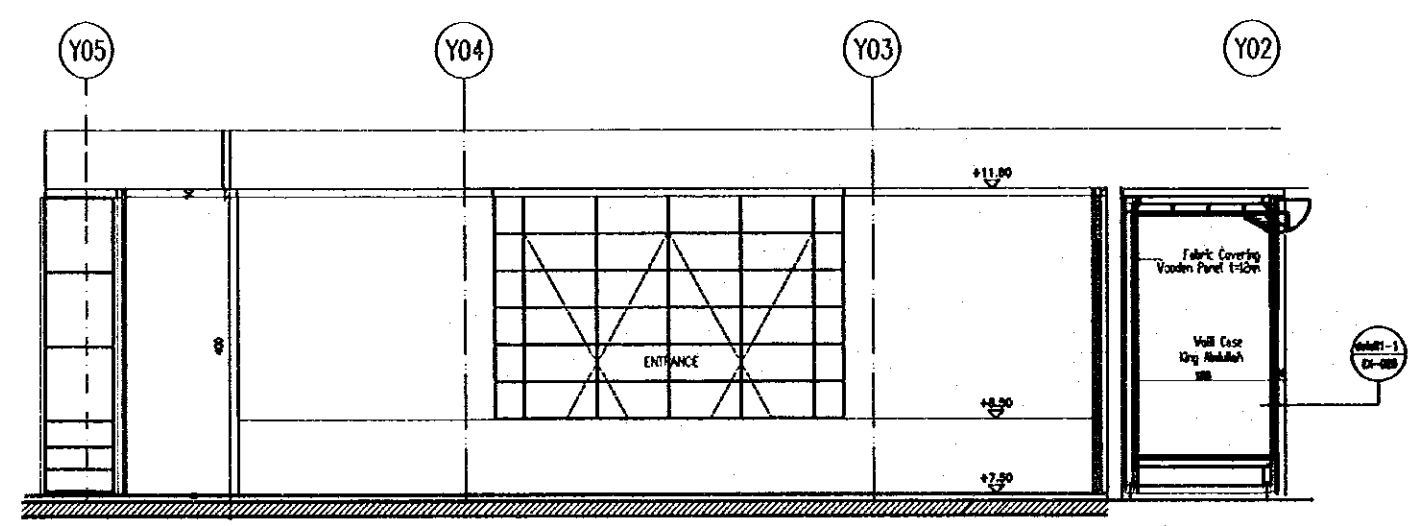
Scale: 1:50
Drawing No.: EX-024



SECTION B-B



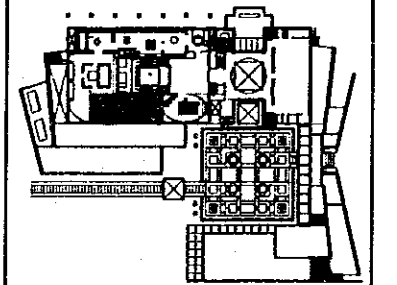
SECTION D-D



SECTION E-E

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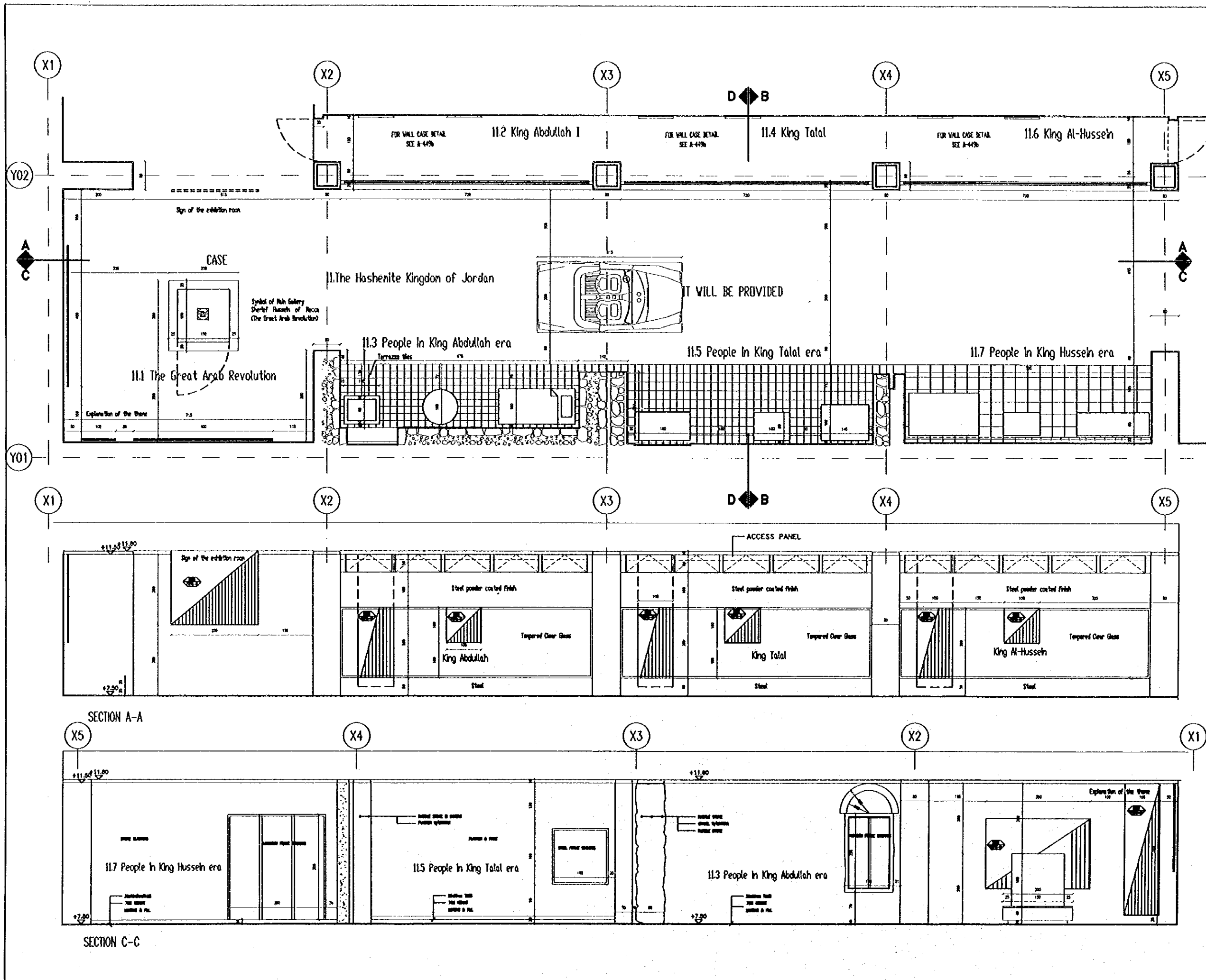
REMARKS
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for details refer to details.
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*For audio visual specifications, refer to DWG. EX-040,41



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Subcontracted Local Consultant:
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Drawing Title:
**EXHIBITION HALL—SECOND FLOOR
PARTIAL PLAN—ZONE 6**

Scale: 1:100 Drawing No.: EX-025



Sub-Project:

NATIONAL MUSEUM

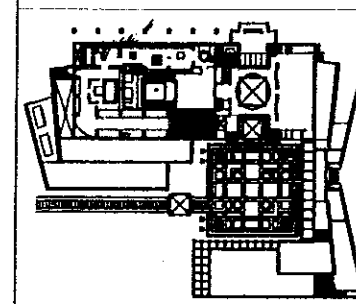
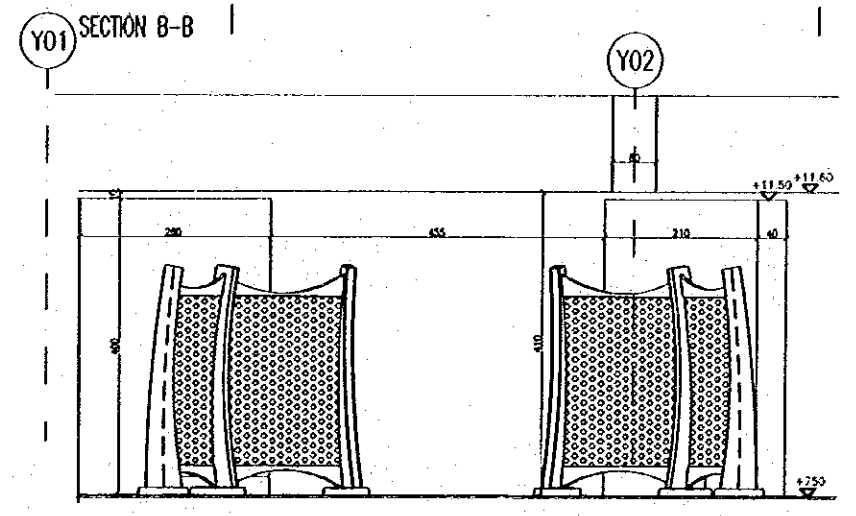
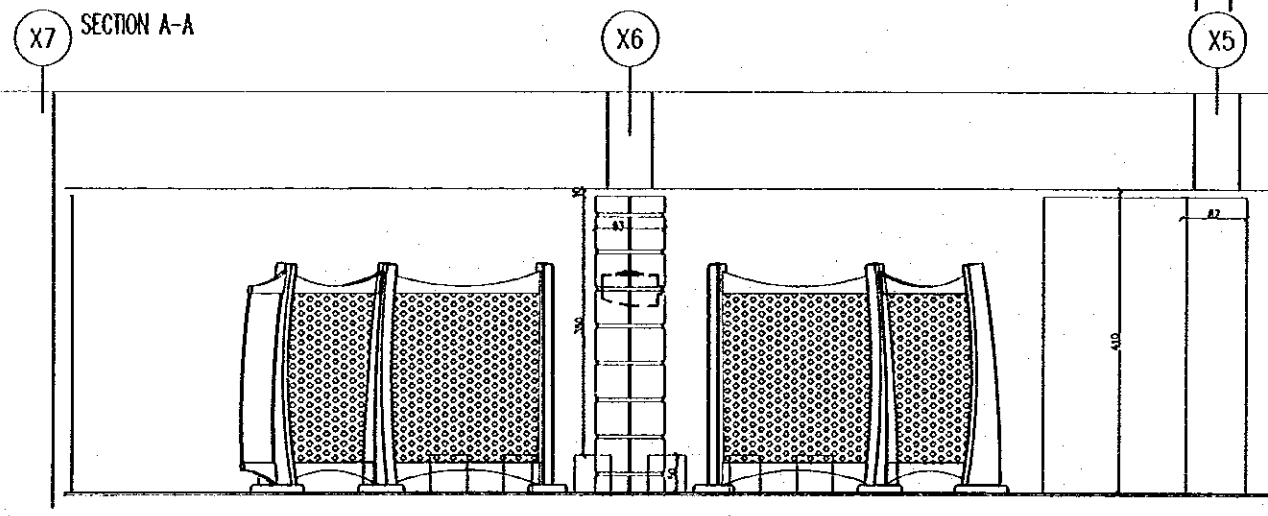
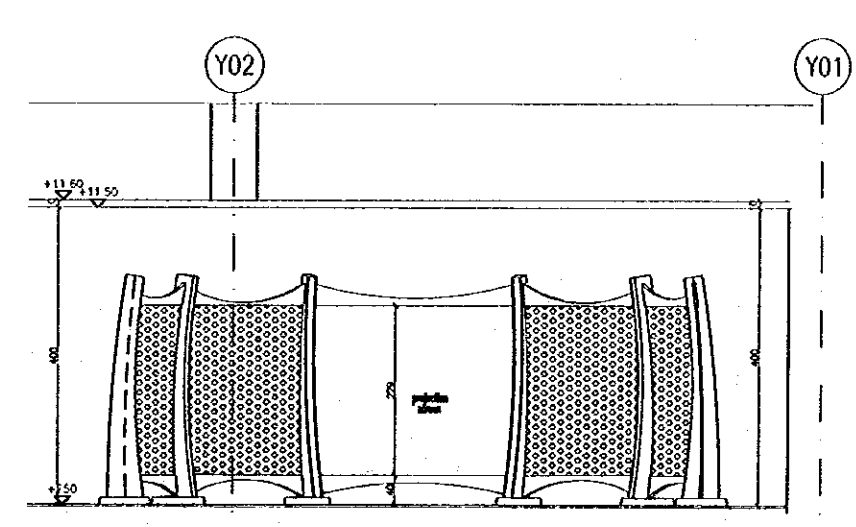
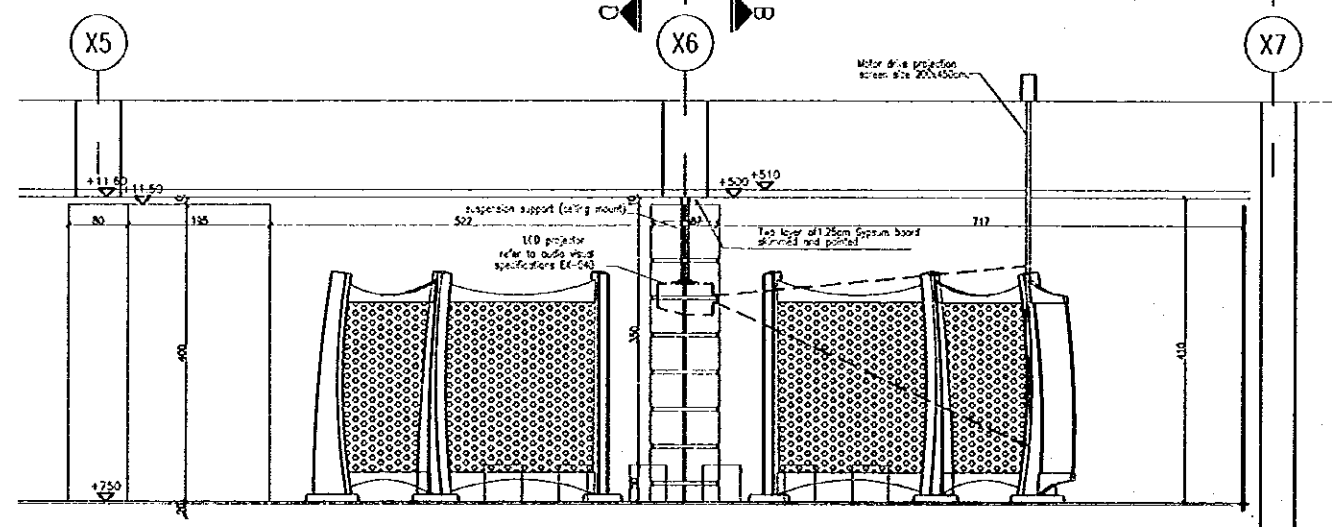
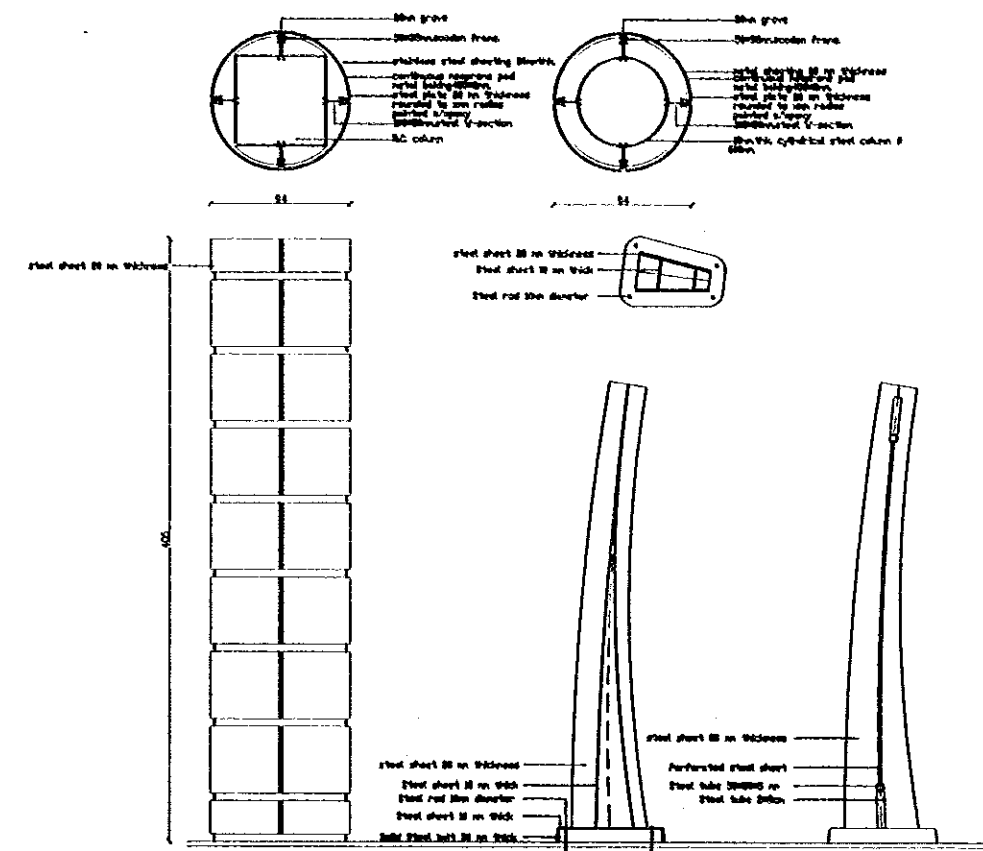
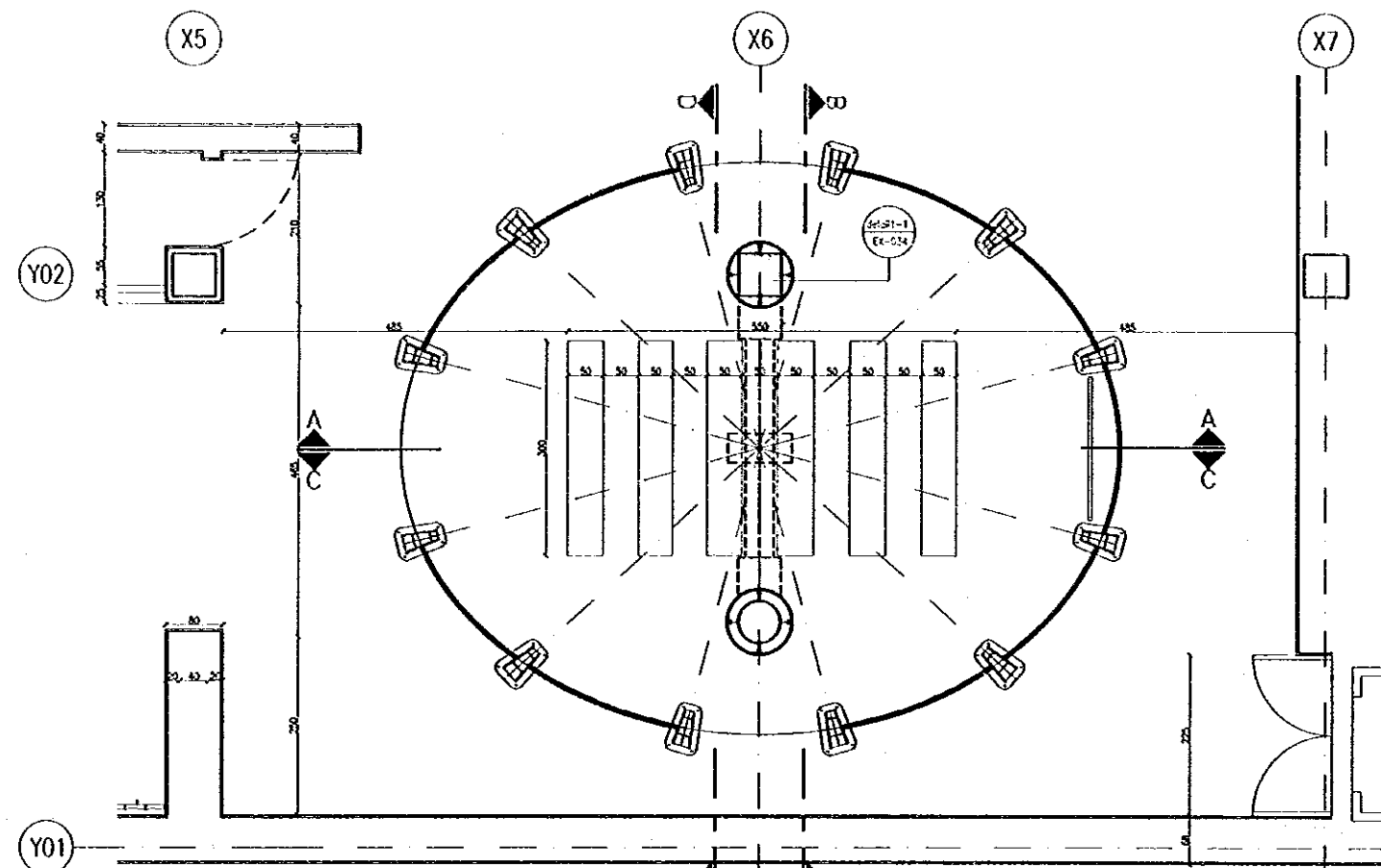
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JICA Study Team:

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Subcontracted Local Consultant:

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Drawing Title:

EXHIBITION HALL - SECOND FLOOR
PARTIAL PLAN - ZONE 7

Scale:

1:50

Drawing No.:

EX-027

SECTION C-C

SECTION D-D

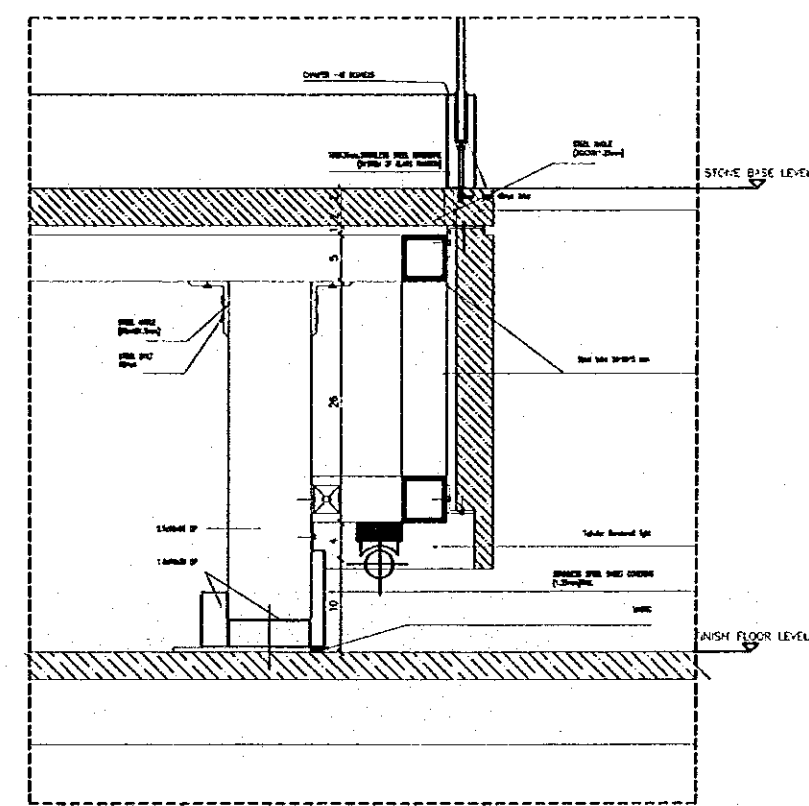
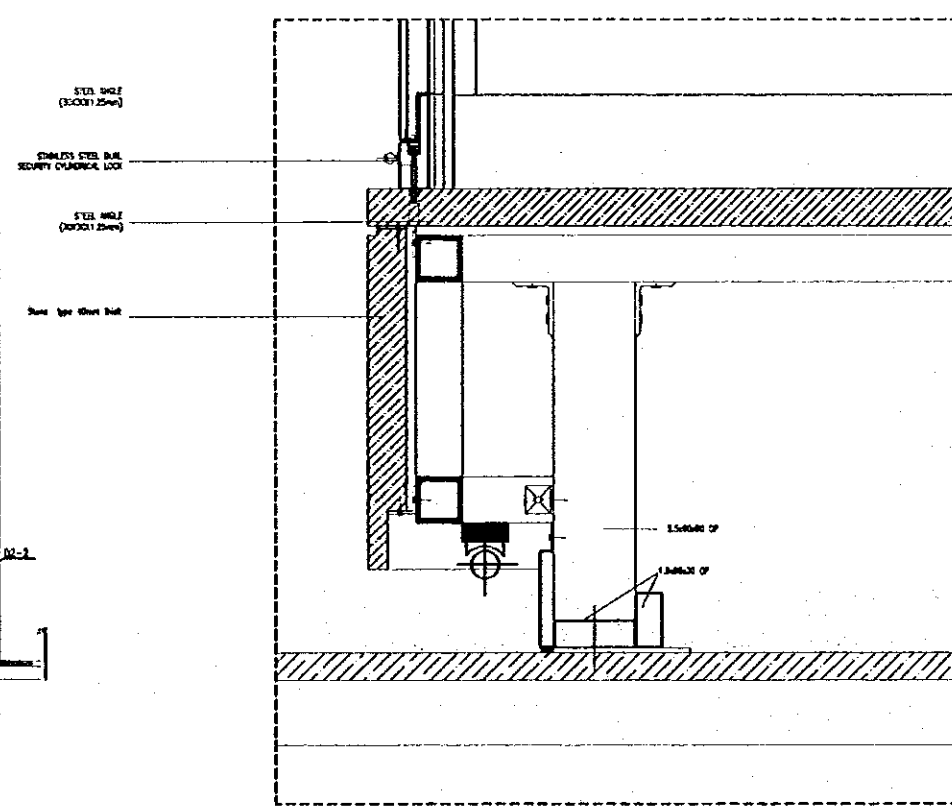
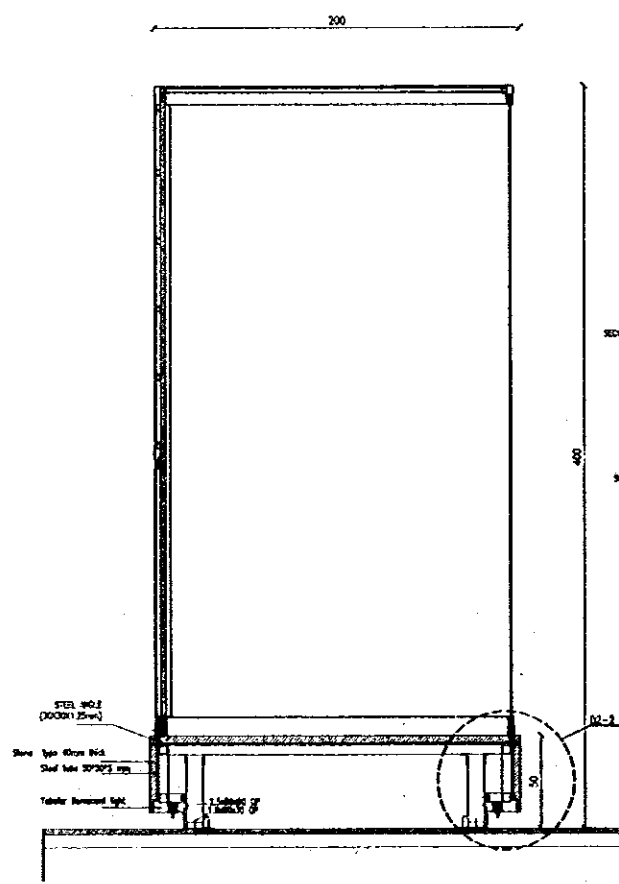
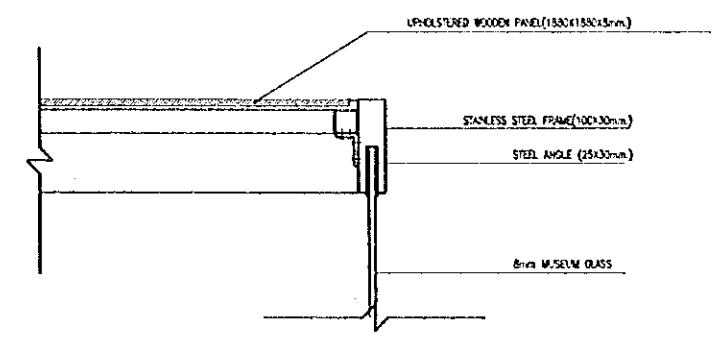
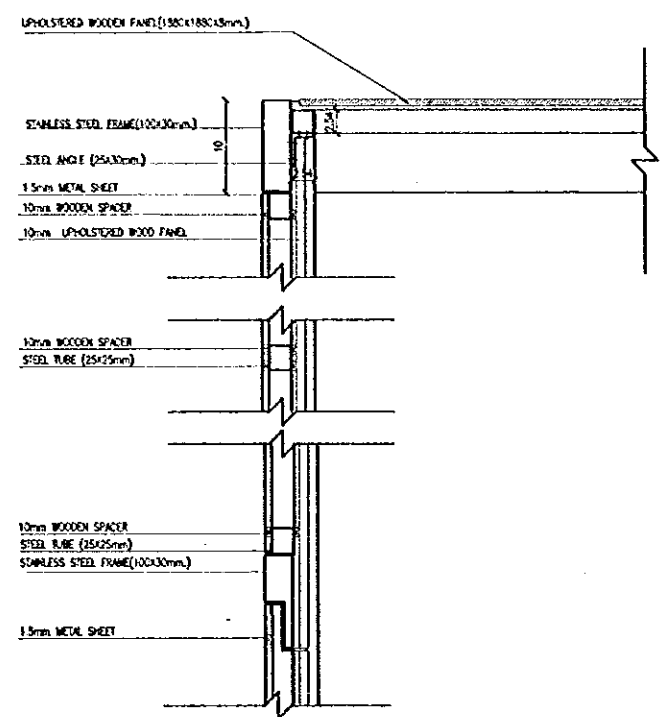
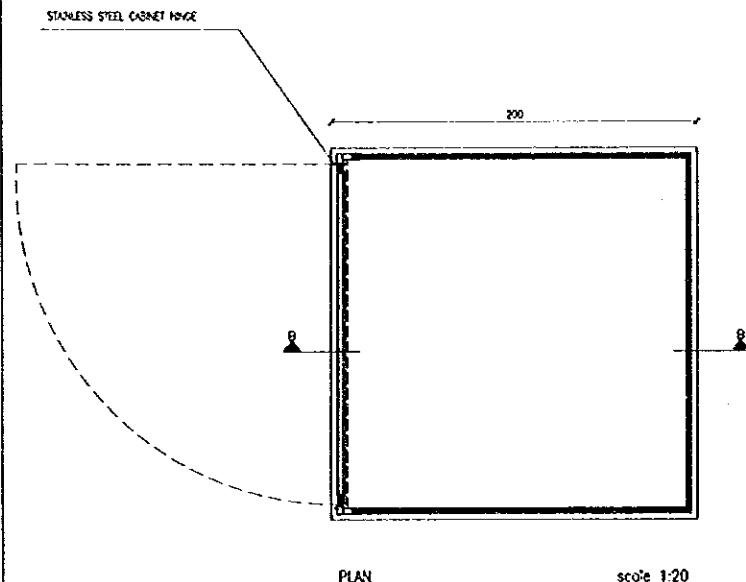
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- for details refer to details.
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- *For audio visual specifications, refer to DWG. EX-040,41



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JICA Study Team:

Joint Venture of Pacific Consultants International and Yamasita Sekkel Inc.

Subcontracted Local Consultant:

Jafar Tukan and Partners Architects and Engineers

Drawing Title:

EXHIBITION HALL
SHOW-CASE DETAILS

Scale:

AS SHOWN

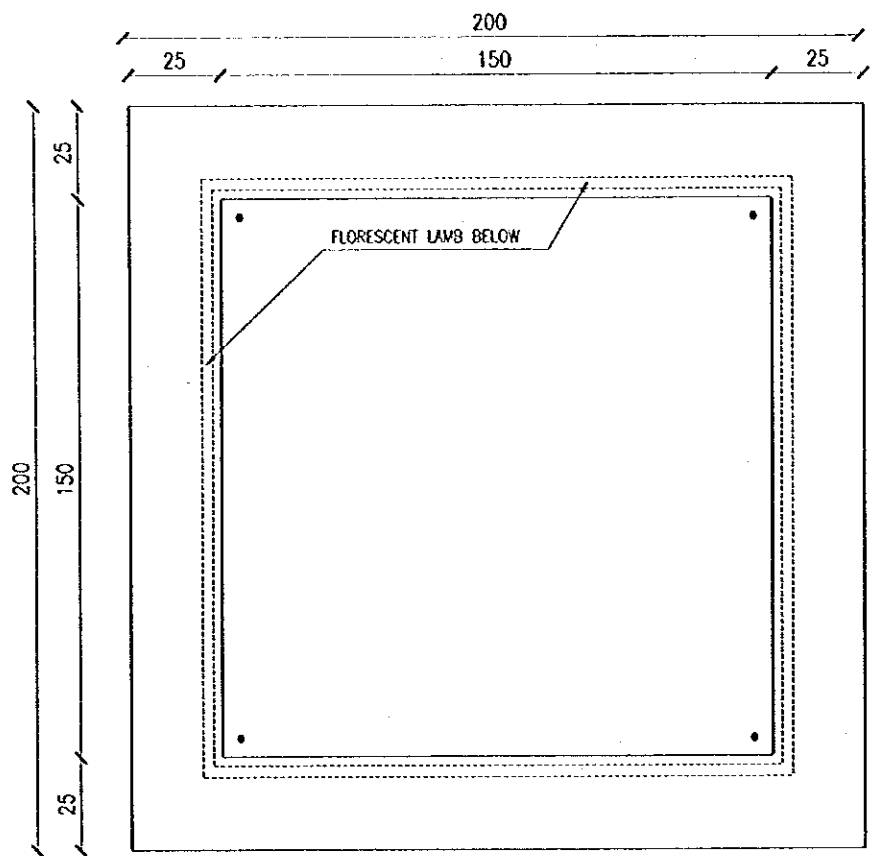
Drawing No.:

EX-029

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Cooperation Agency (JICA) and JICA Study Team.

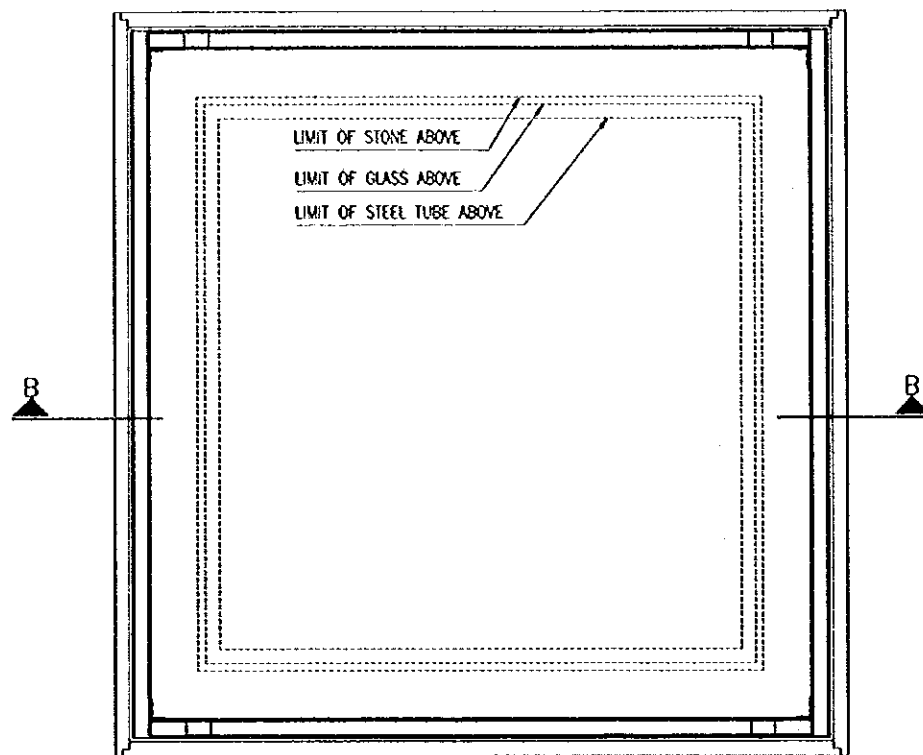
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*For signage types and specifications
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for details refer to details.
*For details of show and model cases
refer to detail drawings subject to
case specified type.
*For audio visual specifications, refer
to DWG. EX-040.41



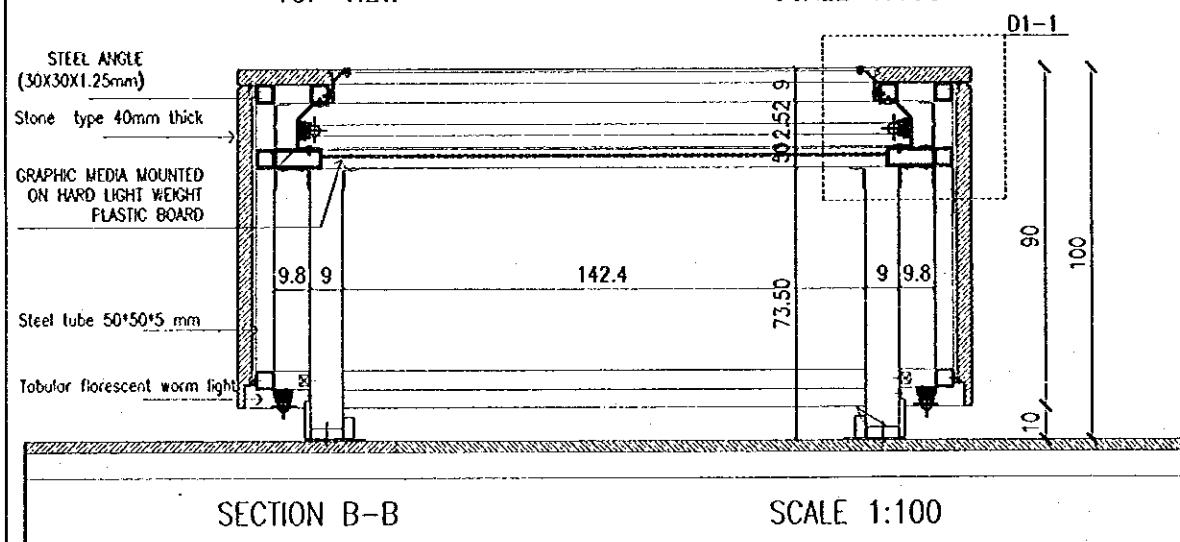
TOP VIEW

SCALE 1:100



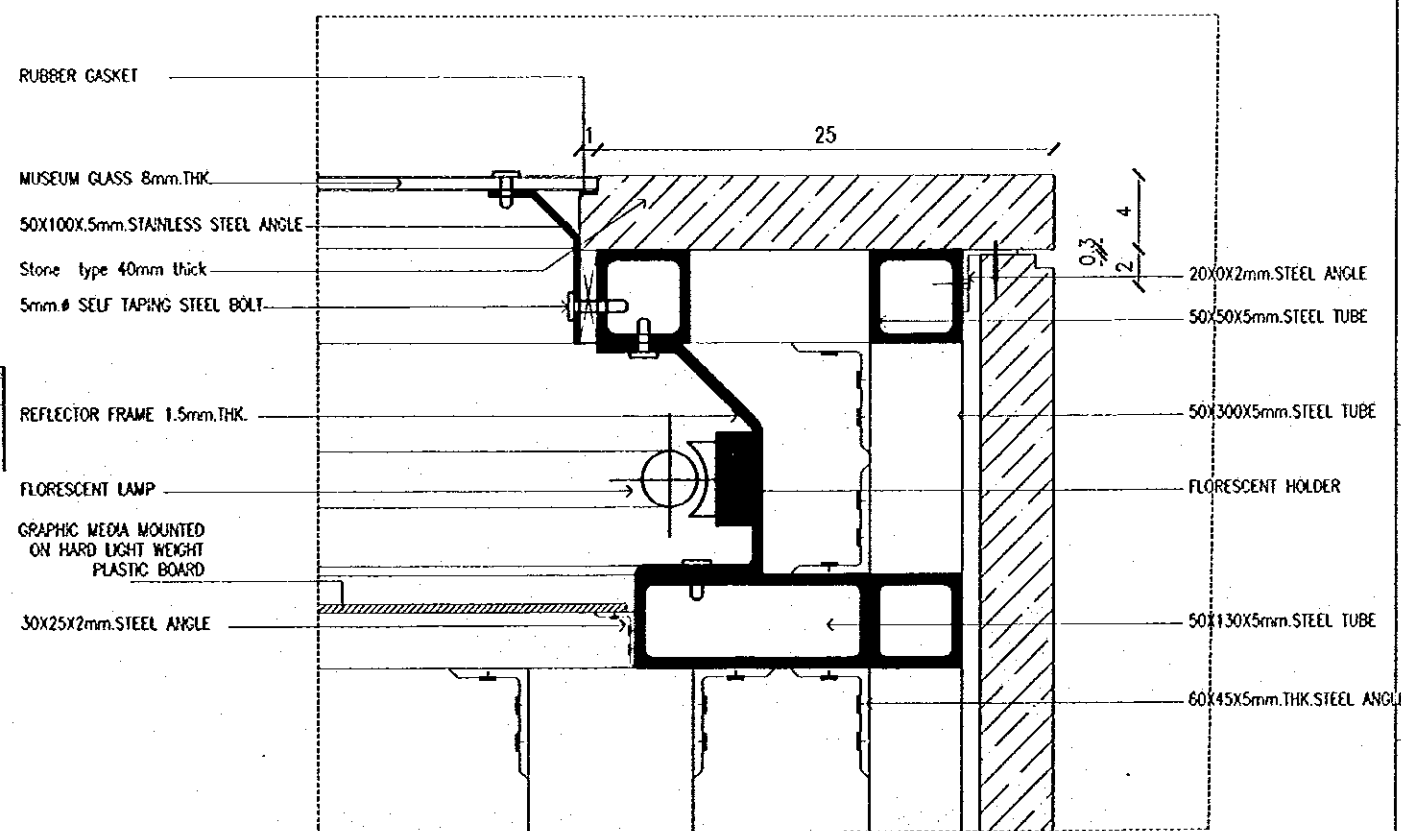
PLAN

SCALE 1:100



SECTION B-B

SCALE 1:100



DETAIL 1-1

SCALE 1:20

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JICA Study Team:
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Yamasa Sekkel Inc.
Subcontracted Local Consultant:
Jafar Tukan and Partners
Architects and Engineers

Drawing Title:
**EXHIBITION SHOW CASE
DETAIL**

Scale: 150 Drawing No.: EX-031

Sub-Project:

NATIONAL MUSEUM

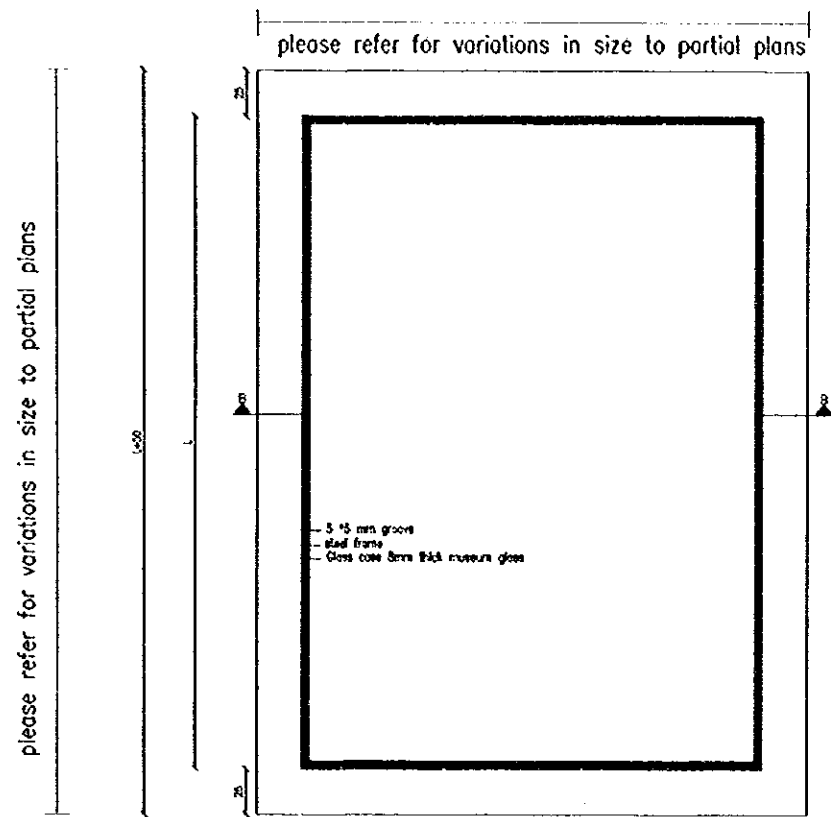
Note:

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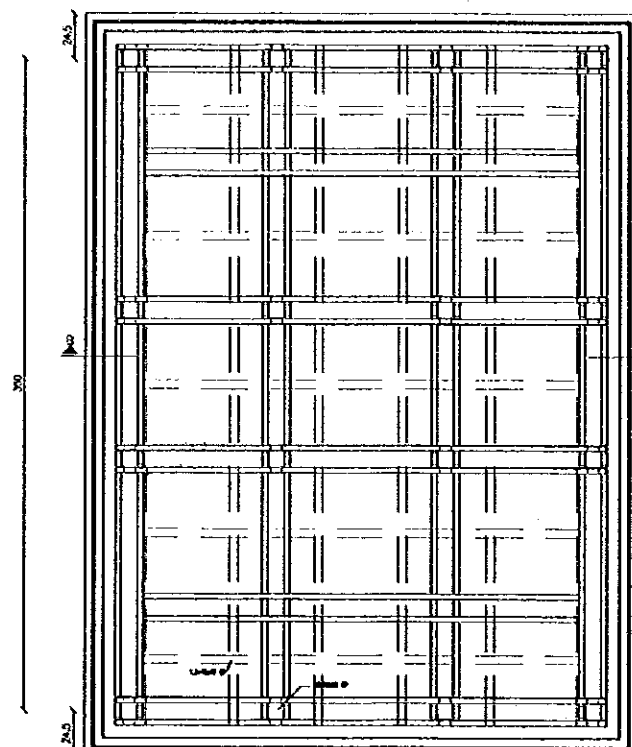
REMARKS

*For signage types and specifications refer to DWG.EX-039, for details refer to details.
*For details of show and model cases refer to detail drawings subject to specified type.

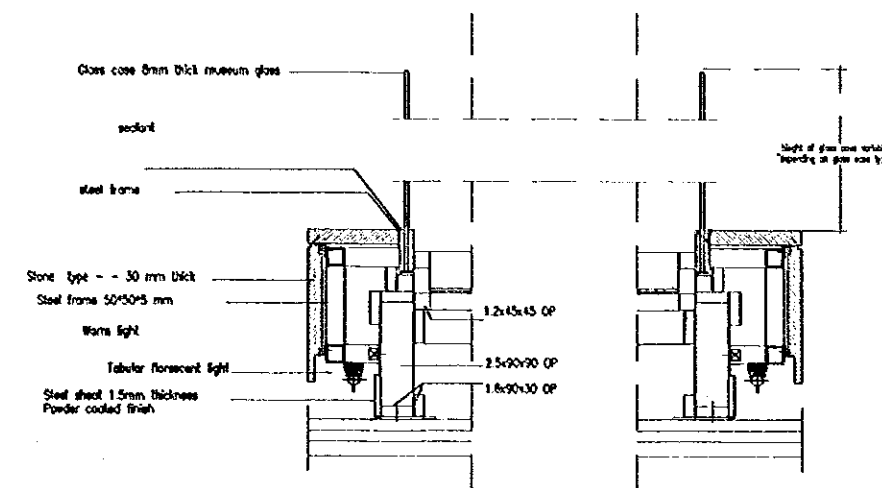


Top view

Scale:1-20

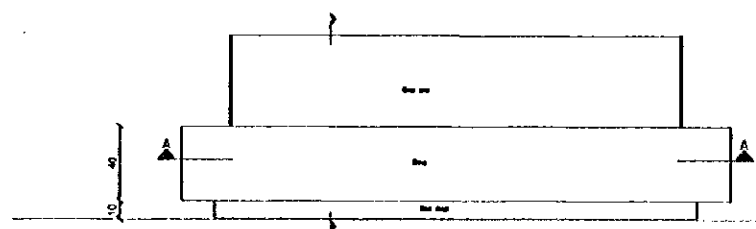


Section A-A "plan of model base reinforcement" Scale:1-20



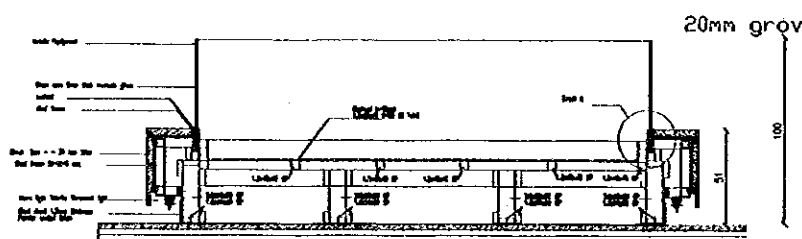
Typical Joint details

Scale 1:10



Front view

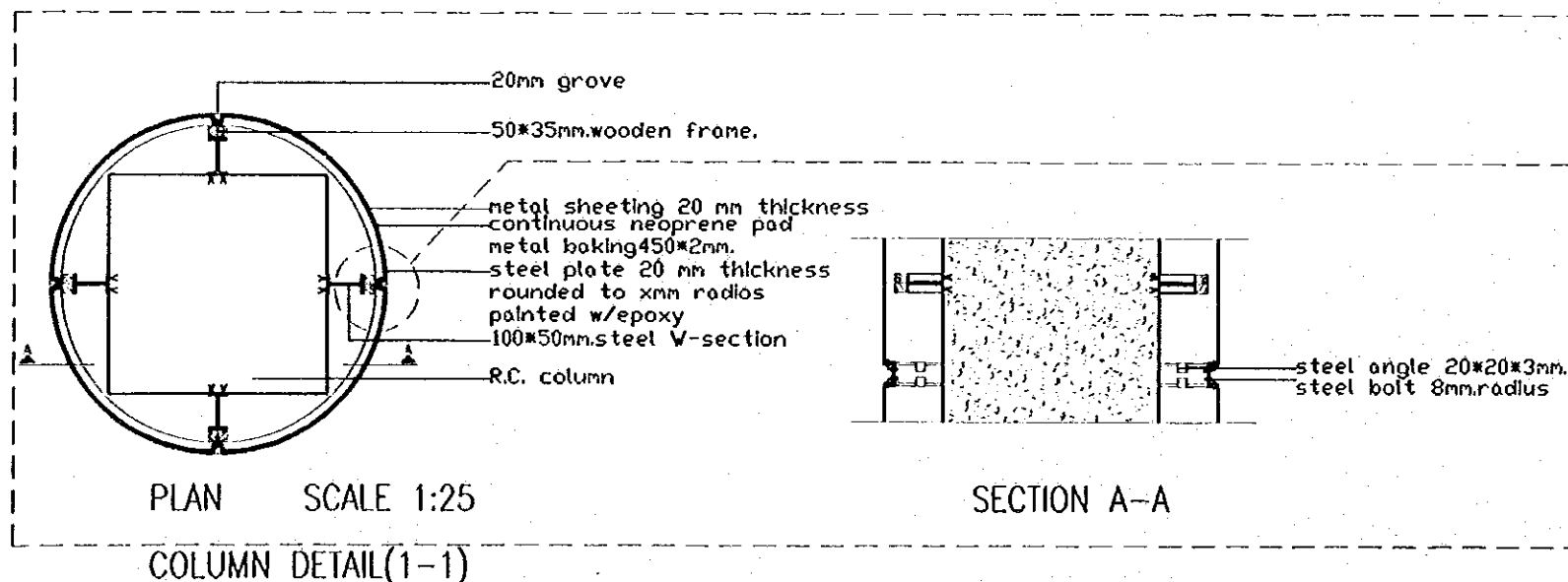
Scale:1-20



Section B-B

Scale:1-20

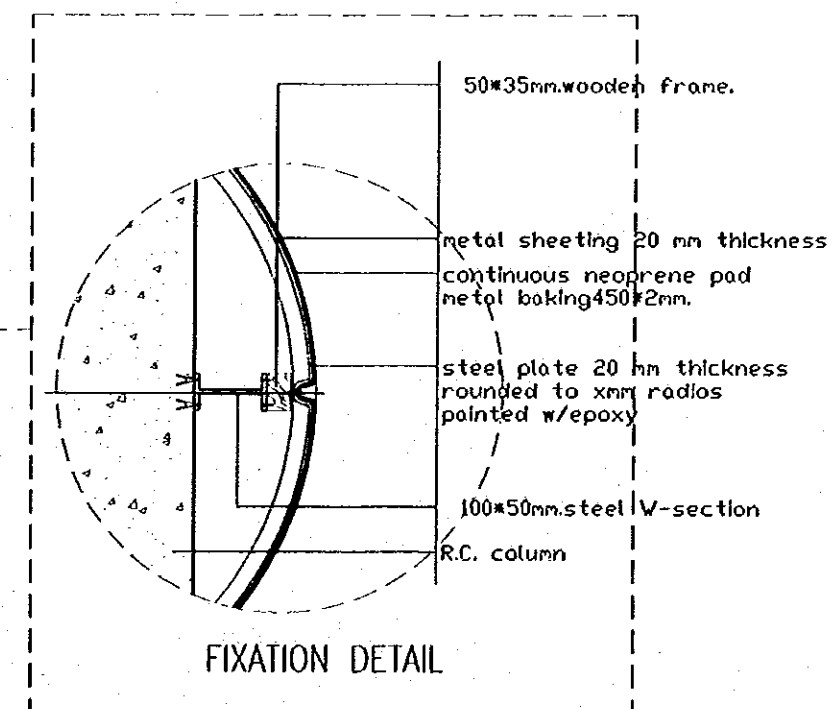
*Note: for sizes of models refer to models schedules
DWG.EX-032
L= Length of model
W= Width of model



PLAN SCALE 1:25

COLUMN DETAIL(1-1)

SECTION A-A



FIXATION DETAIL

Designed by:

Japan International Cooperation Agency (JICA)

JICA Study Team:

Joint Venture of Pacific Consultants International and Yamasita Sekkei Inc.

Subcontracted Local Consultant:

Jafar Tukan and Partners Architects and Engineers

Drawing Title:

EXHIBITION HALL
MODEL CASE DETAILS

Scale:

AS SHOWN

Drawing No.:

EX-034

Sub-Project:

NATIONAL MUSEUM

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JICA Study Team:

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Jafar Tukan and Partners
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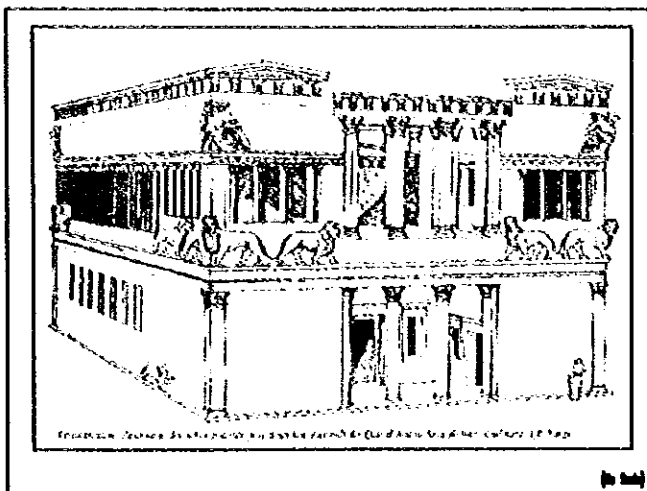
Drawing Title:

MODELS SPECIFICATIONS
EXHIBITION HALL

Scale:
1/100

Drawing No.:
EX-36

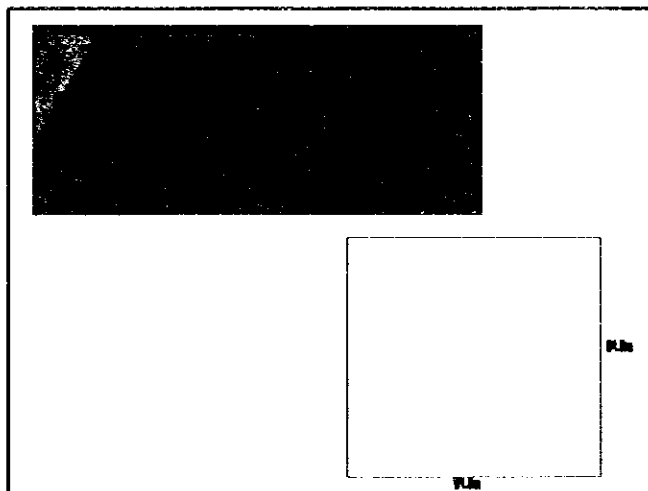
① 0-1.Hellenistic Period Palace Name of site: Iraq al-Amir



0.30m

Image	Type	Architectural model
	Site	W 1.5 * D 1.5 * H 0.3
	Scale	1:100
	Material	Plaster - Gypsum - Plaster - Plaster
	Model	Scale of Plan (1:100) Scale of Section (1:100) Scale of Detail (1:10)
	Remarks	None
	Notes	None

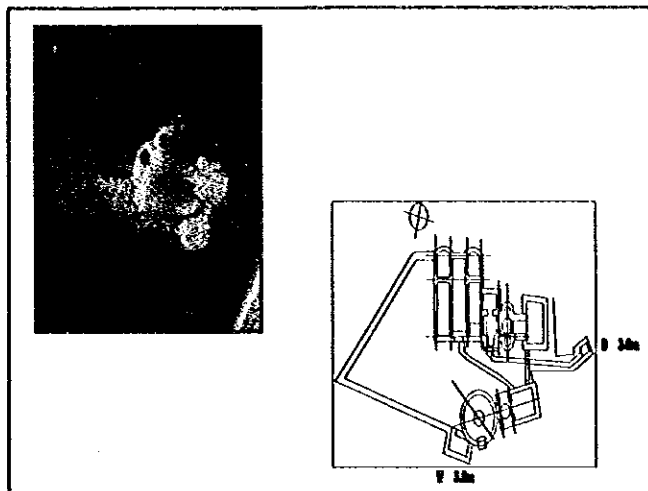
① 0-2.Roman Empire & Decapolis Roman Fort Name of Site: Lajun



0.30m

Image	Type	Architectural model
	Site	W 1.5 * D 1.5 * H 0.3
	Scale	1:100
	Material	Plaster
	Model	Scale of Plan (1:100) Scale of Section (1:100) Scale of Detail (1:10)
	Remarks	None
	Notes	None

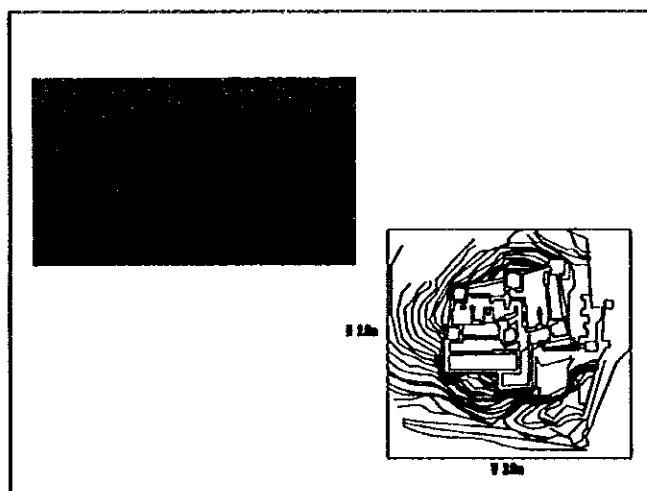
① 0-1.Early Islamic Qasr Amra General View Name of site:Qasr Amra



0.30m

Image	Type	Architectural model
	Site	W 1.5 * D 1.5 * H 0.3
	Scale	1:100
	Material	Plaster - Gypsum - Plaster - Plaster
	Model	Scale of Plan (1:100) Scale of Section (1:100) Scale of Detail (1:10)
	Remarks	None
	Notes	None

① 0-2.Middle Islamic Medieval Islamic Castle Name of Site:Jordan Castle



0.30m

Image	Type	Model of building
	Site	W 1.5 * D 1.5 * H 0.3
	Scale	1:100
	Material	Order for paper Gypsum Plaster - Plaster - Plaster
	Model	Scale of Plan (1:100) Scale of Section (1:100) Scale of Detail (1:10)
	Remarks	None
	Notes	None

① 0-3.Late Islamic Sugar Factory Name of Site :Tell es-Selher

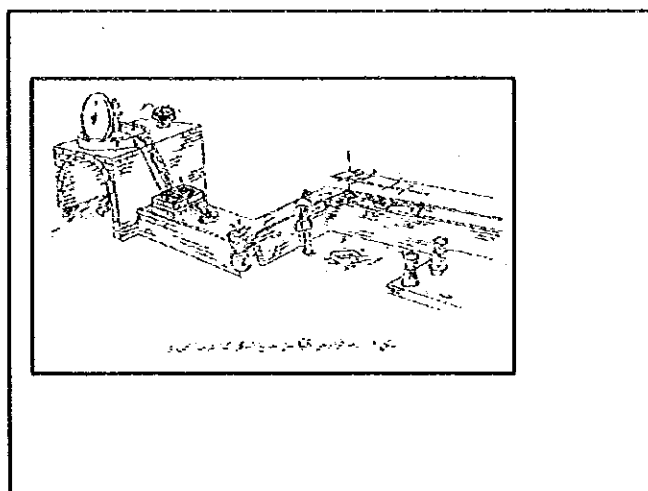


Image	Type	Architectural model
	Site	W 1.5 * D 1.5 * H 0.3
	Scale	1:100
	Material	Plaster - Gypsum - Plaster - Plaster
	Model	Scale of Plan (1:100) Scale of Section (1:100) Scale of Detail (1:10)
	Remarks	None
	Notes	None

① -

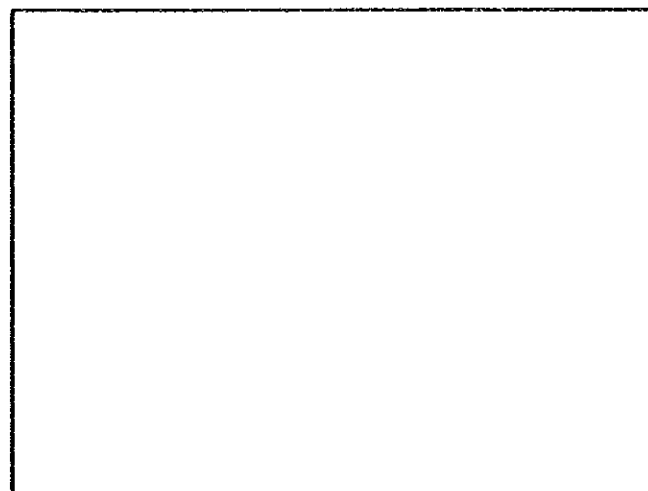
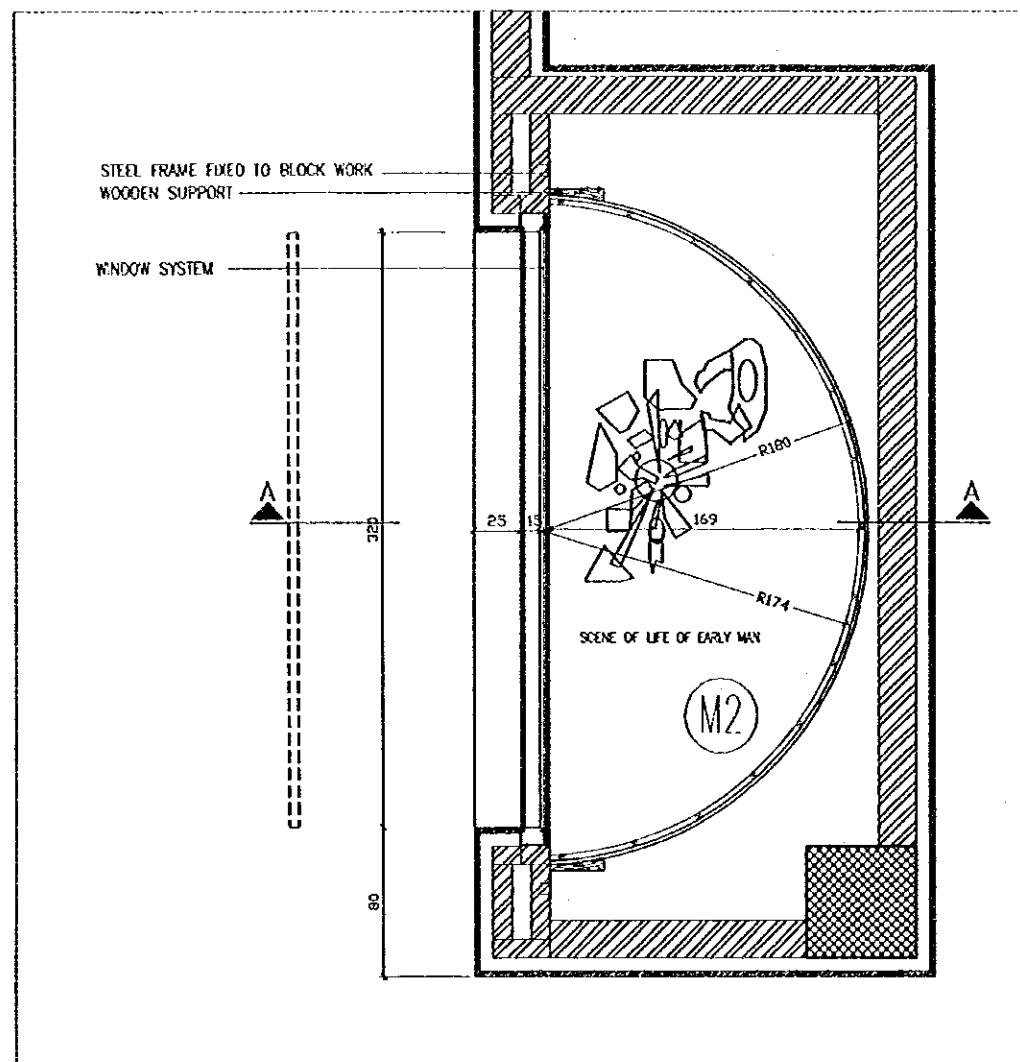
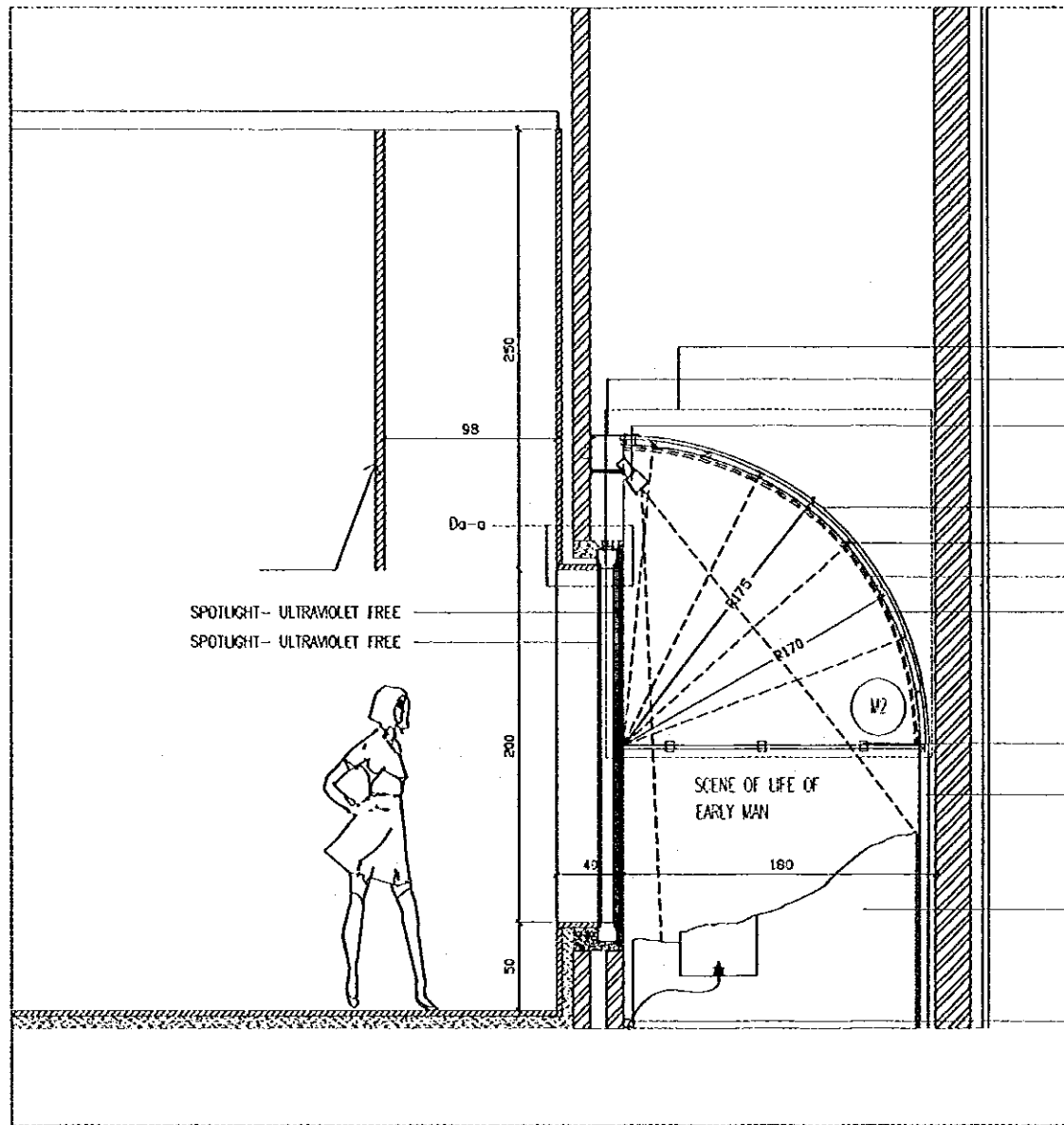


Image	Type	-
	Site	-
	Scale	-
	Material	-
	Model	-
	Remarks	-
	Notes	-

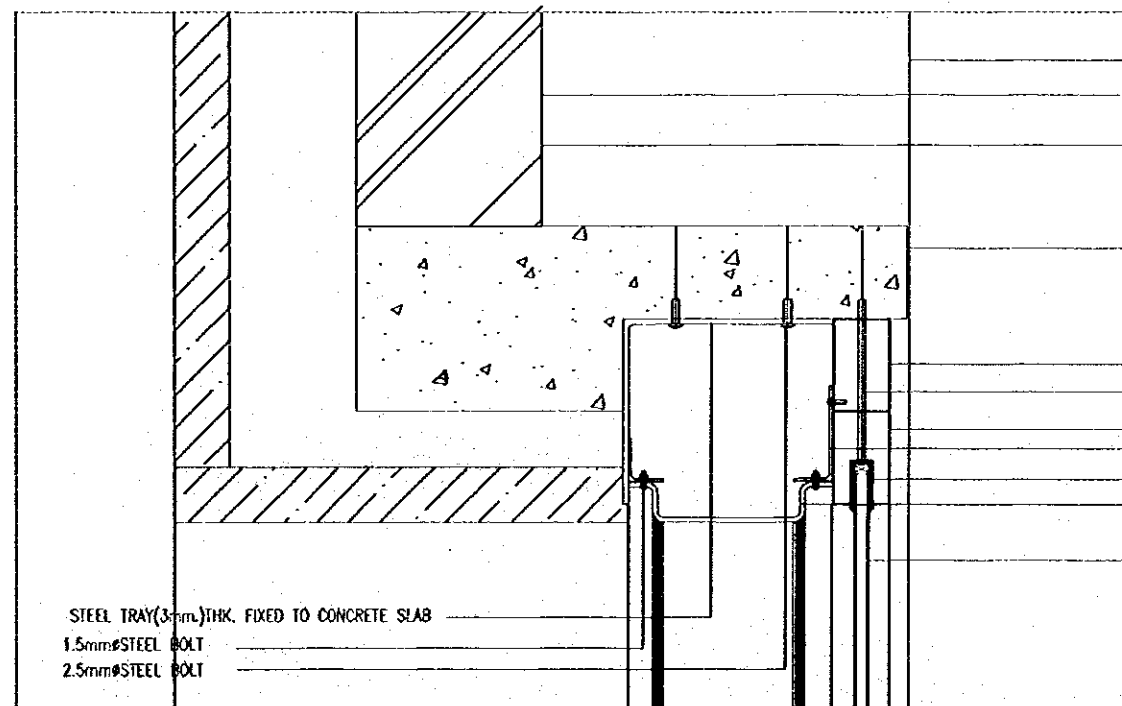
DETAIL 2-2



PLAN SCALE 1:50



SECTION A-A SCALE 1:50



DETAIL 0-0 SCALE 1:5 ACCESS PANEL SYSTEM

- 1/2 DOOR FIXED ON 1/2 CYLINDER
- STEEL FRAME FIXED TO BLOCK WORK
- SPOTLIGHT- ULTRAVIOLET FREE
- WOODEN FRAME
- WOODEN SPACER(30X38mm.)
- PLYWOOD PANELS
- LAMINATED POSTER OF LIFE SCENERY PRINTED ON PAPER MEDIA
- FIXATION BEHIND
- 50mm.THK. WOOD FRAME
- MODEL LOCATION
- POWER CONNECTION

Tourism Sector Development Project in the Hashemite Kingdom of Jordan

The Government of The Hashemite Kingdom of Jordan The Ministry of Tourism and Antiquities The Ministry of Planning

Sub Project: NATIONAL MUSEUM

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 JICA Study Team:
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Drawing No: EXHIBITION HALL MODEL CASE DETAIL

Scale: AS SHOWN Drawing No: EX-038

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*For details of show and model cases refer to detail drawings subject to specified type.

Exploration of the Theme		(TYPE C) Panels for Exhibition Subject		(TYPE A) Panel for Exhibition Subject		(TYPE B) Panels for Material	
No.	Sheet	No.	Sheet	No.	Sheet	No.	Sheet
A-1		E-1		C-1		B-1	
Contents: Text Drawing Photo		Contents: Text Drawing Mpl		Contents: Text Drawing Mpl		Contents: Text Photo Drawing	
Spec: Laser Color Printing(flex)		Spec: Laser Color Printing		Spec: Laser Color Printing		Spec: Laser Color Printing	
Mat: Glass		Mat: Wooden Panel 1=30mm		Mat: Wooden Panel 1=30mm		Mat: Wooden Panel 1=20mm	
(TYPE E) Panels for Material		(TYPE F) Panels for Material		Sign of the Exhibition room		(TYPE D) Panel for Exhibition Subject	
E-1		F-1					
Contents: Text Drawing		Contents: Text Photo		Contents: Text Photo Drawing Mpl		Contents: Text Drawing Mpl	
Spec: Printing(silk process) 20Colors		Spec: Laser Color Printing		Spec: Laser Color Printing		Spec: Laser Color Printing	
Mat: Wooden Panel 1=20mm		Mat: Wooden Panel 1=20mm		Mat: Wooden Panel 1=20mm		Mat: Wooden Panel 1=30mm	

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JICA Study Team:
Joint Venture of Pacific Consultants International and Yamashita Sekkei Inc.
Subcontracted Local Consultant:
Jafar Tukan and Partners
Architects and Engineers

Drawing Title:
EXHIBITION SIGN SYSTEM

Scale:
AS SHOWN

Drawing No.:
EX-039

Sub-Project:
NATIONAL MUSEUM

Note:
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*For details of show and model cases refer to detail drawings subject to specified type.

Orientation
System plan

Contents

- Introduction: General introduction of Jordan
- Introduction of nature of Jordan's natural and archaeological sites

- Duration: 3 minutes
- Narration: with
- Music: with
- Location: without

- Material: available and it needs editing only (reading of existing material of Jordanian TV)

List of equipment

The grade of all equipment shall be as per specified above in the list.

W/IDIAL	W/IDIAL	W/IDIAL	W/IDIAL	W/IDIAL	W/IDIAL
1	1	1	1	1	1

Nabatean Kingdom & Roman occupation
System plan

Contents

- Introduction of the history of Nabatean Kingdom & Roman occupation
- Introduction of the history of Nabatean Kingdom & Roman occupation
- Introduction of Nabatean Kingdom & Roman occupation
- Introduction of Nabatean Kingdom & Roman occupation
- Introduction of Nabatean Kingdom & Roman occupation

- Duration: 3 minutes
- Narration: with
- Music: with
- Location: without

- Material: available and it needs editing only (reading of existing material of Jordanian TV)

List of equipment

The grade of all equipment shall be as per specified above in the list.

W/IDIAL	W/IDIAL	W/IDIAL	W/IDIAL	W/IDIAL	W/IDIAL
2	2	2	2	2	2

The influence of Islamic culture on Europe through crusader
System plan

Contents

- Introduction of the history of crusader
- Introduction of European culture effected by Islamic tradition

- Duration: 3 minutes
- Narration: with
- Music: with
- Location: without

- Material: available and it needs editing only (reading of existing material of Jordanian TV)

List of equipment

- Computer
- Plasma Display Panel
- Control software
- PJ Projector
- Panel Air
- Light Fixture
- SW Switch
- LCU by control unit

The grade of all equipment shall be as per specified above in the list.

W/IDIAL	W/IDIAL	W/IDIAL	W/IDIAL	W/IDIAL	W/IDIAL
3	3	3	3	3	3

News in Sheriff Hussein period
System plan

Contents

- Introduction of the news in Sheriff Hussein period
- Introduction of the news in Sheriff Hussein period
- Introduction of the news in Sheriff Hussein period
- Introduction of the news in Sheriff Hussein period

- Duration: 3 minutes
- Narration: with
- Music: with
- Location: without

- Material: available and it needs editing only (reading of existing material of Jordanian TV)

List of equipment

- PDP Panel
- PJ Projector

The grade of all equipment shall be as per specified above in the list.

W/IDIAL	W/IDIAL	W/IDIAL	W/IDIAL	W/IDIAL	W/IDIAL
4	4	4	4	4	4

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JICA Study Team:
Joint Venture of Pacific Consultants International and Yamosita Sekkel Inc.
Subcontracted Local Consultant:
Jafar Tukan and Partners Architects and Engineers

Drawing title:
**EXHIBITION HALL
AUDIO VISUAL SPECIFICATIONS**

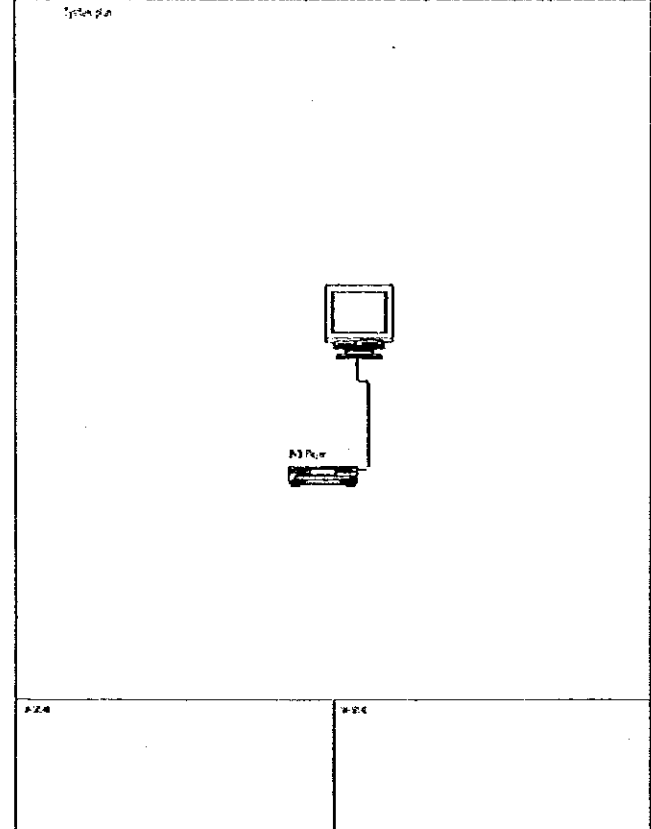
1/23

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*For details of show and model cases refer to detail drawings subject to specified type.

④ Halls in King Abdullah era



Contents
Collection of documents in King Abdullah era

Basics: 3 minutes/episode

Narration with original sound of news film

Music with original sound of news film

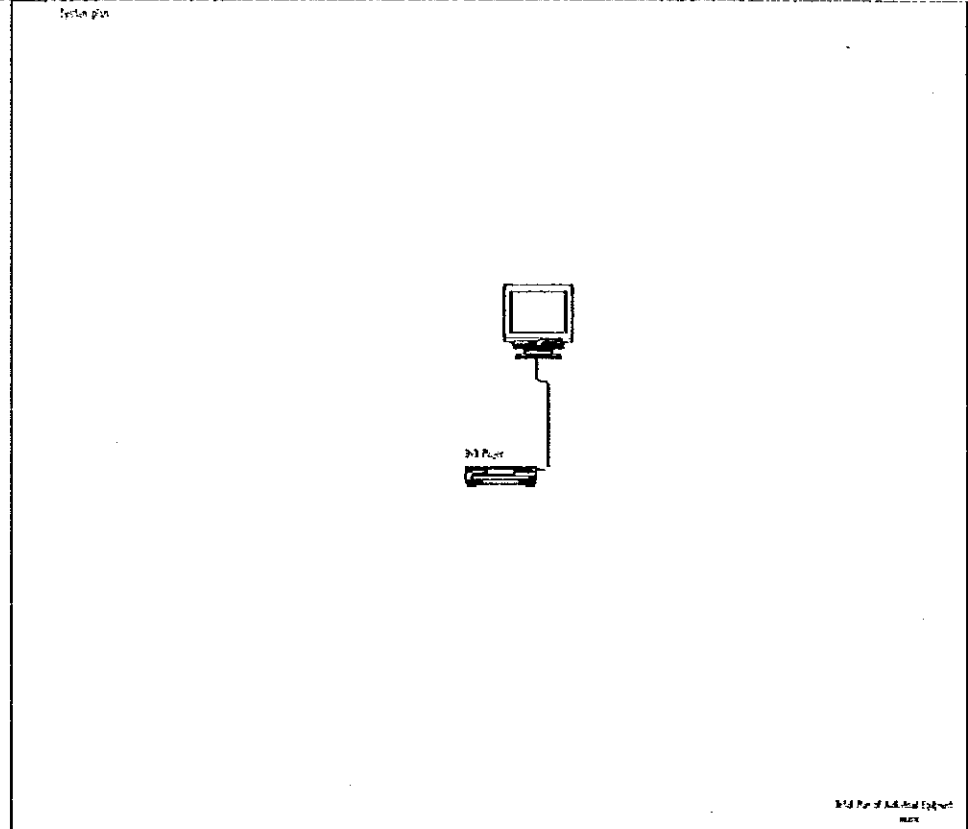
Location: about

Material: available and it needs editing only (existing material of Jordan TV)

List of equipment

The goal of all equipments shall be met the requirement shown in the list.

④ Halls in King Hussein era



Contents
Collection of documents in King Hussein era

Basics: 3 minutes/episode

Narration with original sound of news film

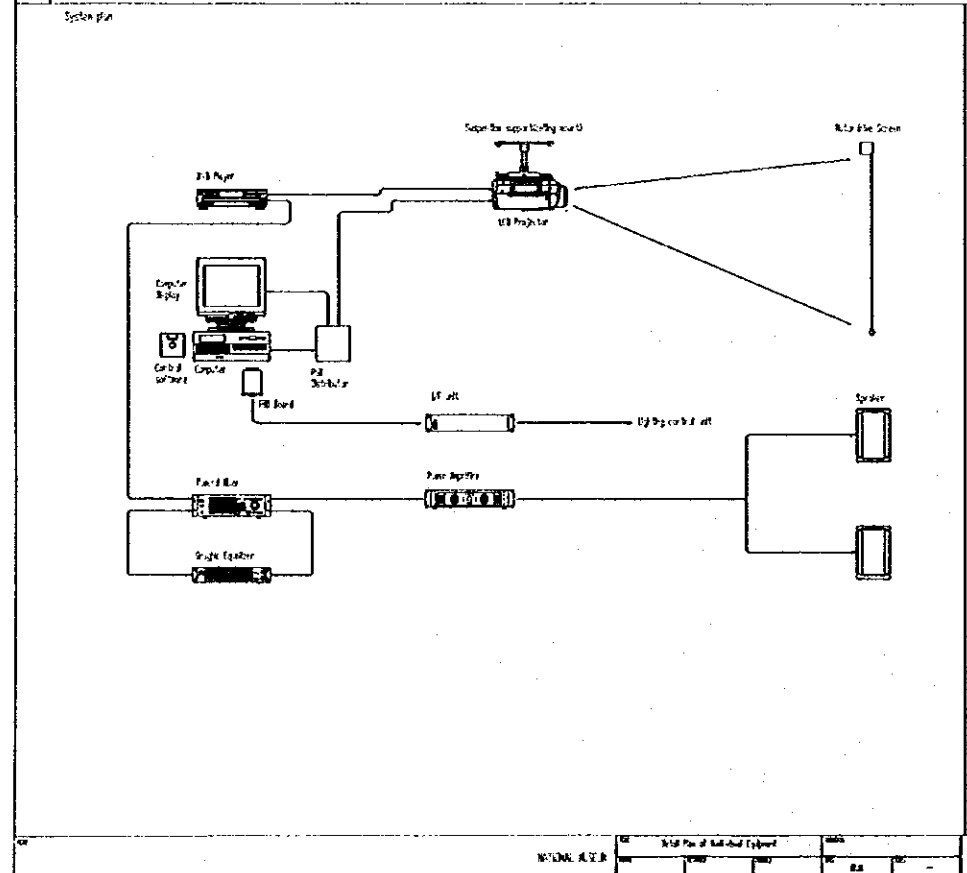
Music with original sound of news film

Location: about

List of equipment

The goal of all equipments shall be met the requirement shown in the list.

④ Jordan toward the future



Contents
This program will show the progress and dream of Jordan toward the future

The Jordanian dream toward the future

Visualization of Jordanian children and youth

Visualization of Jordanian progress

Visualization of potentiality of Jordan

Basics: 10 minutes

Narration with

Music with

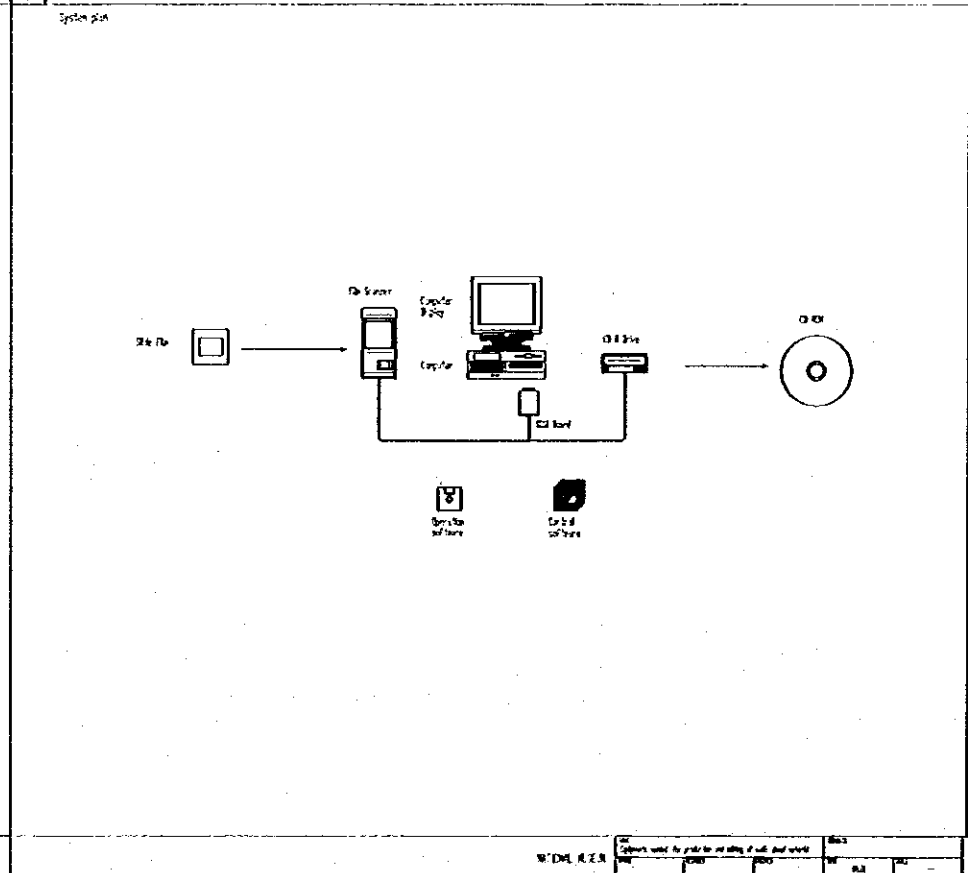
Location: about

Material: available and it needs editing only (existing material of Jordan TV)

List of equipment

The goal of all equipments shall be met the requirement shown in the list.

④



Contents

Computer specifications to be supplied
CPU: Pentium 4 1.7GHz
Main Memory: 2GB
Hard Disk: 40GB
Power Supply: 400W

Software
Operating System
Control Software
Material: Disk File

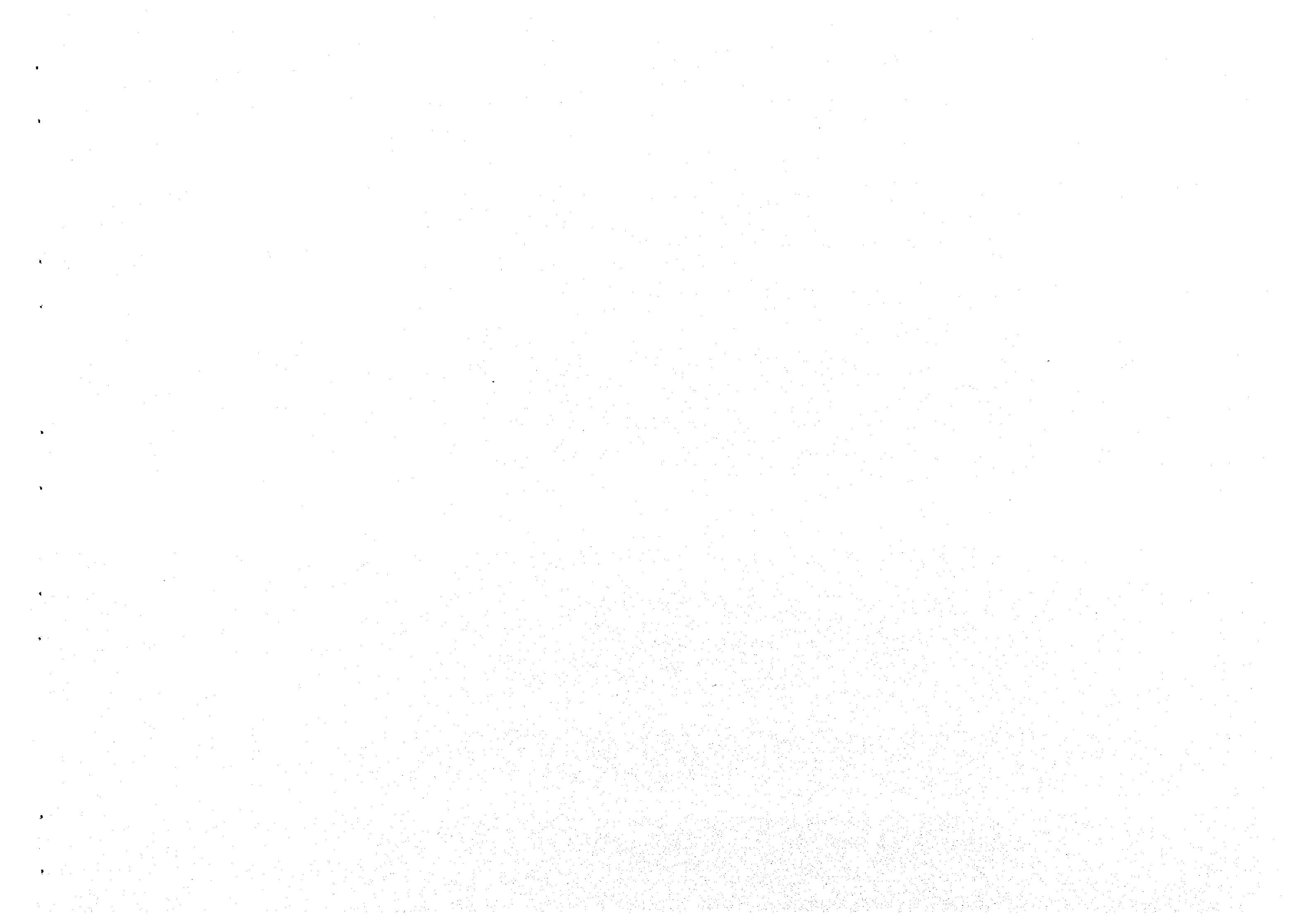
The goal of all equipments shall be met the requirement shown in the list.

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JICA Study Team:
Joint Venture of
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Yamashita Sekkel Inc.
Subcontracted Local Consultant:
Jafar Tukon and Partners
Architects and Engineers

Drawing Title:
**EXHIBITION HALL
AUDIO VISUAL SPECIFICATIONS**

Scale:
Drawing No.: **EX-011**

001



**THE TOURIST SECTOR DEVELOPMENT PROJECT
IN
THE HASHIMITE KINGDOM OF JORDAN
SUB - PROJECT
NATIONAL MUSEUM
STRUCTURAL WORK**

Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

The Government of
The Hashemite Kingdom of Jordan
The Ministry of Tourism and Antiquities
The Ministry of Planning

Sub Project:

NATIONAL MUSEUM

Note:

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DRAWING NO.	DRAWING TITLE	SCALE
-	COVER	NS
S-001	DRAWING TITLE	NS
S-002	GENERAL NOTES-1	NS
S-003	GENERAL NOTES-2	NS
S-100	SUB-FOUNDATION PLAN	1/200
S-101	FOUNDATION PLAN	1/200
S-102	COLUMNS AND BEARING WALLS FRAMING PLAN	1/200
S-103	GROUND FLOOR SLAB FRAMING PLAN SHOWING REINFORCEMENT IN X-DIRECTION	1/200
S-104	GROUND FLOOR SLAB FRAMING PLAN SHOWING REINFORCEMENT IN Y-DIRECTION	1/200
S-105	FIRST FLOOR SLAB FRAMING PLAN SHOWING REINFORCEMENT IN X-DIRECTION	1/200
S-106	FIRST FLOOR SLAB FRAMING PLAN SHOWING REINFORCEMENT IN Y-DIRECTION	1/200
S-107	SECOND FLOOR SLAB FRAMING PLAN SHOWING REINFORCEMENT IN X-DIRECTION	1/200
S-108	SECOND FLOOR SLAB FRAMING PLAN SHOWING REINFORCEMENT IN Y-DIRECTION	1/200
S-109	ROOF AND TOP OF ROOF SLABS FRAMING PLAN	1/200
S-201	FOOTING DETAILS F1-F29	1/50/20
S-202	FOOTING DETAILS T1-T11, FA1-FA4 AND TA1-TA3	1/20
S-203	FOUNDATION DETAILS A-A, B-B, C-C AND D-D	1/200
S-204	COLUMN DETAILS C1-C8	1/100/20
S-205	COLUMN DETAILS C9-C17 AND C19	1/100/20
S-301	JOIST DETAILS K1-K6 AND R1-R7	1/50/20
S-302	JOIST DETAILS M1-M5	1/50/20
S-303	BEAM DETAILS B1-B11 AND H4	1/50/20
S-304	BEAM DETAILS B6-B21	1/50/20
S-305	BEAM DETAILS B22-B43	1/50/20
S-306	BEAM DETAILS B32-B52 AND H1-H2	1/50/20
S-307	BEAM DETAILS H3 & H5-H14	1/50/20
S-308	BEAM DETAILS H15-H21 AND N1-N6	1/50/20
S-309	BEAM DETAILS N7-N24	1/50/20
S-310	BEAM DETAILS W1-W10	1/50/20
S-311	BRIDGE MERENDEEL DETAILS AND C18	1/50/20
S-312	SPACE FRAME DETAILS-1	NS
S-313	SPACE FRAME DETAILS-2	NS
S-401	GENERAL DETAILS X1-X14	1/20
S-402	GENERAL DETAILS X15-X30	1/20
S-403	GENERAL DETAILS X31-X48	1/20
S-404	GENERAL DETAILS X49-X68	1/20
S-405	GENERAL DETAILS X69-X87	1/20
S-406	GENERAL DETAILS X88-X104	1/20
S-407	GENERAL DETAILS X105-X116	1/20
S-408	STAIR DETAILS ST1-ST3	1/20
S-409	STAIR DETAILS ST4-ST6	1/50
S-501	SUB-FOUNDATION PLAN-1	1/100
S-502	SUB-FOUNDATION PLAN-2	1/100
S-503	SUB-FOUNDATION PLAN-3	1/100
S-504	SUB-FOUNDATION PLAN-4	1/100

DRAWING NO.	DRAWING TITLE	SCALE
S-505	FOUNDATION PLAN-1	1/100
S-506	FOUNDATION PLAN-2	1/100
S-507	FOUNDATION PLAN-3	1/100
S-508	FOUNDATION PLAN-4	1/100
S-509	COLUMNS AND BEARING WALLS FRAMING PLAN-1	1/100
S-510	COLUMNS AND BEARING WALLS FRAMING PLAN-2	1/100
S-511	COLUMNS AND BEARING WALLS FRAMING PLAN-3	1/100
S-512	COLUMNS AND BEARING WALLS FRAMING PLAN-4	1/100
S-513	GROUND FLOOR SLAB REINF. IN X-DIRECTION-1	1/100
S-514	GROUND FLOOR SLAB REINF. IN X-DIRECTION-4	1/100
S-515	GROUND FLOOR SLAB REINF. IN Y-DIRECTION-1	1/100
S-516	GROUND FLOOR SLAB REINF. IN Y-DIRECTION-4	1/100
S-517	FIRST FLOOR SLAB REINF. IN X-DIRECTION-3	1/100
S-518	FIRST FLOOR SLAB REINF. IN X-DIRECTION-4	1/100
S-519	FIRST FLOOR SLAB REINF. IN Y-DIRECTION-3	1/100
S-520	FIRST FLOOR SLAB REINF. IN Y-DIRECTION-4	1/100
S-521	SECOND FLOOR SLAB REINF. IN X-DIRECTION-4	1/100
S-522	SECOND FLOOR SLAB REINF. IN Y-DIRECTION-4	1/100
S-523	ROOF SLAB-1	1/100
S-524	ROOF SLAB-4	1/100

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Drawing Title:

DRAWING TITLE

Scale:
NS

Drawing No.:
S-001

CODE OF PRACTICE

Design, detailing and workmanship shall be according to the Jordan Code for Reinforced Concrete

DIMENSIONS

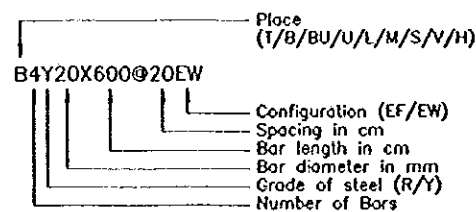
All Dimensions are in Centimetres.

DRAWINGS

- Structural drawings shall be read in conjunction with Architectural, Mechanical and Electrical drawings.
- Sleeves and openings smaller than 200x200 mm are not shown on the Structural drawings. For required openings refer to Architectural, Mechanical and Electrical drawings.
- Contractor shall prepare working drawings and bar bending schedules for reinforcement in a format agreed with the engineer.
- Drawings are not necessarily to scale.
- Chamfers for fair faced concrete are not shown on Structural Drawings. Reference should be made to Architectural details for such purpose.

NOTATION

- B = Bottom Bars
- BOF = Bottom Level of Footing
- BU = Bent Up Bars
- EF = Each Face
- EW = Each Way
- H = Horizontal Bars
- L = L shaped Top Bars
- M = Lacer bars at side faces
- R = Mild Steel Bars
- S = Stirrups
- SOG = Slab on Grade
- T = Top Bars
- TGB = Top Level of Grade Beams
- TOF = Top Level of Footing
- TSS = Top Level of Structural Slab
- U = U shaped Bars
- V = Vertical Bars
- Y = High Yield Bars



MARKING SYSTEM

An alphanumeric marking system is employed for structural members.

A member mark or detail mark is made up of one or two alphabetic characters followed by one or two numeric digits.

The alphabetic characters define a series of structural members. Members which fall in a series usually are of the same type or have the same or similar cross section. The character designation employed for member series is as follows:

Beams	—	B, D, E, H, J, K, L, M, N, O, U, V
Columns	—	C
Footings	—	F
Grade Beams	—	G
Ribbed Slabs	—	J, R
Solid Slabs	—	P
Stairs	—	S
Strip Footings	—	T
Wall Beams	—	W
Sections	—	X, Y, Z

REINFORCED CONCRETE

The following two types of reinforced concrete shall be employed:

C25 - Grade 25 for all reinforced concrete members except columns.

C30 - Grade 30 for all reinforced concrete Columns.

Characteristic Strength as defined by a 150 mm cube at age of 28 days shall be:

C25 - 25 MPa
C30 - 30 MPa

Minimum cement content, per cubic metre, shall be:

C25 - 300 kilograms
C30 - 350 kilograms

Maximum water-cement ratio shall be:

C25 - 0.60
C30 - 0.55

PLAIN CONCRETE

The following two types of plain concrete shall be employed:

C15 - Grade 15 for all plain concrete blinding under foundations.

C20 - Grade 20 for all plain concrete backing for stone walls.

Characteristic Strength as defined by a 150 mm cube at age of 28 days shall be:

C15 - 15 MPa
C20 - 20 MPa

Minimum cement content, per cubic metre, shall be:

C15 - 200 kilograms
C20 - 250 kilograms

Maximum water-cement ratio shall be:

C15 - 0.70
C20 - 0.65

COVER

Clear concrete cover to reinforcement shall be:

50 mm for concrete below grade.
25 mm for internal concrete faces above grade.
30 mm for exposed fair faced concrete surfaces.

AGGREGATES

Maximum aggregate size shall be 20 mm.

FOUNDATIONS

The footings are designed for an allowable bearing capacity equal to 200 kPa, and shall be founded on a 3 meter thick hardcore sub-foundation.

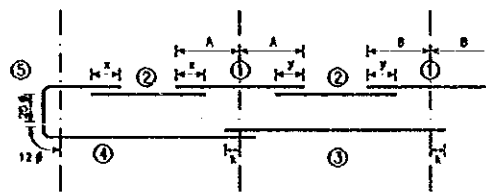
The soil on site shall be excavated and removed down to a minimum of 3 metres below the bottom of foundation level. The ground at the excavated depth shall then be compacted by heavy vibrator roller (16 tons) for at least one week repeatedly. Additionally, a network of boreholes at 3.0 meter spacing shall be drilled to a depth of 3.0 meters. These shall be filled by pressure grouting to ensure that all underground voids are filled.

Following the completion of grouting, the excavation shall be backfilled with a 3.0 meter thick selected coarse grained granular material in layers not exceeding 25cm and compacted to 95% of maximum dry density. Since the bottom of footing levels are not all the same, backfill shall be made to the highest bottom footing level for each zone, and required excavations up to 30cm deep for the deeper foundations shall be made by hand.

REINFORCEMENT

- All reinforcing bars of a diameter larger than 8 millimetres shall be deformed high strength steel bars of Characteristic Strength equal to:
 $f_y = 420$ MPa.
- Bars of 6 and 8 millimetres diameter shall be of mild steel of Characteristic Strength equal to:
 $f_y = 280$ MPa.
- Reinforcement shall comply with BS4449, BS4461 or BS4483.
- Reinforcement shall be placed as shown on the drawings and in the lengths specified.
- Where bar length is not specified, longest practicable bar length shall be employed with staggered lap splices. Lap length shall be 55 times bar diameter.
- Bar crank shall not exceed 1:12.

PLACEMENT RULES FOR BEAM REINFORCEMENT



Placement of bars shall be as follows, unless indicated otherwise:

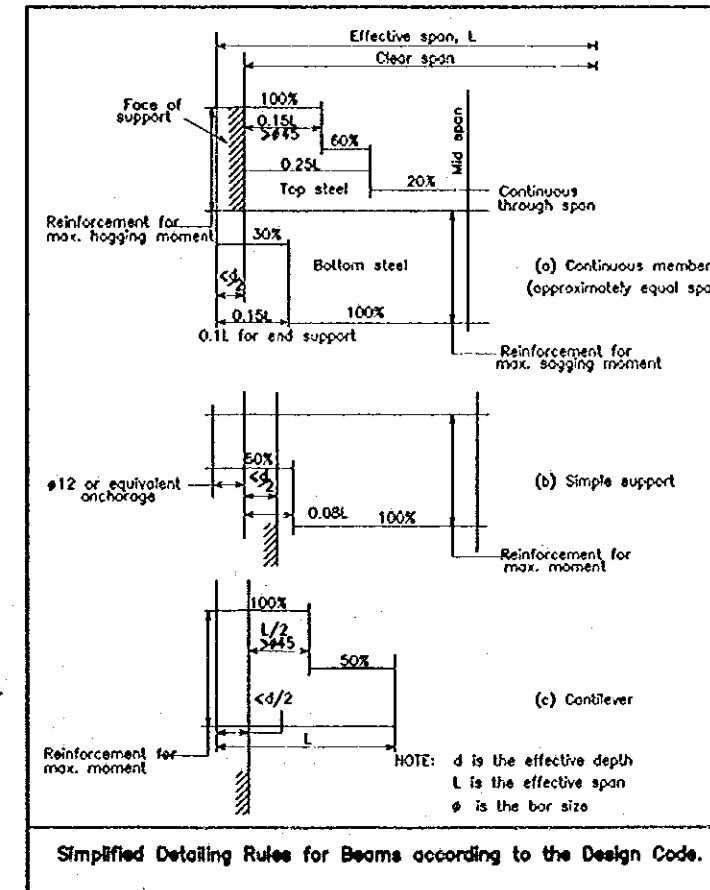
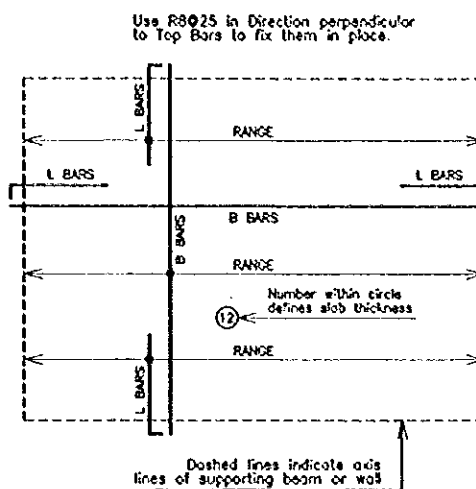
- Top bars at interior supports shall be placed centrally on the support axis lines, for approximately equal span.
- Top bars in spans shall be placed to lap equal lengths with support top bars at both left and right.
- Bottom bars in interior spans shall be placed to extend equal lengths beyond support centerlines at both left and right.
- Bottom bars in exterior spans shall be placed such that they extend a length equal to 12 times bar size beyond the centerline of the exterior support. This length may include a 90 degree bend if sufficient room does not exist.
- L bars as top reinforcement of exterior supports shall extend 25 times the bar size beyond the bend.

PROTECTION OF SUBSTRUCTURE

Bitumeneous Waterproofing Membrane shall be employed to protect and seal all reinforced concrete below grade or in contact with soil, including:

- bottom, side faces and top of footings,
- bottom, side faces and top of grade beams,
- side faces of columns and walls below grade,
- bottom of reinforced slab on grade.

Notation Employed for Solid Slab Panels



Sub-Project:

NATIONAL MUSEUM

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Architects and Engineers

Drawing Title:

GENERAL NOTES-1

Scale:

KS

Drawing No.:

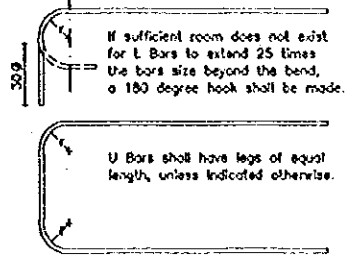
S-002

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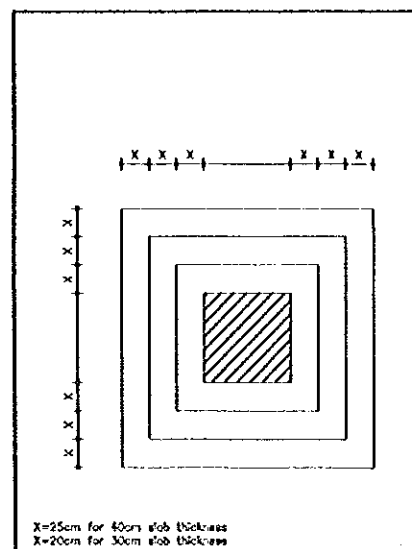
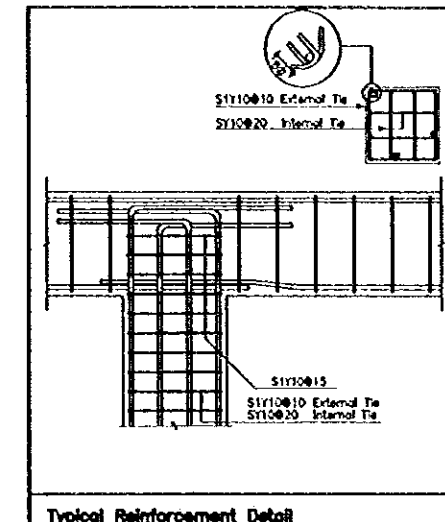
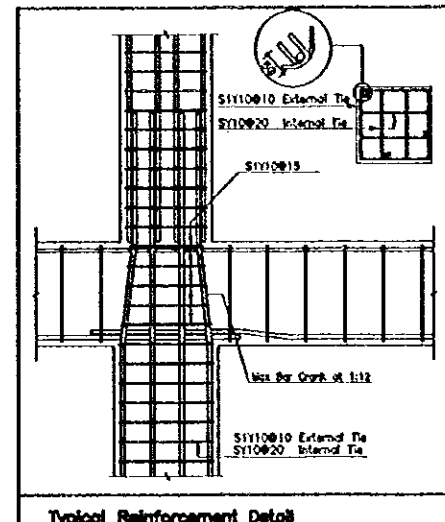
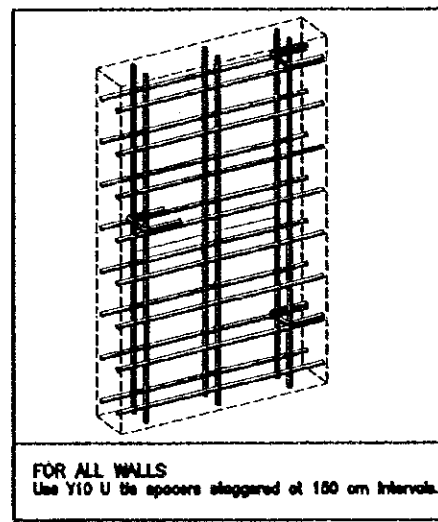
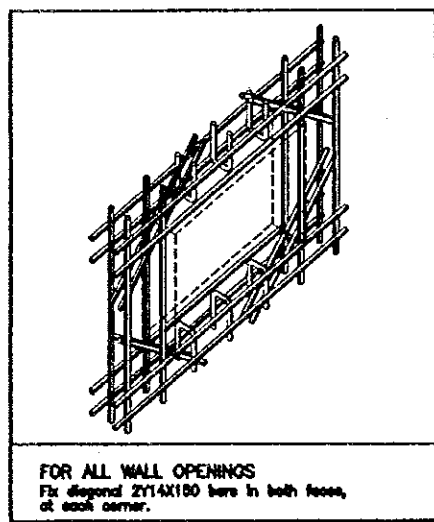
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RADI OF BENDING

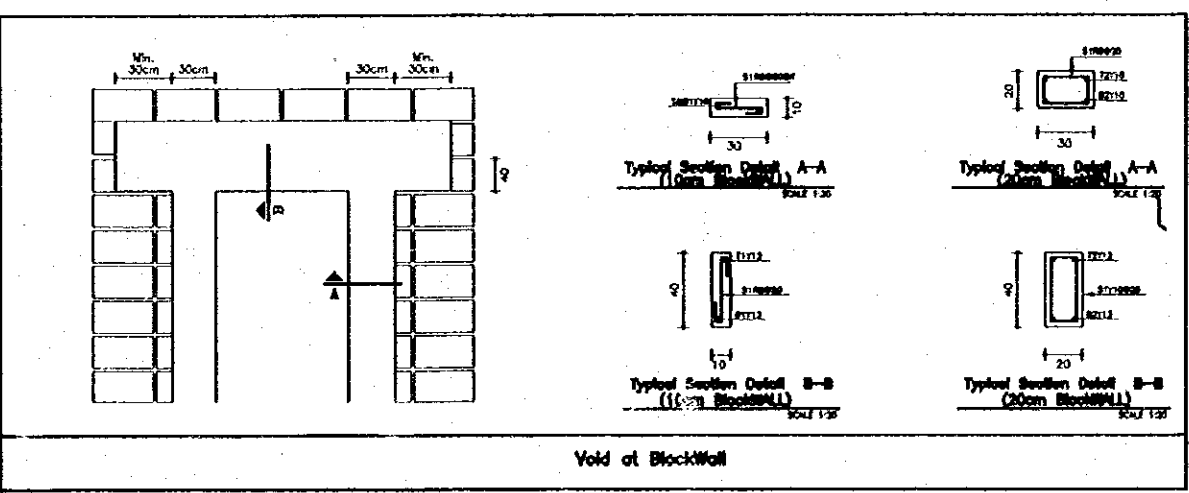
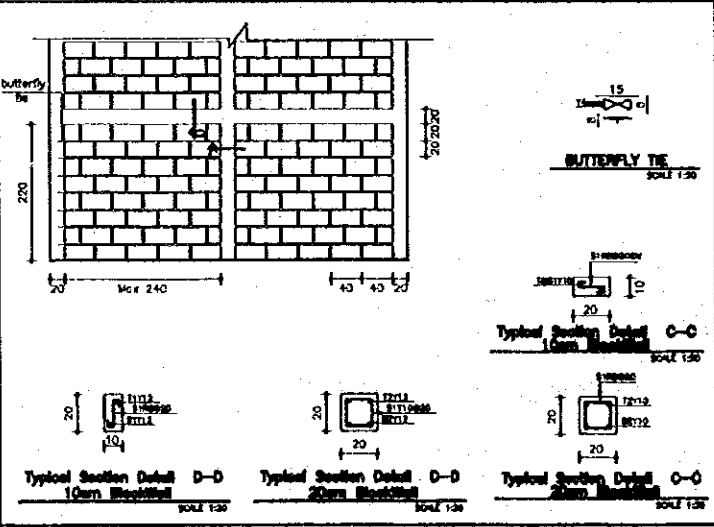
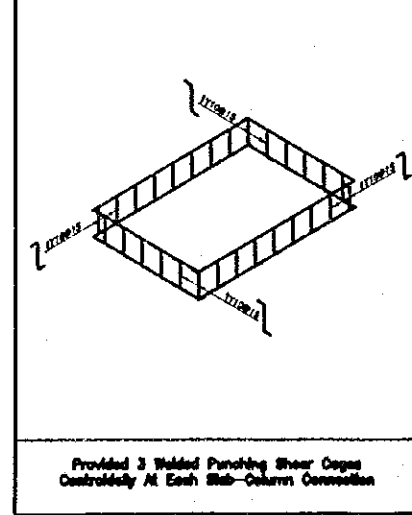
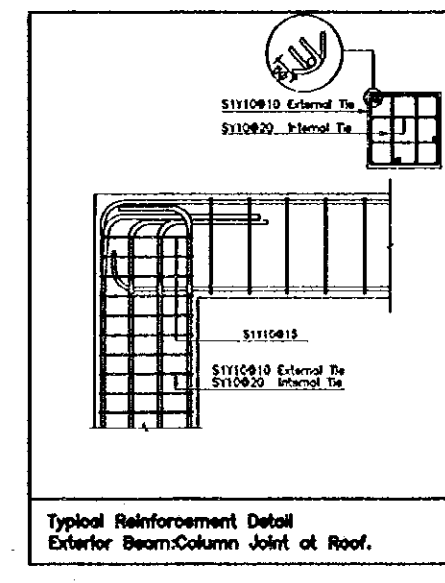
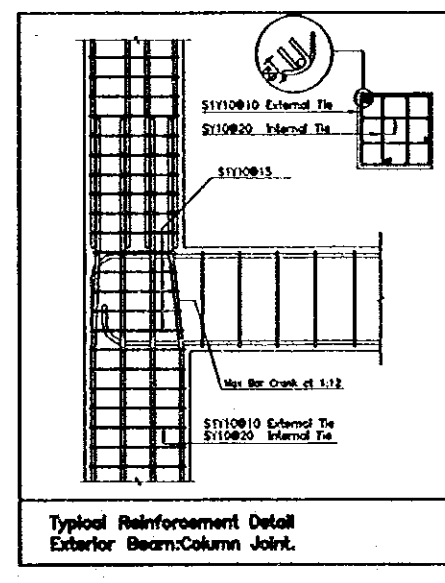
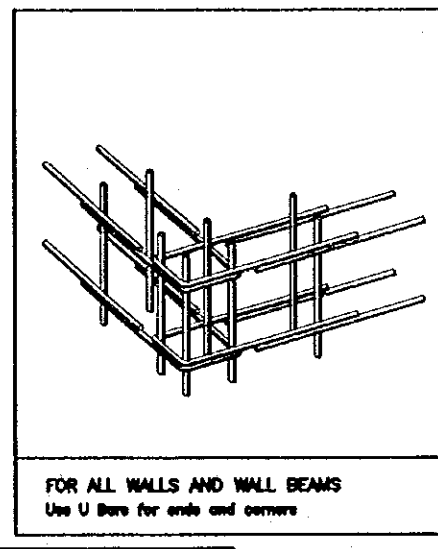
Minimum Radius of Bend for L Bars and U Bars shall be
as follows. For other bars, minimum radius of bend shall
equal to 2 times bar size for Mild Steel and 3 times bar
size for High-yield Steel.



BAR DIAMETER (mm)	MINIMUM r (mm)
8	55
10	70
12	85
14	100
16	120
18	140
20	160
22	180
25	215
32	300



- SYMBOLS**
- = Structural Wall Below Slab Level.
 - = Structural Wall above Slab Level (No Structural Wall Below)
 - = Drop Beam.
 - = Inverted Beam or Parapet Above Slab Level.
 - = Column Below Slab Level.
 - = Column above Slab Level.
 - = Hardcore.
 - = Stone.
 - = Polystyrene.
 - = Block wall.
 - = Plain Concrete Wall Below Slab level.
 - = Plain Concrete.
 - = Waterproofing.
 - = Thickness of Slab.
 - = Level.
 - = Column Mark.
 - = Thickness Of Slab On Grade.



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Drawing title:
GENERAL NOTES-2

Scale: NS Drawing No.: **S-003**