


JAPAN INTERNATIONAL COOPERATION AGENCY
THE GOVERNMENT OF THE HASHEMITE KINGDOM OF JORDAN
THE MINISTRY OF TOURISM AND ANTIQUITIES, THE MINISTRY OF PLANNING

DRAFT
TENDER DOCUMENTS FOR CONSTRUCTION
OF
NATIONAL MUSEUM SUB-PROJECT
THE TOURISM SECTOR DEVELOPMENT PROJECT

VOLUME IV
DRAWINGS
(2) MECHANICAL AND ELECTRICAL WORKS

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August 2000

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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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JICA Study Team:

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Subcontracted Local Consultant:

Jefar Tukan and Partners
Architects and Engineers

Drawing Title:

LIST OF MECHANICAL DRAWINGS

Scale:

Drawing No.:

M000

G:\J0023-JTP\Dwg\Mech\NEW\J0023-M101.dwg Sat Jun 17 15:44:11 2000

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

S-6-Project:
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LEGEND

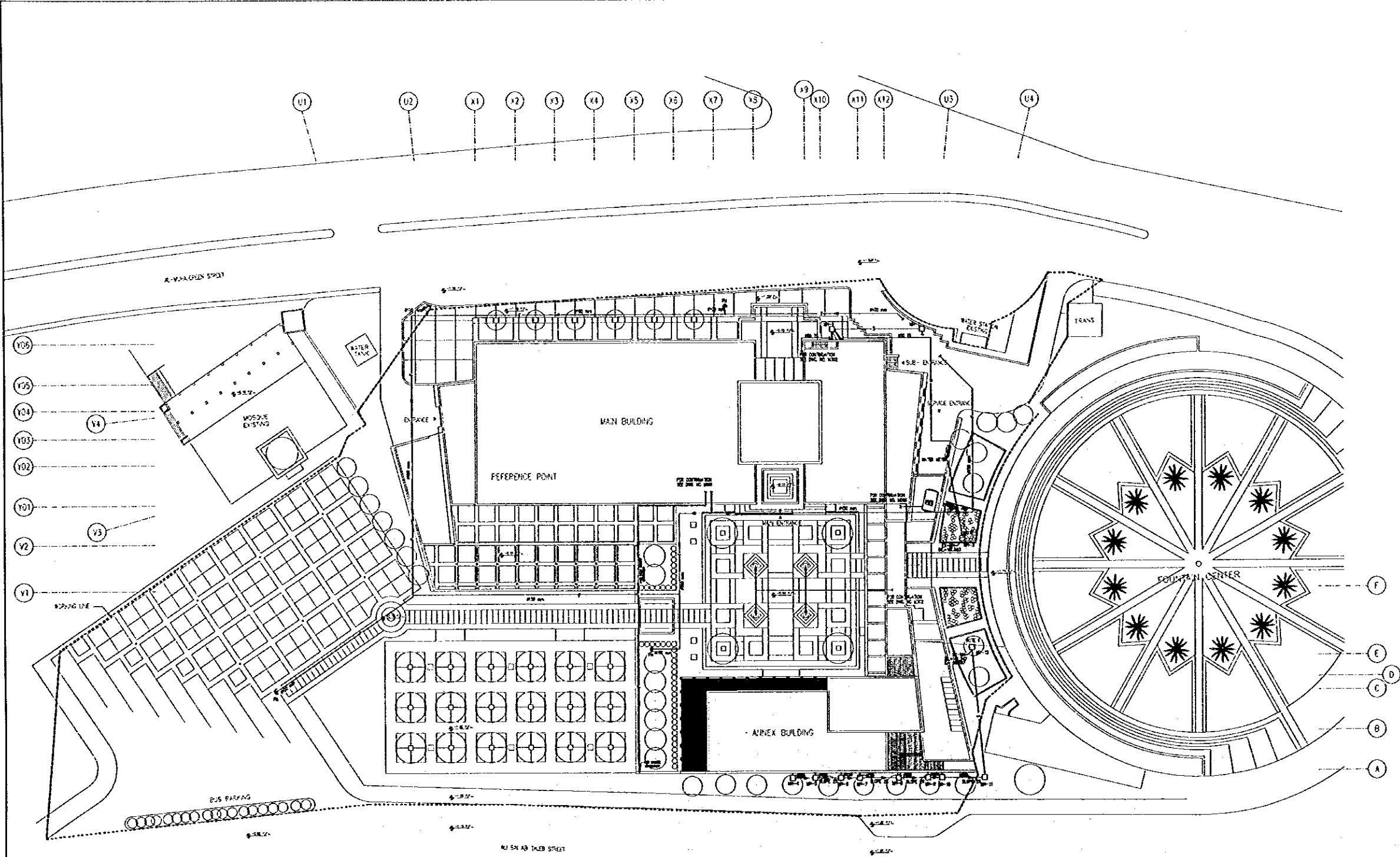
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---	6000 mm
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---	9000 mm
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PLASTER

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Drawing Title:
SITE PLAN
DRAINAGE, WATER & FUEL LAYOUT

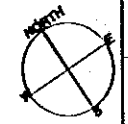
Scale: 1:400 Drawing No: M101



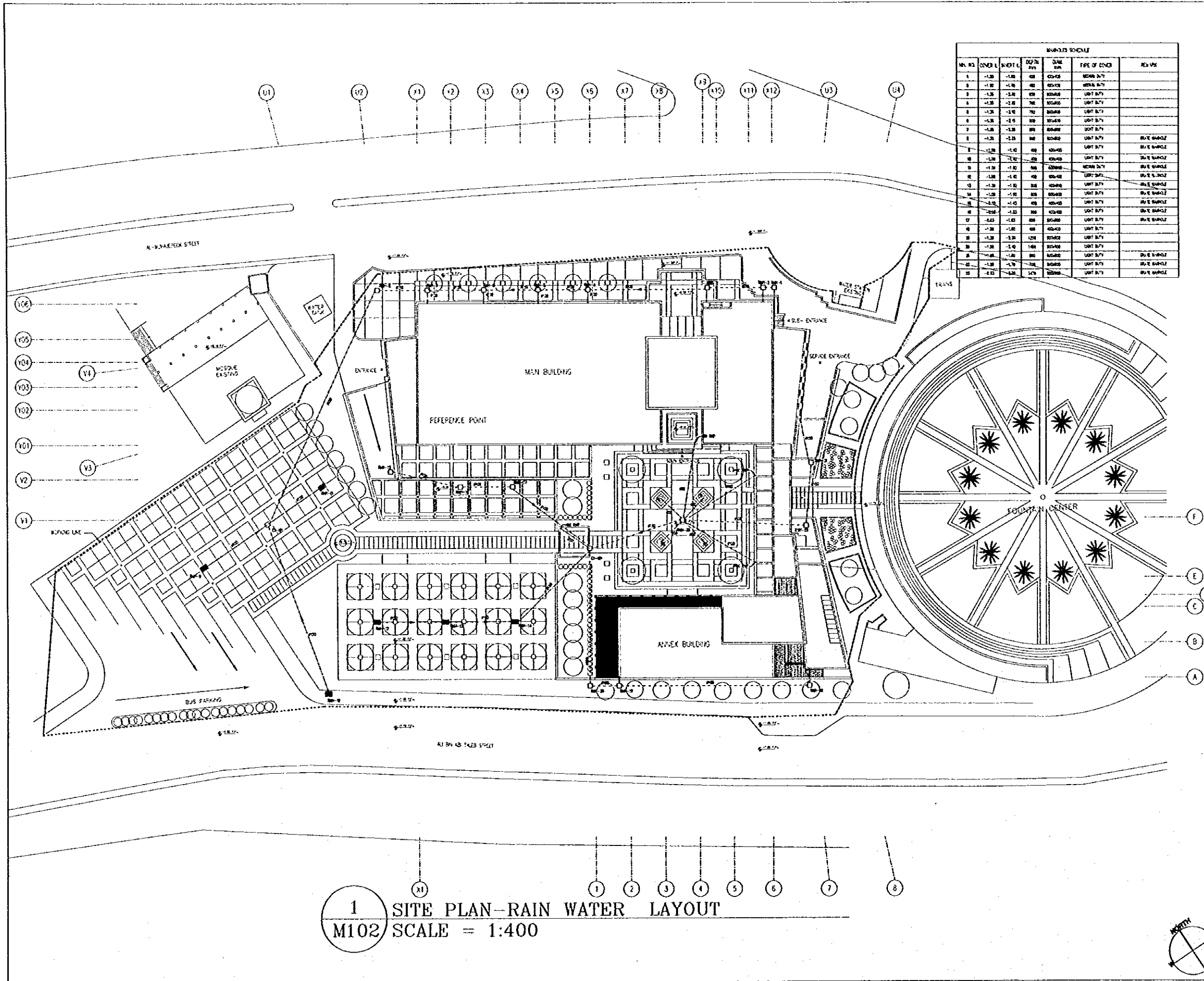
MANHOLES SCHEDULE

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100	10.15	1.5	10.15	10.15	ROUND	ROUND DITY

1 SITE PLAN - DRAINAGE, WATER & FUEL LAYOUT
M101 SCALE = 1:400



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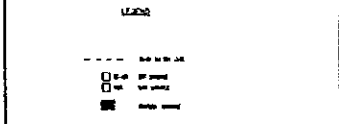
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

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Sub-Project:
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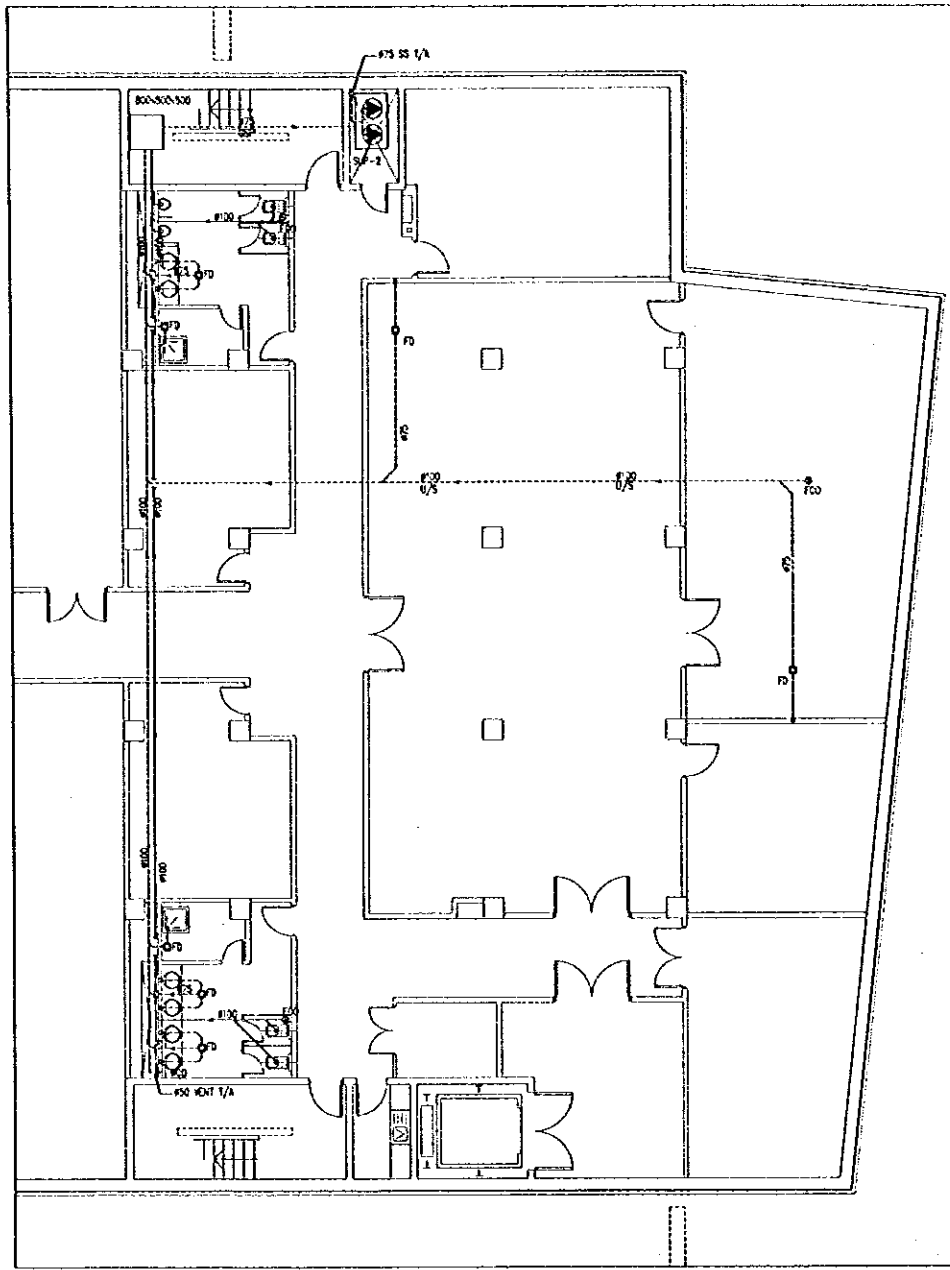


1 SITE PLAN - RAIN WATER LAYOUT
M102 SCALE = 1:400

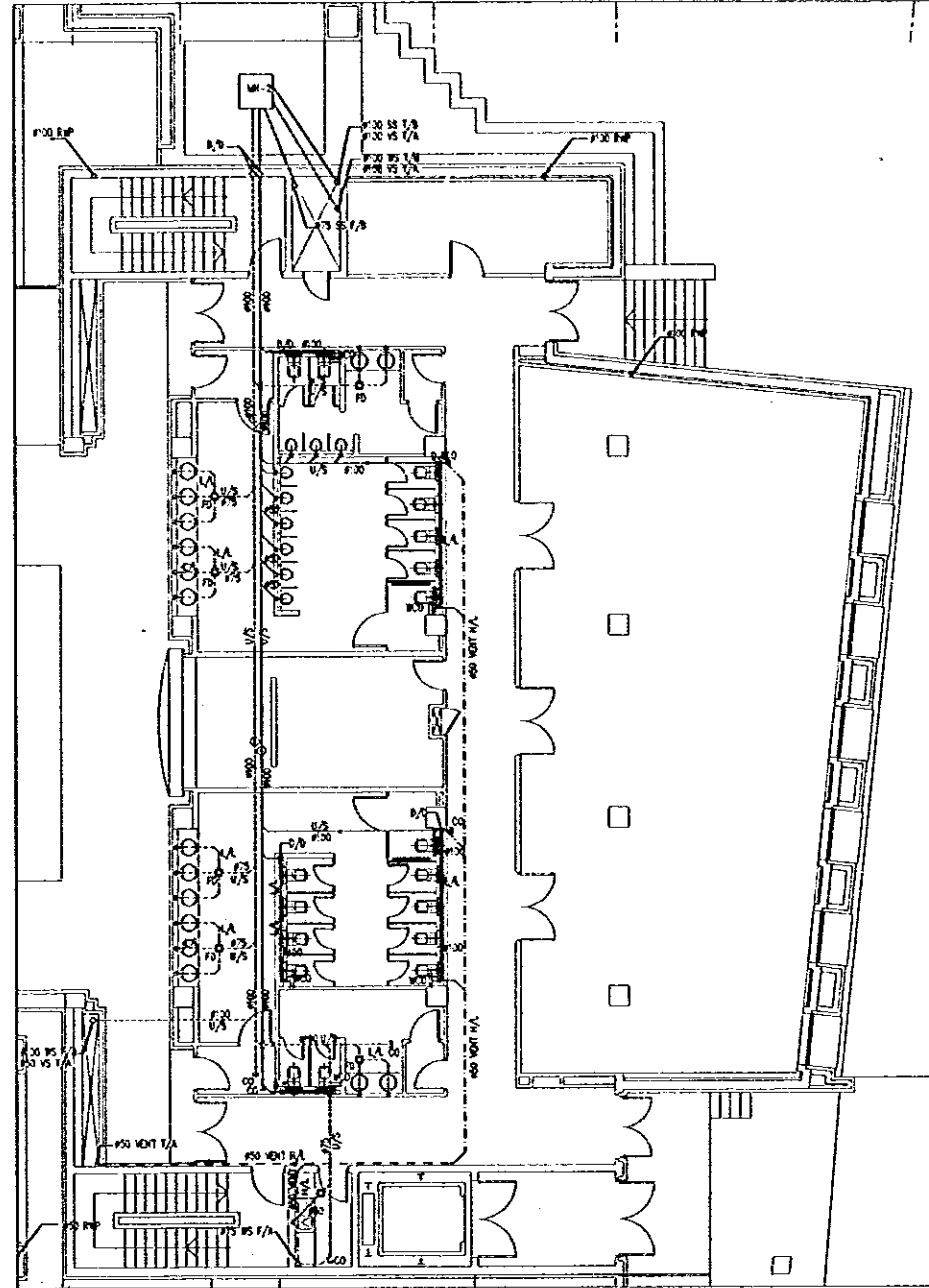
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Drawing Title:
SITE PLAN -
RAIN WATER LAYOUT
Scale: 1:400
Drawing No.: M102

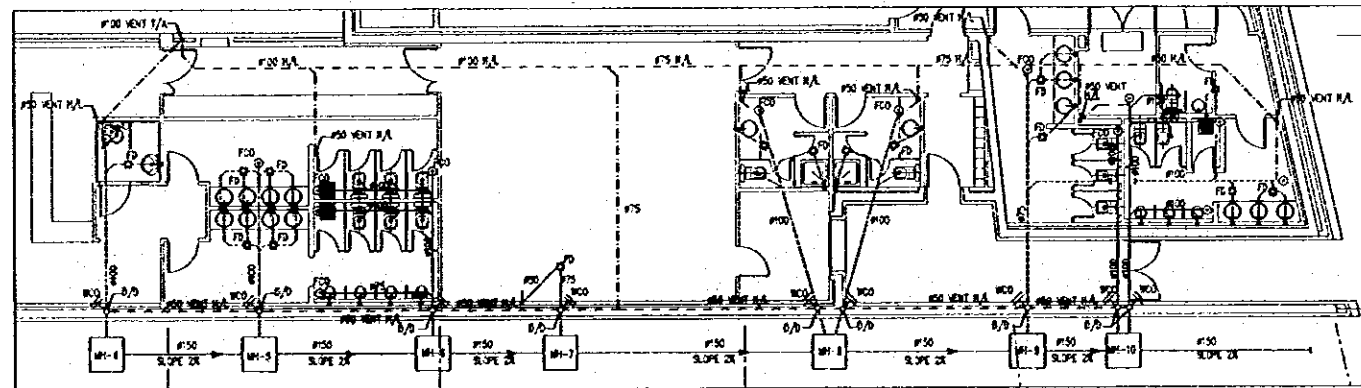




1 BASEMENT FLOOR PLAN-DRAINAGE DETAIL
M204 SCALE = 1:100



2 GROUND FLOOR PLAN-DRAINAGE DETAIL A
M204 SCALE = 1:100



3 GROUND FLOOR PLAN-DRAINAGE DETAIL B
M204 SCALE = 1:100

2 SANITARY BLOCKS-DRAINAGE LAYOUT 1
M204 SCALE = 1:100

Tourism Sector Development Project
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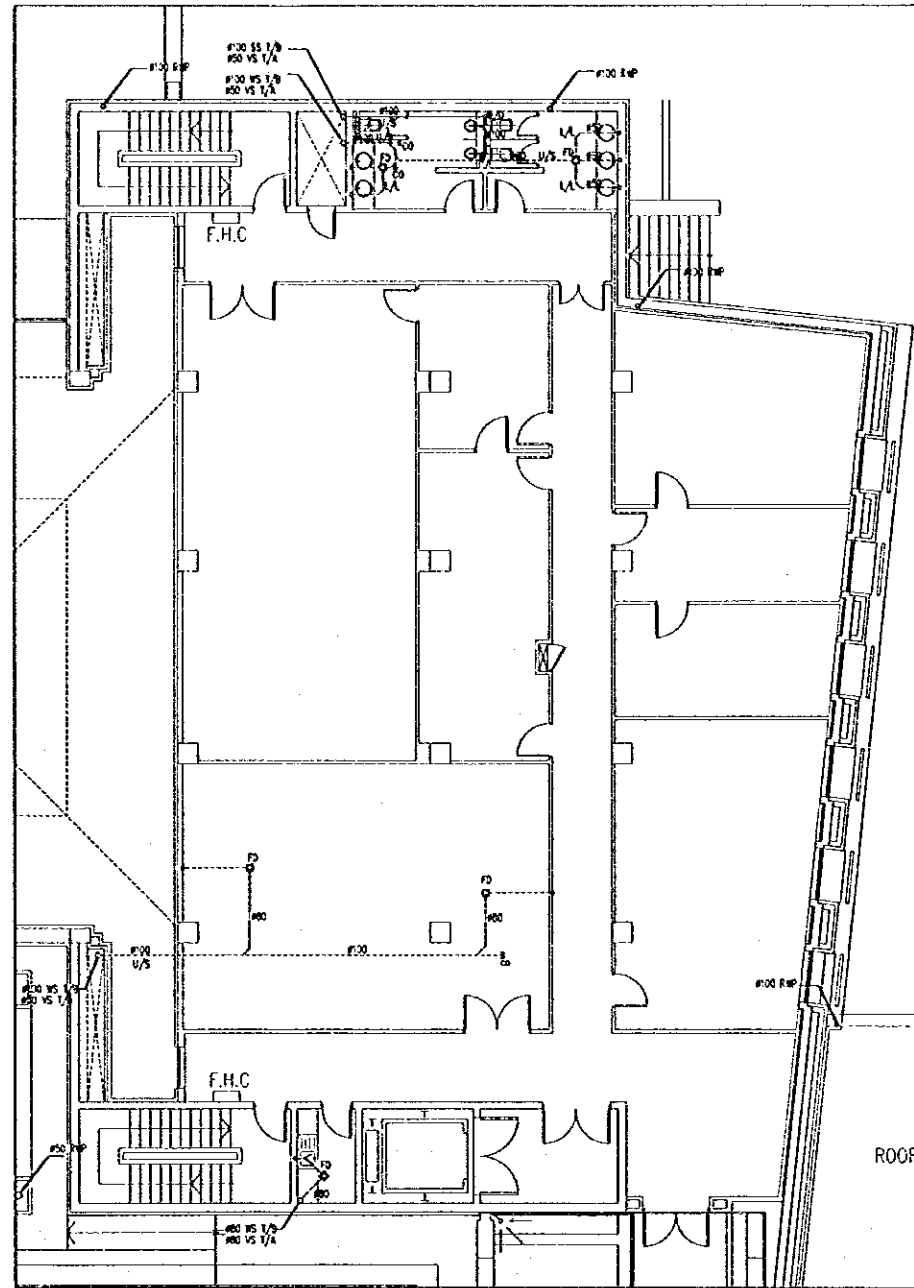
LEGEND:

---	SOL. PIPE
- - -	WASTE PIPE
---	VENT PIPE
M/C	ABOVE FLOOR CEILING
M/L	ABOVE FINISH FLOOR LEVEL
M/B	BELOW FINISH FLOOR
B/T	BATH TUB
C	CLEAROUT
D/S	DRAIN DOWN
F/D	FLOOR DRAIN
F/C/S	FLOOR CLEANOUT
F/A	FROM ABOVE
F/B	FROM BELOW
F/S	FLOOR SINK
H/L	HOT LEVEL
L/S	LOW LEVEL
L/T	LOW TUB
L/A	LOW LEVEL
M	MACHINE
M/S	MACHINE SINK
O/S	OFFSET UP
R/S	ROOF DRAIN
R/W	RAIN WATER PIPE
S	SINK
S/S	SOL. STACK
S/W	SHOWER
T/A	TO ABOVE
T/B	TO BELOW
U/T	UNDER TILE
U/S	UNDER SLAB
U/A	UNDER GROUND
U/S	UNDER SLAB
V/S	VENT STACK
W/S	WASTE STACK
W/C	WATER CLOSET
W/D	WATER DRAIN
W/C	WATER CLOSET
W/C	WATER CLOSET

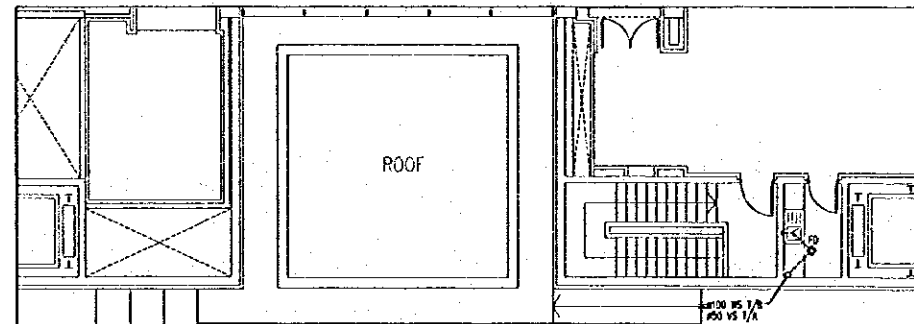
- NOTE:
- 1- DRAINAGE PIPE CONNECTIONS
UNLESS OTHERWISE INDICATED, PIPE CONNECTION
TO EACH SANITARY FIXTURE SHALL BE AS FOLLOWS:
 - * BATH TUB 50mm
 - * SINK 50mm
 - * URINAL 50mm
 - * BATH TUB 50mm
 - * SHOWER 50mm
 - * WATER COOLER 50mm
 - * FLOOR DRAIN 75mm
 - * WATER CLOSET 100mm - 2- ALL VENT STACKS SHALL BE TERMINATED WITH
ROOF VENT CAP, 250mm DIA. IN THE ROOF LEVEL.
 - 3- FOR SANITARY BLOCKS DETAIL REFER TO DWG. NO. M204 & M205
UNLESS OTHERWISE INDICATED.
 - 4- ALL MAIN HORIZONTAL DRAINAGE PIPES ARE
RAMPED UNDER THE SLOPE OF THE LOWER FLOOR.
 - 5- ALL PIPE CONNECTIONS FROM SANITARY FIXTURES
TO FLOOR DRAINS ARE RAMPED UNDER TILE.
 - 6- ALL HORIZONTAL VENT PIPES ARE RAMPED
AT HIGH LEVELS OF THE SAME FLOOR UNLESS LOCATED
ELONG-OUT AND QUANTITY OF FIXTURE UNIT
SHOULD BE COORDINATED WITH OWNER.
 - 7- ALL PIPE IN THE DRAINAGE SYSTEM SPECIFIED

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Drawing Title:
SANITARY BLOCKS-
DRAINAGE LAYOUT 1
Scale: 1:100 Drawing No: M204



1 FIRST FLOOR PLAN-DRAINAGE DETAIL
M205 SCALE = 1:100



2 SECOND FLOOR PLAN-DRAINAGE DETAIL
M205 SCALE = 1:100

2 SANTITARY BLOCKS-DRAINAGE LAYOUT 2
M205 SCALE = 1:100

Tourism Sector Development Project
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The Government of
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LEGEND:

---	SOIL PIPE
----	WATER PIPE
- - - -	VENT PIPE

APC	ABOVE FLOOR DRAINAGE
APL	ABOVE FLOOR LEVEL
BL	BELOW FLOOR LEVEL
BT	BATH TUB
CL	CLEARLY
DD	DROP DRAIN
FD	FLOOR DRAIN
FCD	FLOOR CLEANOUT
F/A	FRESH AIR INLET
F/B	FRESH AIR OUTLET
F/S	FRESH AIR SUPPLY
H/L	HIGH LEVEL
H/S	HIGH SILL
L/L	LOW LEVEL
L/S	LOW SILL
MS	MISCELLANEOUS
OD	OUTLET DRAIN
RD	ROOF DRAIN
R/W	RAIN WATER PIPE
SS	SOIL STACK
S	SEWER
SH	SHOWER
S/A	TO ABOVE
S/B	TO BELOW
S/T	UNDER SLAB
S/S	UNDER SLAB
U/D	UNDER DRAINAGE
US	UPPER
VS	VENT STACK
WS	WATER STACK
WC	WATER CLEANOUT
WC	WATER CLOSET
WB	WASH HAND BASIN
WC	WATER COOLER

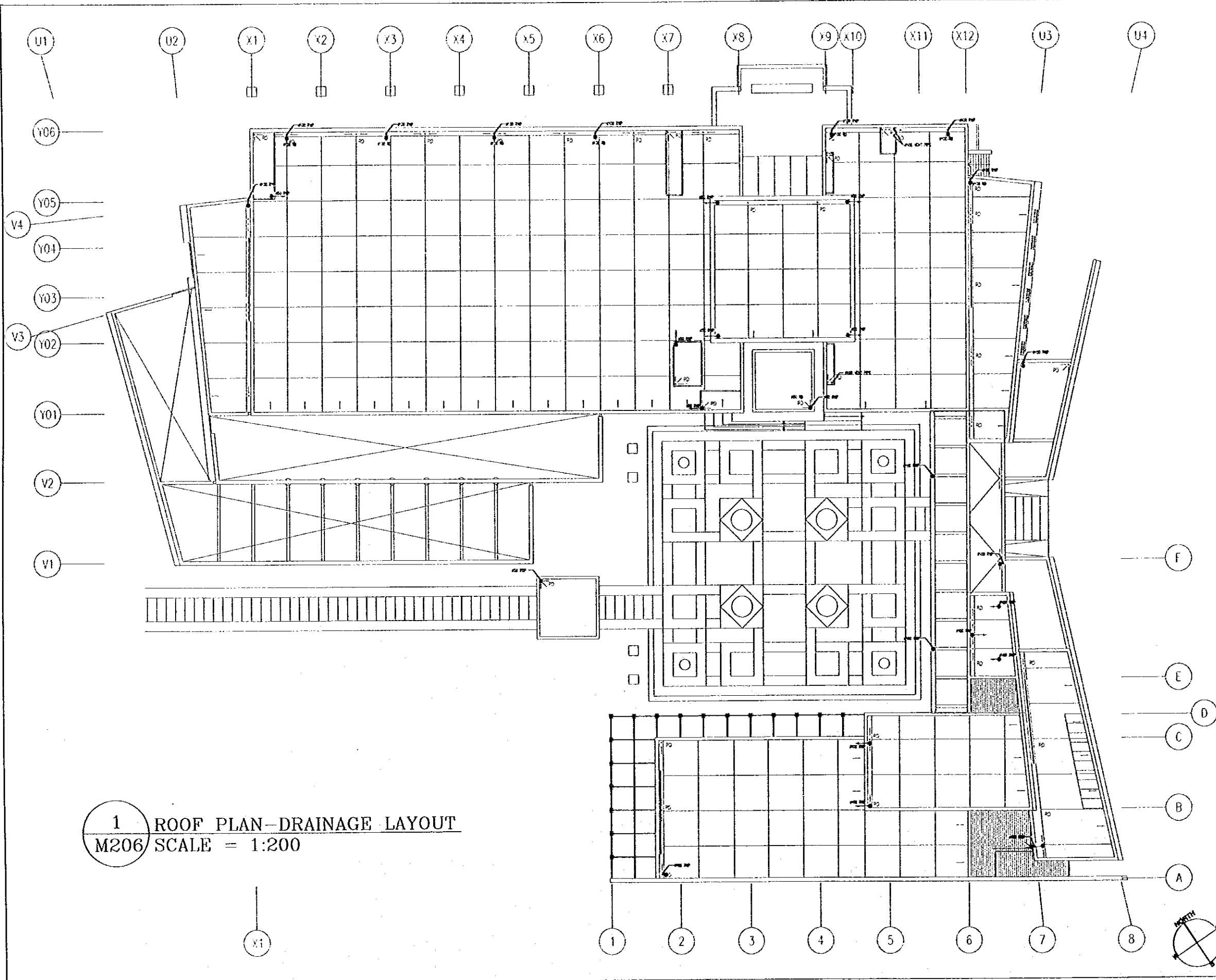
- NOTE:
- 1- DRAINAGE PIPE CONNECTIONS UNLESS OTHERWISE INDICATED PIPE CONNECTION TO EACH SANITARY FIXTURE SHALL BE AS FOLLOWS:
 - * WASH HAND BASIN 50mm
 - * SH 50mm
 - * URINAL 50mm
 - * BATH TUB 50mm
 - * SHOWER 50mm
 - * WATER COOLER 50mm
 - * FLOOR DRAIN 75mm
 - * WATER CLOSET 100mm
 - 2- ALL VENT STACKS SHALL BE TERMINATED WITH ROOF VENT CAP AT LEAST ABOVE ROOF LEVEL.
 - 3- FOR SANITARY BLOCKS DETAIL REFER TO END OF WORK BOOK.
 - 4- SLOPE OF DRAINAGE PIPES SHALL BE 1% UNLESS OTHERWISE INDICATED.
 - 5- ALL SANITARY DRAINAGE PIPES ARE RUNNING UNDER THE SLAB OF THE LOWER FLOOR.
 - 6- ALL PIPE CONNECTIONS FROM EXTERIOR FIXTURES TO FLOOR DRAIN ARE RUNNING UNDER SLAB.
 - 7- ALL HORIZONTAL VENT PIPES ARE RUNNING AT HIGH LEVEL OF THE SAME FLOOR WHERE LOCATED.
 - 8- SLOPE AND QUANTITY OF FUTURE UNIT SHALL BE COORDINATED WITH OWNER.
 - 9- ALL DIM IN MM UNLESS OTHERWISE SPECIFIED.

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JICA Study Team:
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Subcontracted Local Consultant:
Jafar Tukan and Partners Architects and Engineers

Drawing Title:
SANTITARY BLOCKS-DRAINAGE LAYOUT 2

Scale: 1:100 Drawing No: M205

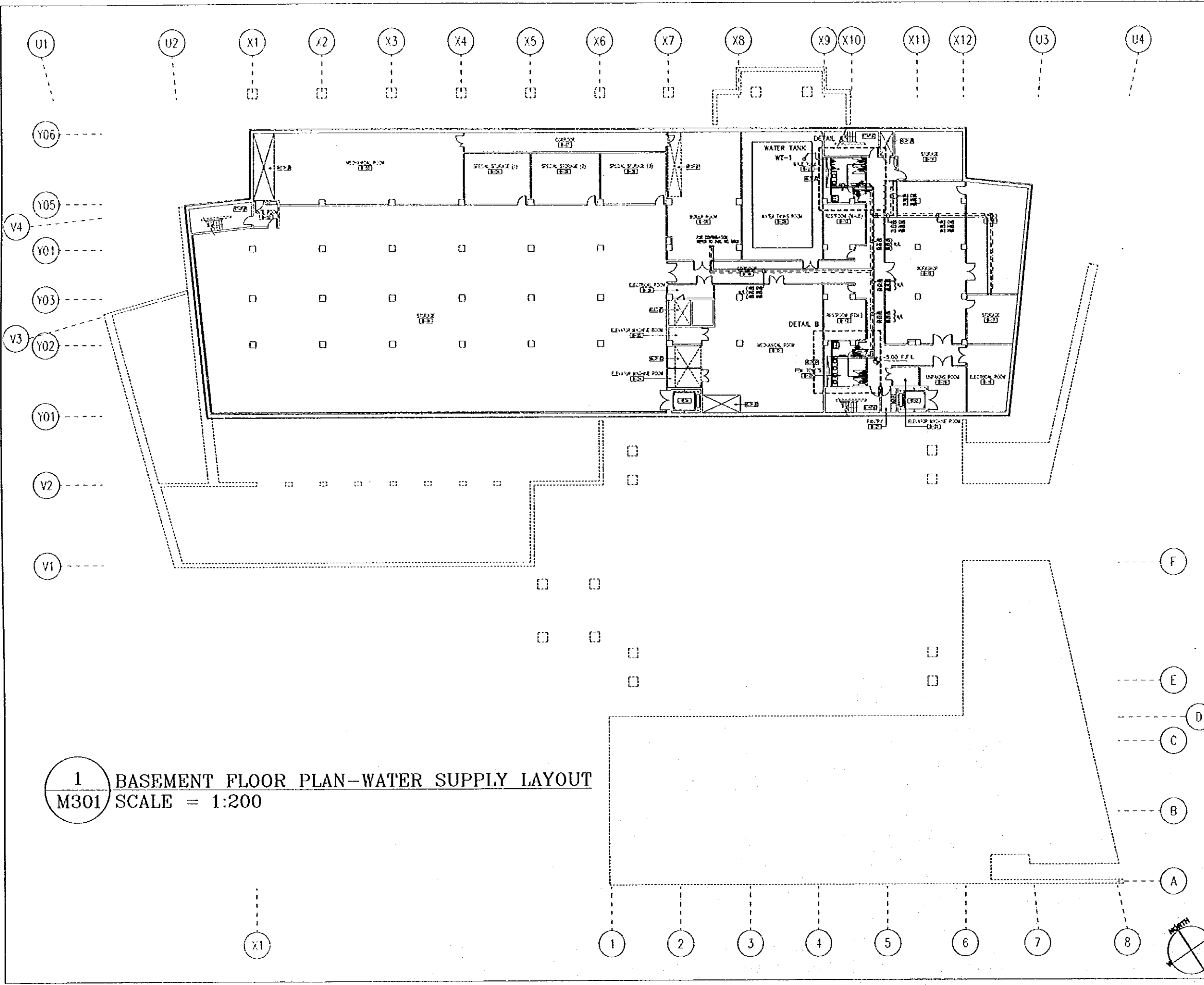
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1 ROOF PLAN-DRAINAGE LAYOUT
M206 SCALE = 1:200

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: This detailed design has been executed by a team of consultants as shown below in accordance with the agreement between Japan International Cooperation Agency (JICA) and JICA Study Team. The copyright of this drawing rests with JICA.	
R.D. R.W.P.	ROOF DRAIN RAIN WATER PIPE
Designed by: Japan International Cooperation Agency (JICA) JICA Study Team: Joint Venture of Pacific Consultants International and Yamashita Setkel Inc. Subcontracted Local Consultant: Jafor Tukon and Partners Architects and Engineers	
Drawing Title: ROOF PLAN- DRAINAGE LAYOUT	
Scale: 1:200	Drawing No.: M206

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1 BASEMENT FLOOR PLAN-WATER SUPPLY LAYOUT
M301 SCALE = 1:200

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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of consultants as shown below in accordance with
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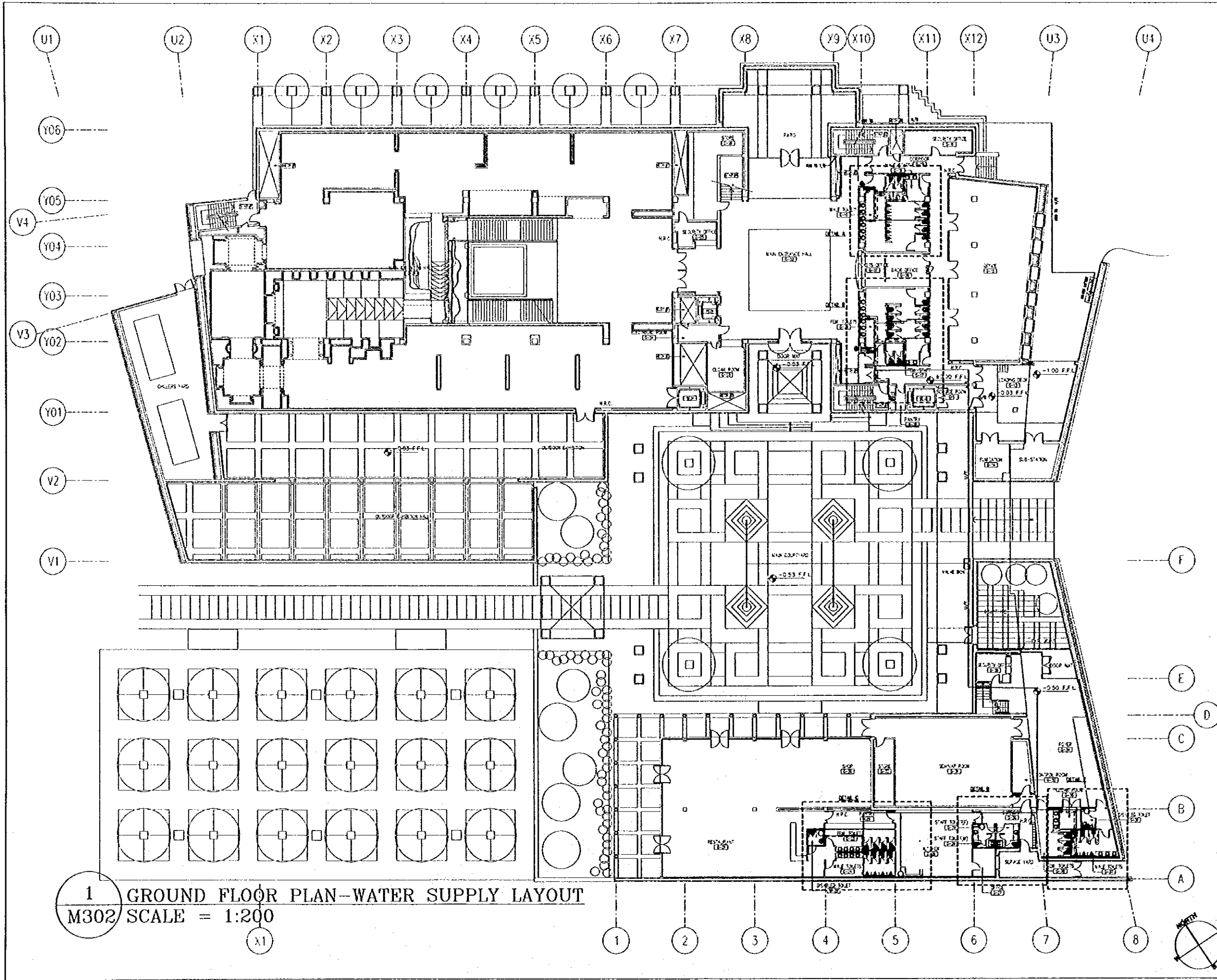
- LEGEND:
- CW Cold Water Supply
 - HW Hot Water Supply
 - HW Hot Water Return
 - SW Cold Water Return
 - SW Cold Water Return No.1
 - SW Cold Water Return No.2
 - SW Cold Water Return No.3
 - SW Cold Water Return No.4
 - SW Cold Water Return No.5
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 - SW Cold Water Return No.98
 - SW Cold Water Return No.99
 - SW Cold Water Return No.100

NOTES:
1- FOR SANITARY DETAILS REFER TO DWG. NO. M302
2- ALL DIM. ARE IN MM UNLESS OTHERWISE STATED

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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:
BASEMENT FLOOR PLAN-
WATER SUPPLY LAYOUT
Scale:
1:200
Drawing No.:
M301

G:\J0023-JTP\DWG\Mech\NEW\J0023-M302.dwg Sat Jun 17 15:57:15 2000



1 GROUND FLOOR PLAN-WATER SUPPLY LAYOUT
M302 SCALE = 1:200

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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- LEGEND:
- CWS COLD WATER SUPPLY
 - HWS HOT WATER SUPPLY
 - HWR HOT WATER RETURN
 - CWR COLD WATER RETURN
 - SW SWELLING VALVE
 - AVS ABOVE FLOOR VALVE
 - AVT AIR TRAPPING AIR VALVE
 - APL ABOVE FLOOR FLOOR LEVEL
 - BFL BELOW FLOOR SLAB
 - BT BATH TUB
 - B/D BATH DRAIN
 - EWH ELECTRIC WATER HEATER
 - F/A FRESH AIR
 - F/D FRESH DRAIN
 - HS HAND SINK
 - H/L H/W (L.E.)
 - H/W H. WALL
 - L/L L/W (L.E.)
 - O/L OFFICE L.P.
 - SH SHOWER
 - S SINK
 - T/A T.O. (L.E.)
 - T/B T.O. (L.E.)
 - U/W UNDER FLOOR
 - U/S UNDER SINK
 - WC WATER CLOSET
 - WB WASH HAND BASIN
 - WC WATER COOLER
 - WT WATER TANK

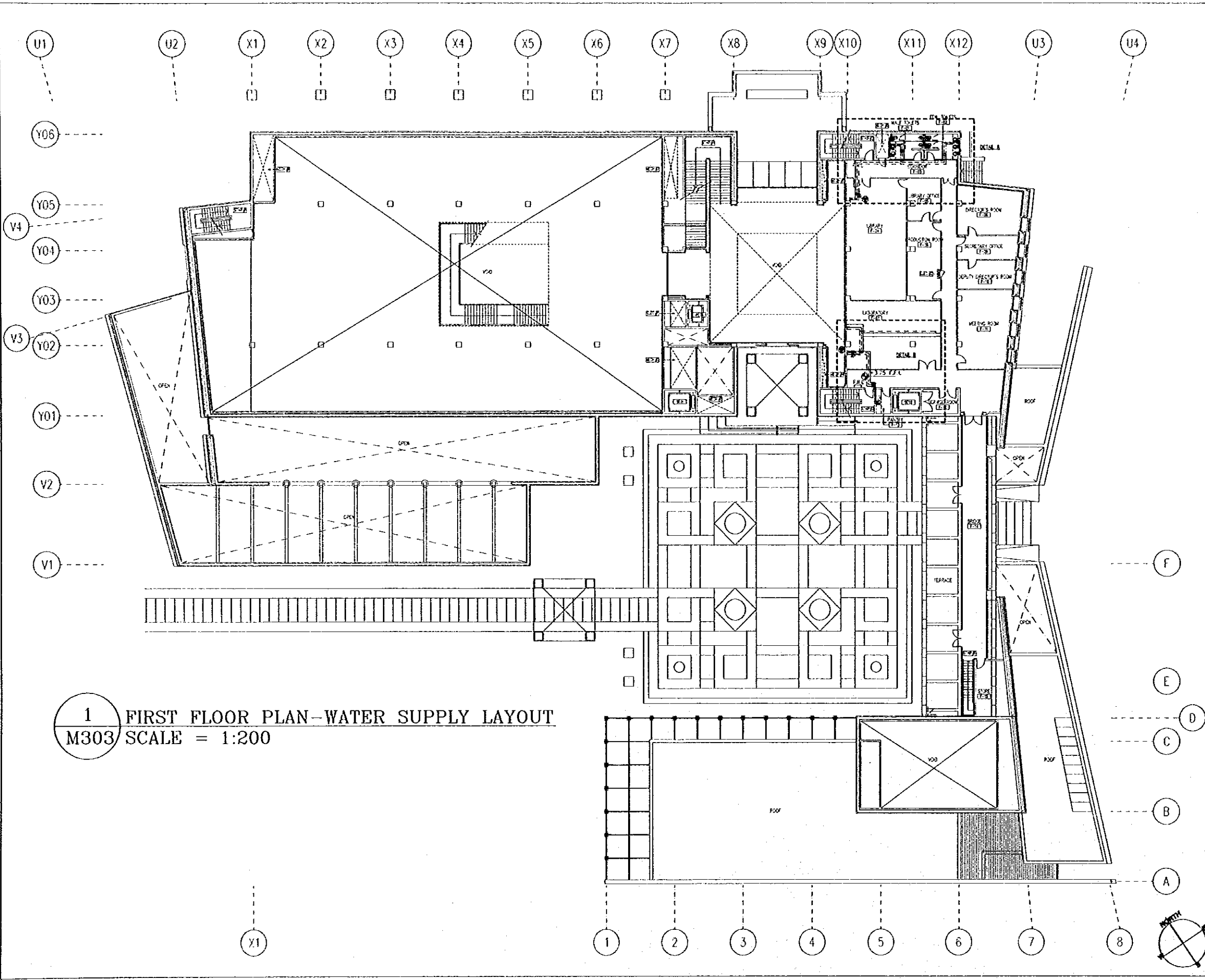
NOTES:
1- FOR DIMENSIONS REFER TO DIM. NO. WITH A WORD
2- ALL DIM. ARE IN MM UNLESS OTHERWISE STATED

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JICA Study Team:
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Pacific Consultants International and
Yamasita Sekkel Inc.
Subcontracted Local Consultant:
Jafor Tukan and Partners
Architects and Engineers

Drawing Title:
GROUND FLOOR PLAN-
WATER SUPPLY LAYOUT

Scale: 1:200
Drawing No: M302

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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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LEGEND:

- CWS COLD WATER SUPPLY
- HWS HOT WATER SUPPLY
- HWS HOT WATER RETURN
- CWS COLD WATER RETURN
- ⊕ STAIRING SHAFT
- ⊕ A/C A/C FLOOR DRAIN
- ⊕ A/F AUTOMATIC AIR RESET
- ⊕ A/F A/C FLOOR LEVEL
- ⊕ B/F BOLD FLOOR SLAB
- ⊕ B/F BATH R/B
- ⊕ B/S BATH ROOM
- ⊕ C/H CIRCULATING WATER HEATER
- ⊕ F/A FROM A/C
- ⊕ F/B FROM BATH
- ⊕ F/S FROM SINK
- ⊕ H/L HIGH LEVEL
- ⊕ H/W H/W WALL
- ⊕ L/W LOW LEVEL
- ⊕ O/L OFFICE L.P.
- ⊕ S/S SINK
- ⊕ S/W S/W
- ⊕ T/A TO A/C
- ⊕ T/B TO BATH
- ⊕ T/S TO SINK
- ⊕ U/P-1 UP
- ⊕ U/P-2 UP
- ⊕ U/P-3 UP
- ⊕ U/P-4 UP
- ⊕ U/P-5 UP
- ⊕ U/P-6 UP
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Designed by:
Japan International Cooperation Agency (JICA)

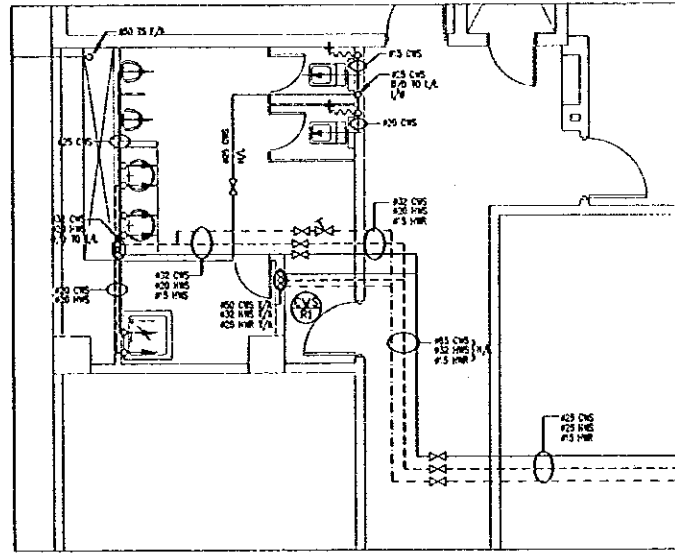
JICA Study Team:
Joint Venture of Pacific Consultants International and Yomosta Sekkel Inc.

Subcontracted Local Consultant:
Jafar Tukan and Partners Architects and Engineers

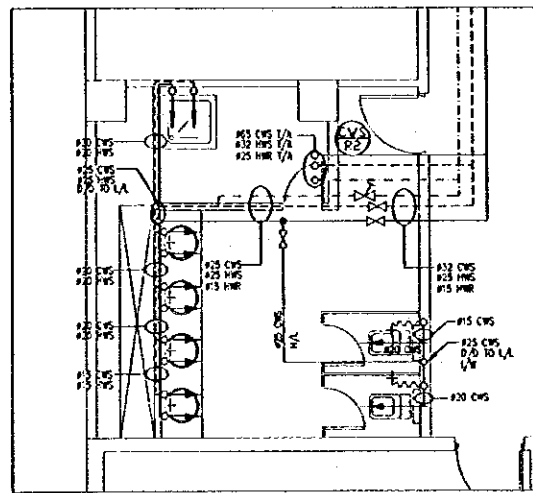
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FIRST FLOOR PLAN-WATER SUPPLY LAYOUT

Scale: 1:200 Drawing No: M303

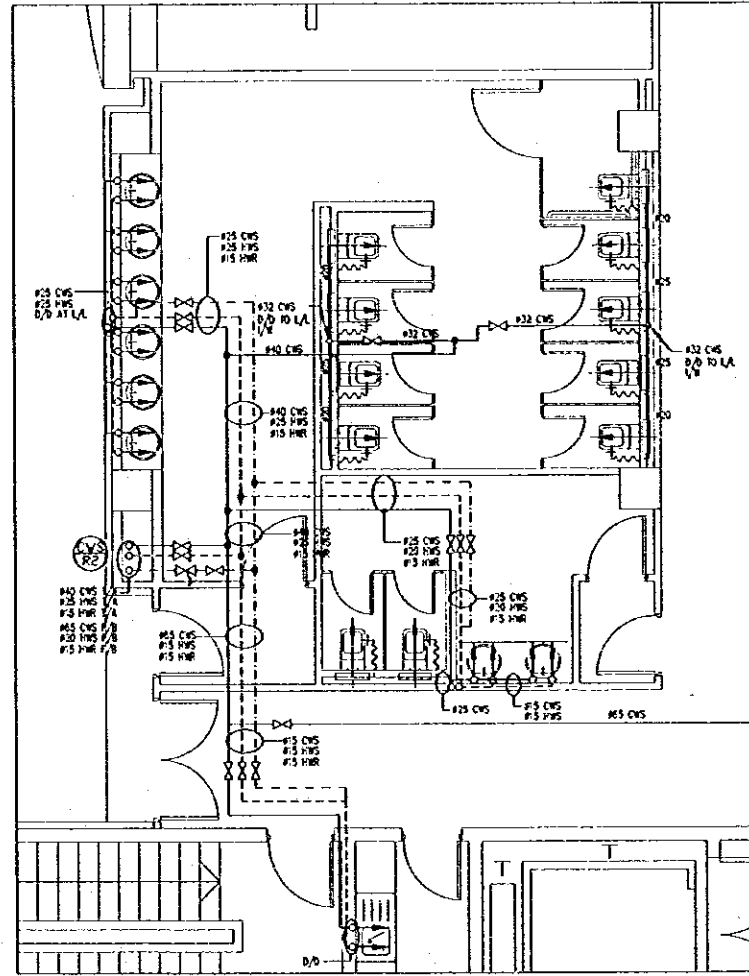
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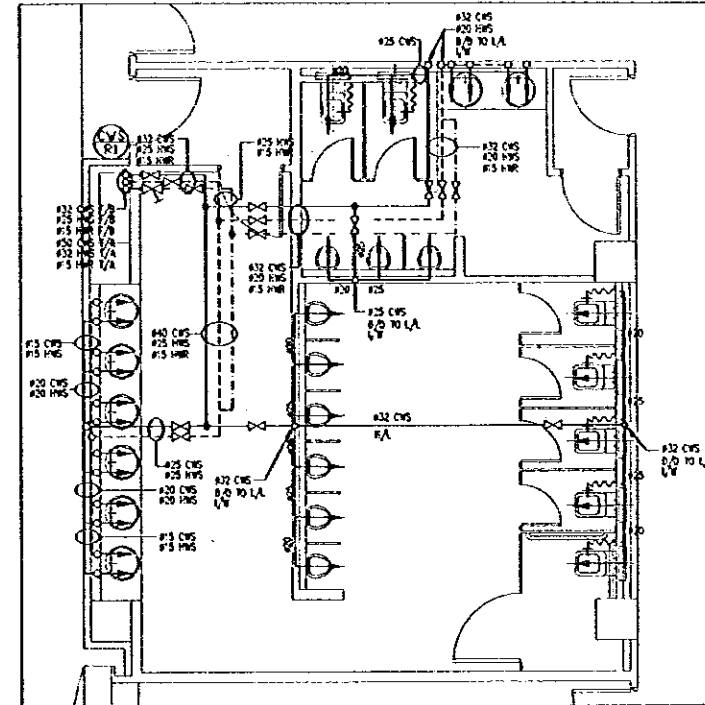
1 BASMENT FLOOR PLAN-WATER DETAIL A
M304 SCALE = 1:50



2 BASMENT FLOOR PLAN-WATER DETAIL B
M304 SCALE = 1:50



3 GROUNDED FLOOR PLAN-WATER DETAIL A
M304 SCALE = 1:50



3 GROUNDED FLOOR PLAN-WATER DETAIL B
M304 SCALE = 1:50

2 SANITARY BLOCKS-WATER SUPPLY LAYOUT 1
M304 SCALE = 1:50

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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LEGEND:

- CWS COLD WATER SUPPLY
- HWS HOT WATER SUPPLY
- - - HWB HOT WATER RETURN
- - - CWR COLD WATER RETURN
- ⊕ ISOLATING VALVE
- ⊖ AIRCIE FRESH COOLERS
- ⊙ AIRCIE FRESH AIR HEAT
- ⊙ AIRCIE FRESH FLOOR LEAK
- ⊙ BELOW FLOOR SLAB
- ⊙ BATH TUB
- ⊙ DRAIN DOWN
- ⊙ ELEC. WATER HEATER
- ⊙ FRESH AIRCIE
- ⊙ FRESH BELOW
- ⊙ HAND SHREY
- ⊙ HOT LEAK
- ⊙ IN WALL
- ⊙ LOOF LEAK
- ⊙ OFFICE UP
- ⊙ SHOWER
- ⊙ SINK
- ⊙ TO AIRCIE
- ⊙ TO BELOW
- ⊙ URINAL
- ⊙ UNDER SINK
- ⊙ UNDER SHREY
- ⊙ WATER CLOSET
- ⊙ WASH HAND BASIN
- ⊙ WATER COOLER
- ⊙ WATER TAP

Designed by:

Japan International Cooperation
Agency (JICA)

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:

SANITARY BLOCKS-
WATER SUPPLY LAYOUT 1

Scale:
1:50

Drawing No.:
M304

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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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LEGEND:

- CWS COLD WATER SUPPLY
- HWS HOT WATER SUPPLY
- HWB HOT WATER RETURN
- CWR COLD WATER RETURN
- ⊕ COLD WATER RESER. TANK
- ⊖ ISOLATING VALVE
- AVC ABOVE FALSE CEILING
- AVV AUTOMATIC AIR VENT
- ATL ABOVE FINISH FLOOR LEVEL
- BFL BELOW FLOOR SLAB
- BT BATH TUB
- BD DOWN DOWN
- EW ELECTRIC WATER HEATER
- F/A FROM ABOVE
- F/B FROM BELOW
- HS HAND SHOWER
- HL HIGH LEVEL
- HW IN WALL
- L/L LOW LEVEL
- O/U OFFSET UP
- SH SHOWER
- S/S TO ABOVE
- T/B TO BELOW
- UR URINAL
- U/L UNDER FLOOR
- U/G UNDER GROUND
- WC WATER CLOSET
- WB BATH HAND BASKET
- W/C WATER CLOSET
- WT WATER TANK

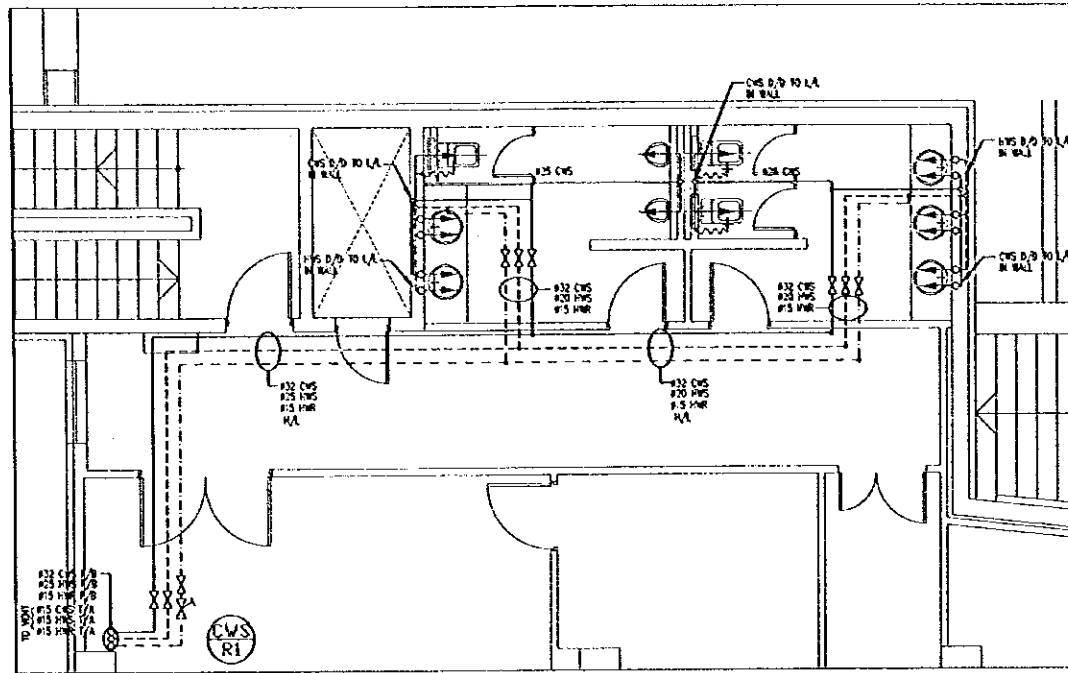
Designed by:
Japan International Cooperation
Agency (JICA)

JICA Study Team:
Joint Venture of
Pacific Consultants International and
Yamasita Sekkel Inc.

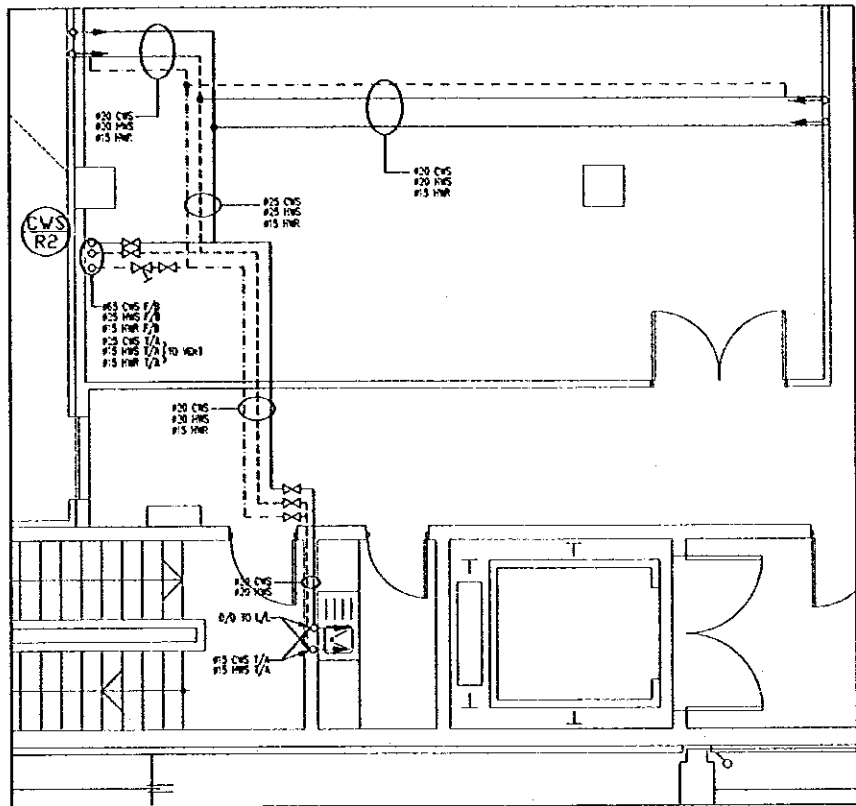
Subcontracted Local Consultant:
Jafar tukan and Partners
Architects and Engineers

Drawing title:
SANTITARY BLOCKS—
WATER SUPPLY LAYOUT 2

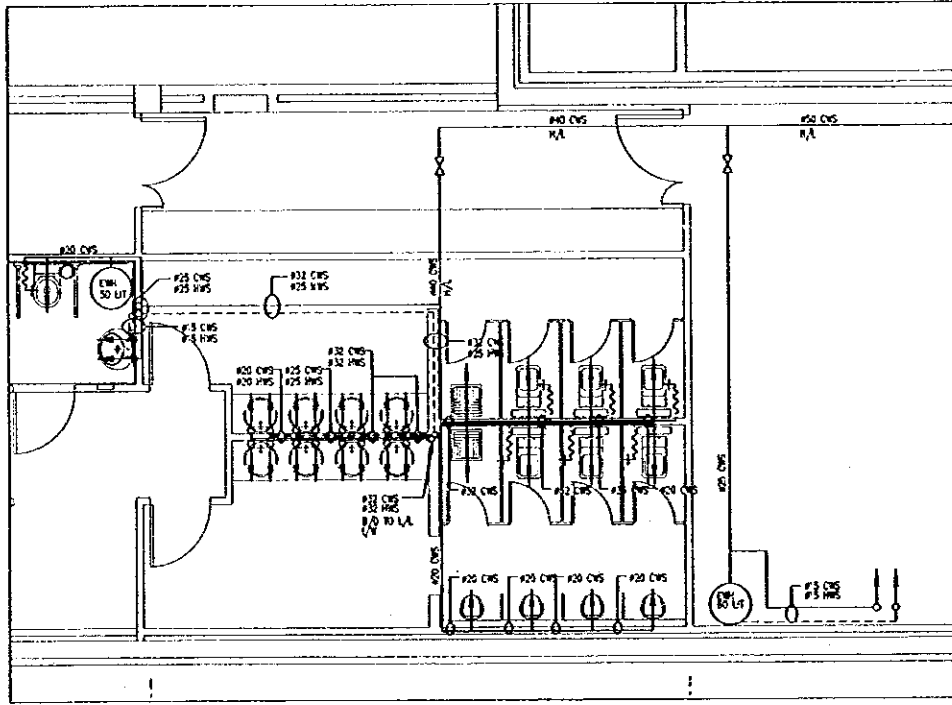
Scale: 1:50 Drawing No: M305



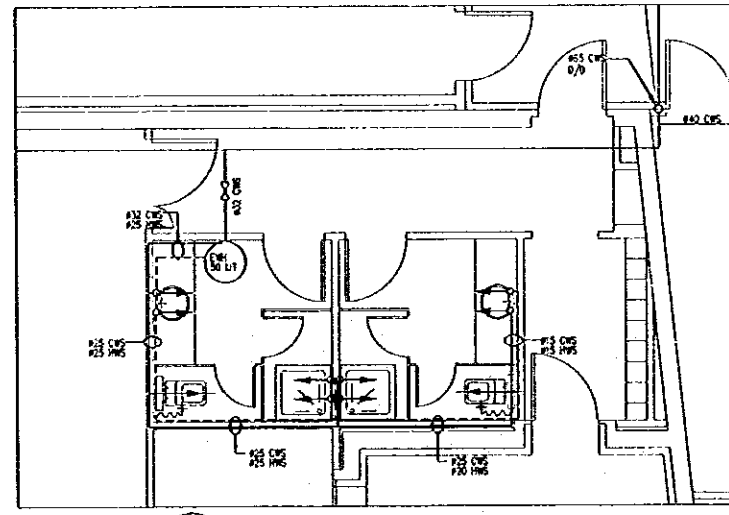
1 FIRST FLOOR PLAN-WATER DETAIL A
M305 SCALE = 1:50



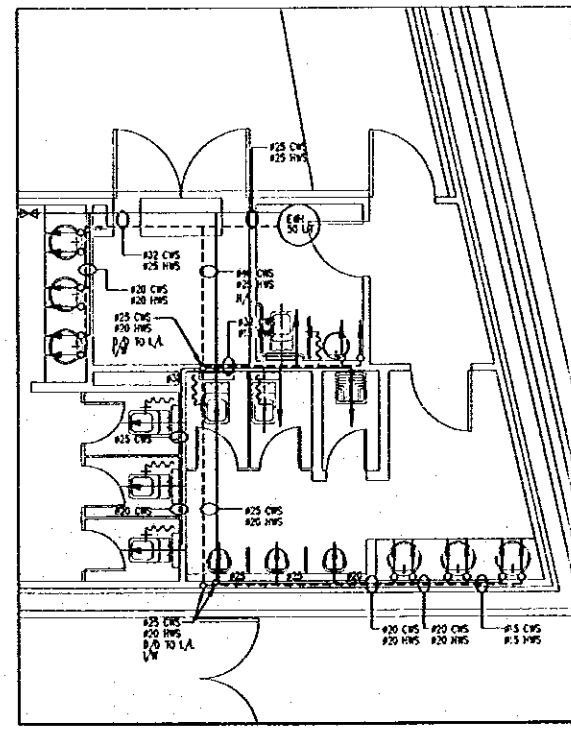
2 FIRST FLOOR PLAN-WATER DETAIL B
M305 SCALE = 1:50



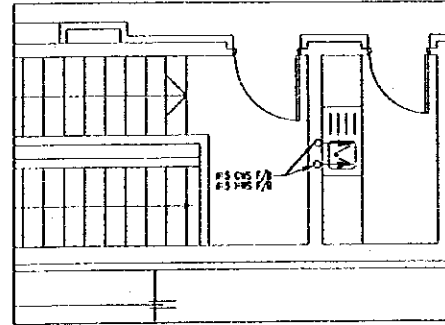
3 GROUNDED FLOOR PLAN-WATER DETAIL C
M305 SCALE = 1:50



4 GROUNDED FLOOR PLAN-WATER DETAIL D
M305 SCALE = 1:50

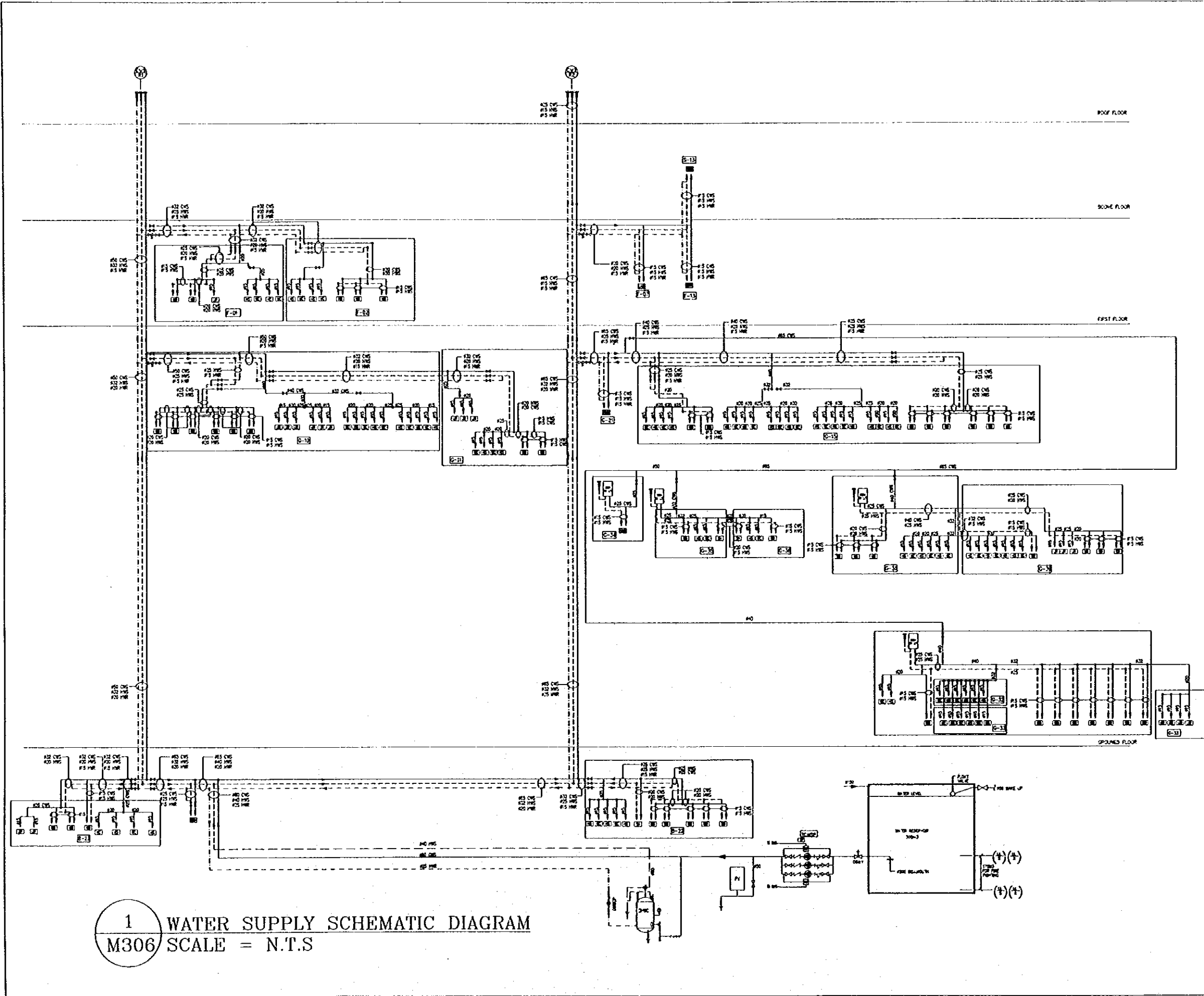


5 GROUNDED FLOOR PLAN-WATER DETAIL E
M305 SCALE = 1:50



6 SECOND FLOOR PLAN-WATER DETAIL A
M305 SCALE = 1:50

2 SANTITARY BLOCKS-WATER SUPPLY LAYOUT 2
M305 SCALE = 1:50



1 WATER SUPPLY SCHEMATIC DIAGRAM
 M306 SCALE = N.T.S

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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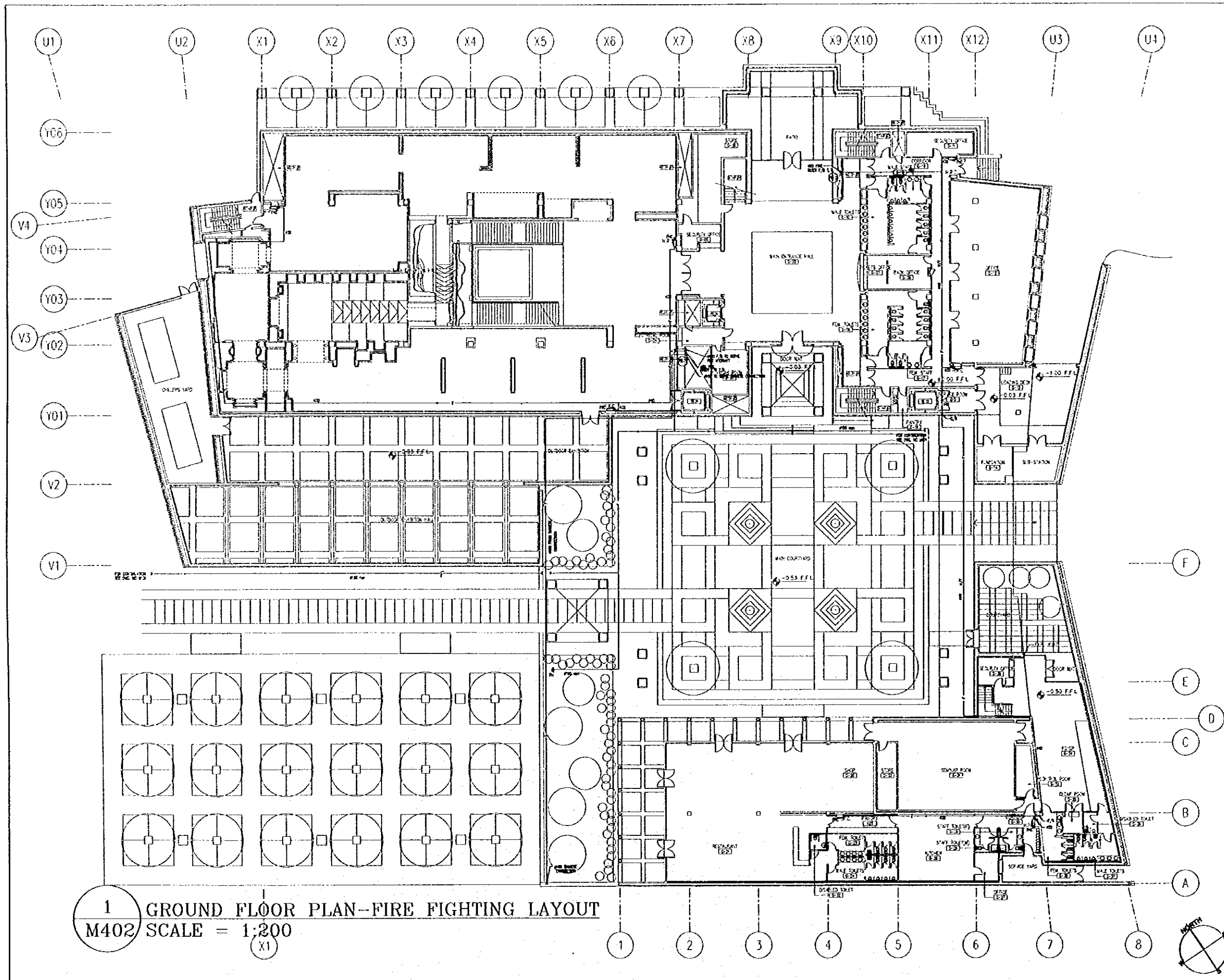
- LEGEND:
- CWS COLD WATER SUPPLY
 - HWS HOT WATER SUPPLY
 - HWR HOT WATER RETURN
 - CWR COLD WATER RETURN
 - ⊗ BALL VALVE
 - ⊗ DOUBLE BALL VALVE
 - ⊗ OR B Y VALVE
 - ⊗ PRESSURE VESSEL
 - AVC ABOVE FLOOR COILING
 - AVT AUTOMATIC AIR VENT
 - AVL ABOVE FLOOR FLOOR LEVEL
 - BLF BELOW FLOOR FLOOR LEVEL
 - BT BATH P.B.
 - DDP DROP DOWN
 - EDH ELECTRIC WATER HEATER
 - FVA FROM ABOVE
 - FVB FROM BELOW
 - HS HAND SPRAY
 - HSL HIGH LEVEL
 - HLV IN WALL
 - LA LOW LEVEL
 - LOU OFFSET UP
 - SW SWITCH
 - SWC SWITCH
 - T/A TO ABOVE
 - T/B TO BELOW
 - UP UPRIAL
 - U/T UNDER TILE
 - U/W UNDER DROPPED
 - WC WATER CLOSET
 - WSH WASH BASIN
 - W/C WATER COOLER
 - WT WATER TANK

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 Japan International Cooperation
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 JICA Study Team:
 Joint Venture of
 Pacific Consultants International and
 Yamashita Seteki Inc.
 Subcontracted Local Consultant:
 Jafar Tukon and Partners
 Architects and Engineers

Drawing Title:
 WATER SUPPLY SCHEMATIC DIAGRAM

Scale: N.T.S. Drawing No.: M306

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1 GROUND FLOOR PLAN-FIRE FIGHTING LAYOUT
M402 SCALE = 1:200

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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of consultants as shown below in accordance with
the agreement between Japan International
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- LEGEND
- ☐ FIRE FIGHTING LINE
 - ☐ FIRE HYDRANT
 - ☐ FIRE PUMP NO. 1
 - ☐ FIRE PUMP NO. 2
 - ☐ FIRE BRUSH
 - ☐ FIRE EXTINGUISHER
 - ☐ FIRE ALARMS
 - ☐ FIRE ESCAPE
 - ☐ FIRE EXTINGUISHER
- NOTE:
* ALL THE FIRE FIGHTING EQUIPMENT IS TO BE PROVIDED

Designed by:
Japan International Cooperation
Agency (JICA)

JICA Study Team:
Joint Venture of
Pacific Consultants International and
Yamato Sekkei Inc.

Subcontracted Local Consultant:
Jafar Tukon and Partners
Architects and Engineers

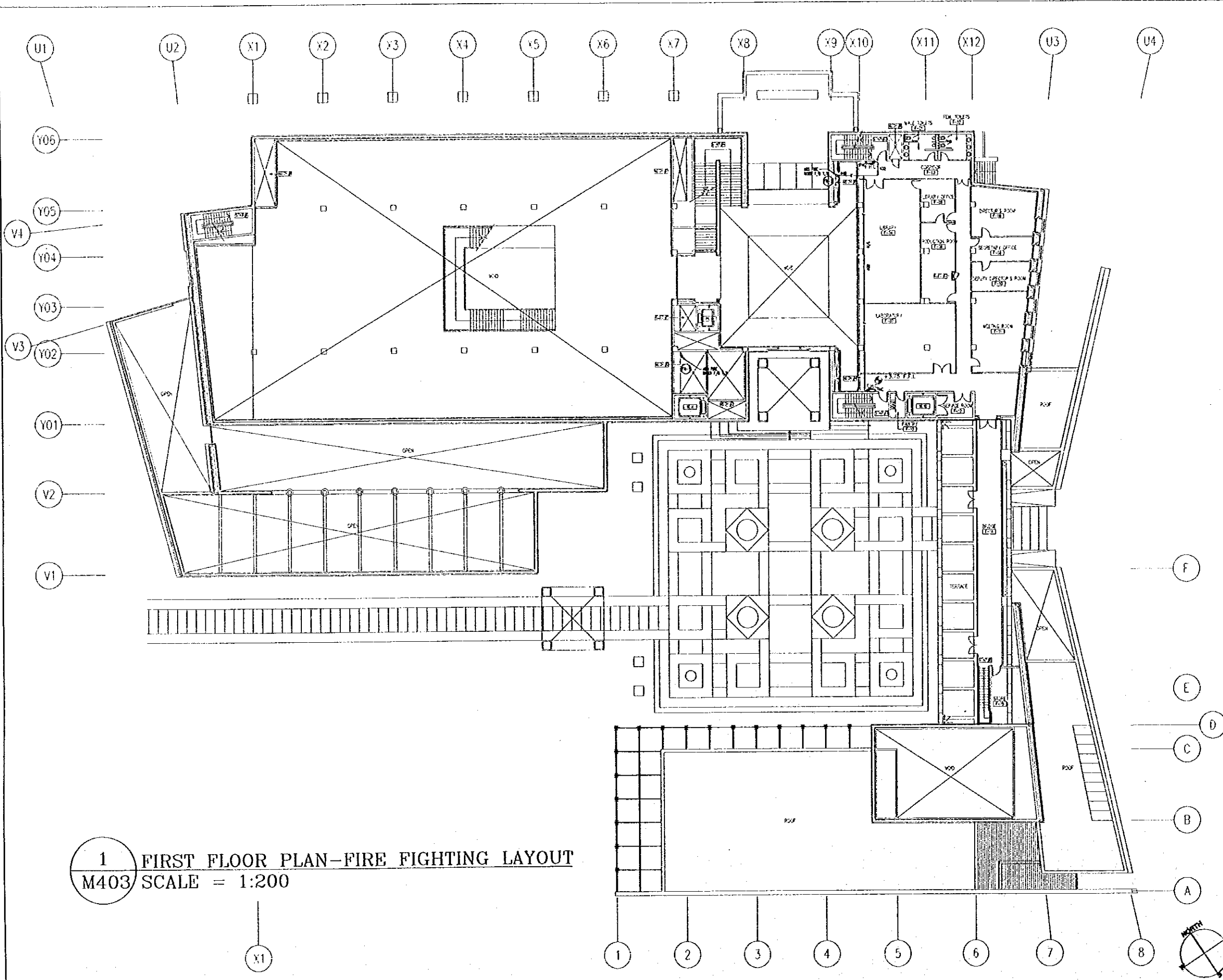
Drawing Title:
GROUND FLOOR PLAN-
FIRE FIGHTING LAYOUT

Scale:
1:200

Drawing No.:
M402



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1 FIRST FLOOR PLAN-FIRE FIGHTING LAYOUT
M403 SCALE = 1:200

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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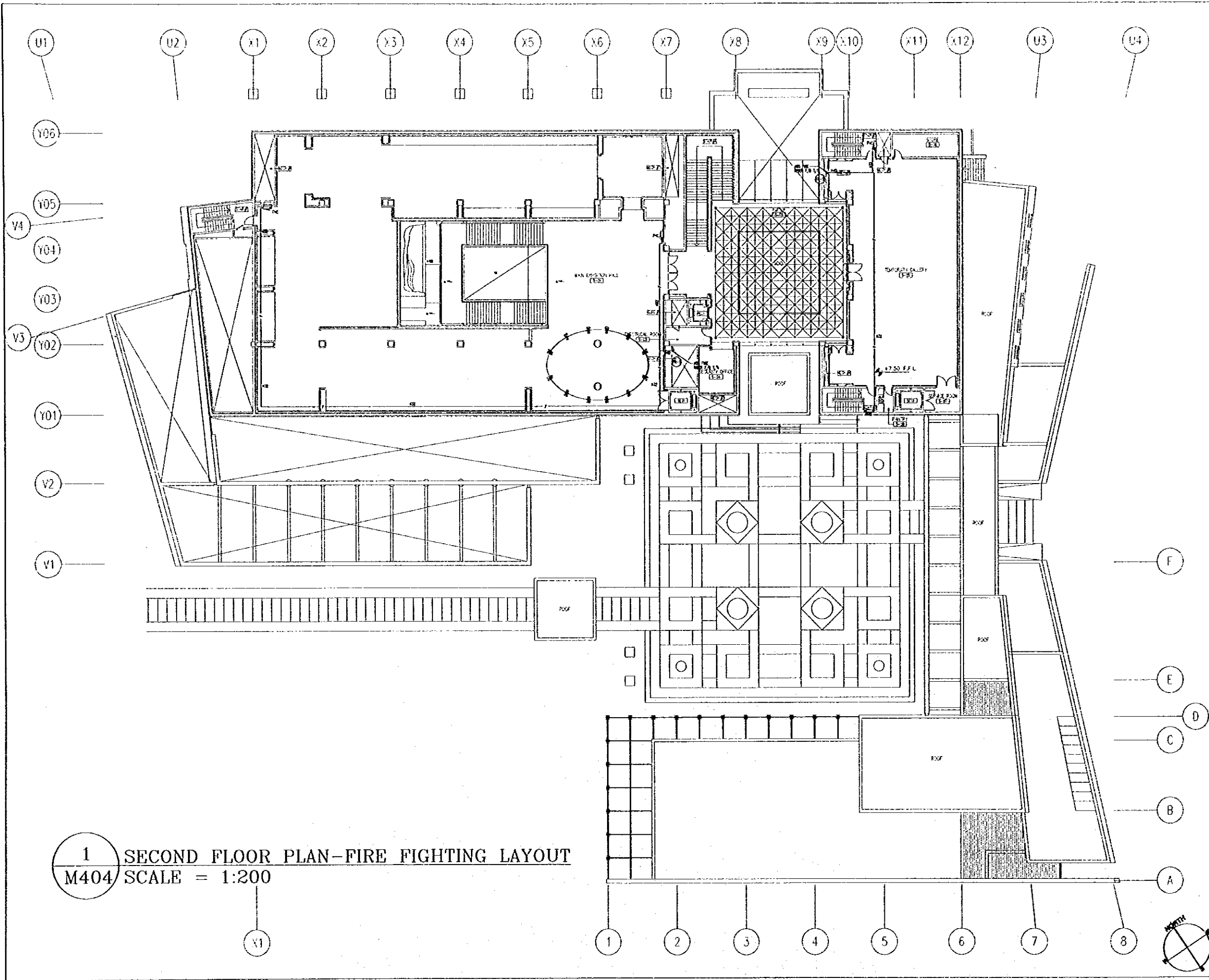
- LEGEND
- FIRE FIGHTING LINE
 - FIRE HOSE CABINET
 - FIRE HOSE NO. 1
 - FIRE HOSE NO. 2
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 - FIRE HOSE NO. 100

Designed by:
Japan International Cooperation
Agency (JICA)
JICA Study Team:
Joint Venture of
Pacific Consultants International and
Yamashita Sekkel Inc.
Subcontracted Local Consultant:
Jafor Tukon and Partners
Architects and Engineers

Drawing Title:
FIRST FLOOR PLAN-
FIRE FIGHTING LAYOUT

Scale:
1:200
Drawing No.:
M403

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1 SECOND FLOOR PLAN-FIRE FIGHTING LAYOUT
M404 SCALE = 1:200

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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LEGEND

- FIRE FIGHTING LAYOUT
- FIRE ESCAPE
- FIRE ESCAPE NO. 1
- FIRE ESCAPE NO. 2
- FIRE ESCAPE NO. 3
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- FIRE ESCAPE NO. 100

Designed by:
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JICA Study Team:
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Subcontracted Local Consultant:
Jafar Tukon and Partners
Architects and Engineers

Drawing Title:
SECOND FLOOR PLAN-
FIRE FIGHTING LAYOUT

Scale: 1:200 Drawing No: M404

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

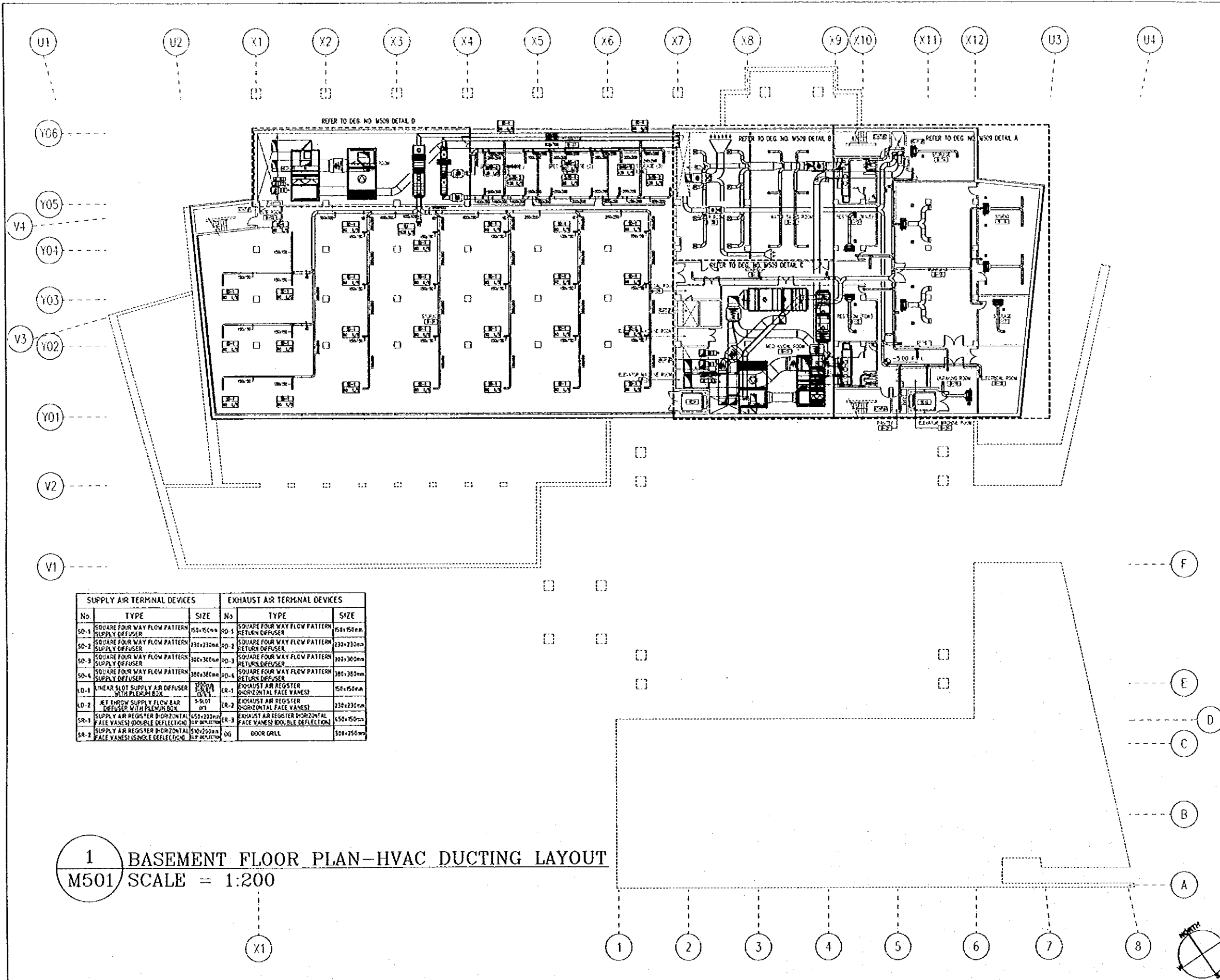
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LEGEND

- SUPPLY OFFSHOOT
- RETURN OFFSHOOT
- EXHAUST REGISTER
- VOLUME DAMPER
- FIRE DAMPER
- FAN COIL UNIT
- SUPPLY OFFSHOOT EXPANSION RELIEF VALVE
- RETURN OFFSHOOT EXPANSION RELIEF VALVE
- FRESH AIR CAPACITY IN R/W
- SOUND ATTENUATOR
- DUCTED FINE EXHAUST FINE
- CARPARK DUCT ROOF
- DUCT REPAIR
- TEMPERATURE CONTROL
- ACCESS PANEL
- DROP SOFFIT
- EXHAUST AIR DUCT
- FRESH AIR FROM ABOVE
- FRESH AIR FROM BELOW
- HIGH LEVEL
- LOW LEVEL
- RETURN AIR DUCT TO ABOVE
- SUPPLY AIR DUCT TO BELOW
- TO ABOVE
- TO BELOW

NOTE:-
1- ALL DUCTS ARE IN UNLESS OTHERWISE STATED
2- DUCTS SHALL BE INSTALLED ABOVE THE FLOOR SHALL BE PROVIDED WITH THE DRAIN, LOCATED AT DOWN FLOOR LEVEL TO THE DRAINAGE SYSTEM
3- TEMPERATURE CONTROL FOR EACH FLOOR SHALL BE INSTALLED



SUPPLY AIR TERMINAL DEVICES			EXHAUST AIR TERMINAL DEVICES		
No	TYPE	SIZE	No	TYPE	SIZE
SD-1	SQUARE FOUR WAY FLOW PATTERN SUPPLY DEFUSER	500x500mm	ED-1	SQUARE FOUR WAY FLOW PATTERN RETURN DEFUSER	500x500mm
SD-2	SQUARE FOUR WAY FLOW PATTERN SUPPLY DEFUSER	230x230mm	ED-2	SQUARE FOUR WAY FLOW PATTERN RETURN DEFUSER	230x230mm
SD-3	SQUARE FOUR WAY FLOW PATTERN SUPPLY DEFUSER	300x300mm	ED-3	SQUARE FOUR WAY FLOW PATTERN RETURN DEFUSER	300x300mm
SD-4	SQUARE FOUR WAY FLOW PATTERN SUPPLY DEFUSER	380x380mm	ED-4	SQUARE FOUR WAY FLOW PATTERN RETURN DEFUSER	380x380mm
LD-1	LINEAR SLOT SUPPLY AIR DEFUSER WITH PLUMBING BOX	1500x1500mm	ER-1	EXHAUST AIR REGISTER HORIZONTAL FACE VANES	150x150mm
LD-2	JET THROW SUPPLY FLOW BAR DEFUSER WITH PLUMBING BOX	1-SLOT 1075	ER-2	EXHAUST AIR REGISTER HORIZONTAL FACE VANES	230x230mm
SR-1	SUPPLY AIR REGISTER HORIZONTAL FACE VANES DOUBLE DEFLECTION	450x200mm	ER-3	EXHAUST AIR REGISTER HORIZONTAL FACE VANES DOUBLE DEFLECTION	450x150mm
SR-2	SUPPLY AIR REGISTER HORIZONTAL FACE VANES SINGLE DEFLECTION	450x200mm	OG	DOOR GRILL	550x250mm

1 BASEMENT FLOOR PLAN-HVAC DUCTING LAYOUT
M501 SCALE = 1:200

Designed by:
Japan International Cooperation Agency (JICA)
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:
BASEMENT FLOOR PLAN-HVAC DUCTING LAYOUT
Scale: 1:200
Drawing No.: M501

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

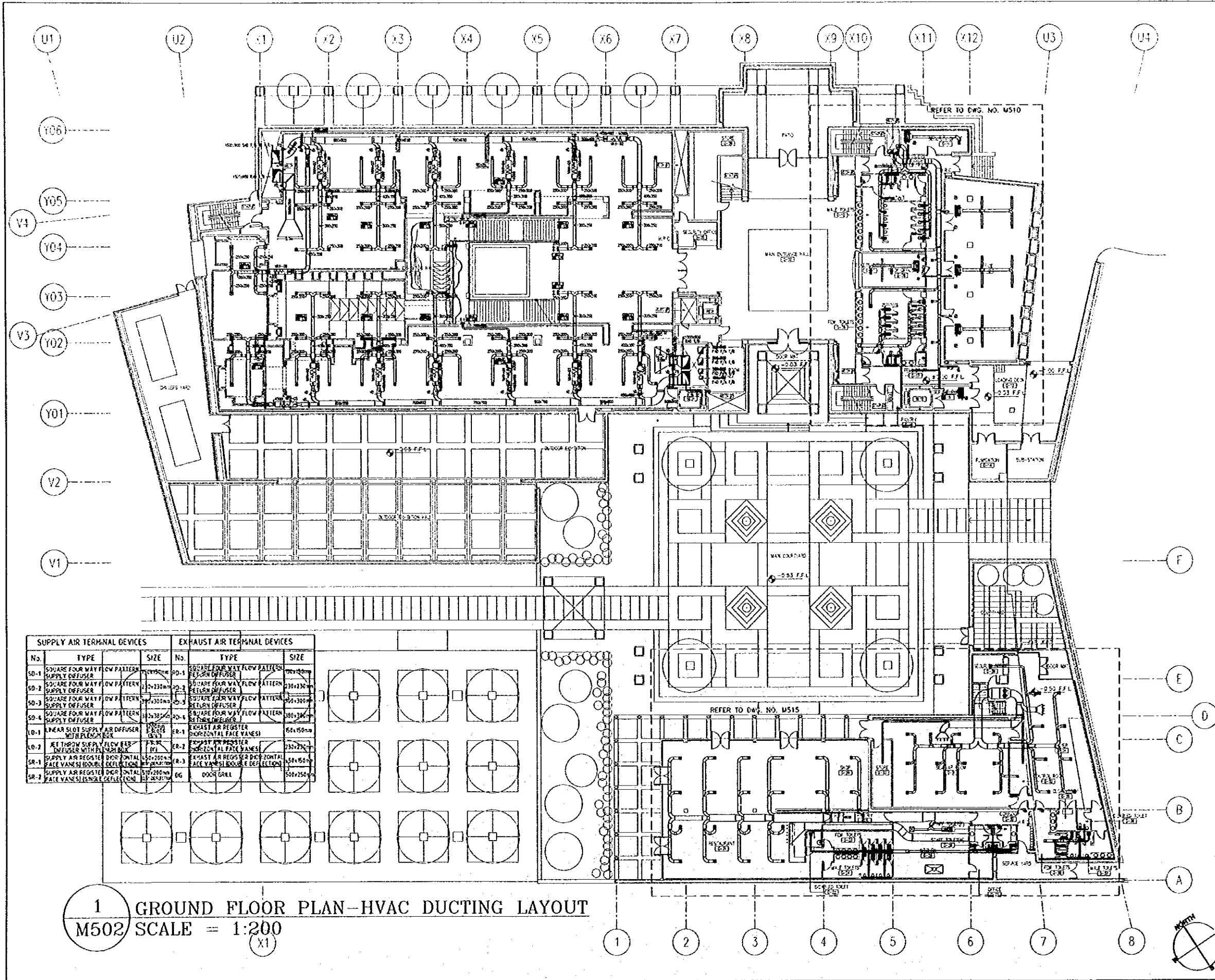
Sub-Project:
NATIONAL MUSEUM

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LEGEND

- SUPPLY DIFFUSER
- RETURN DIFFUSER
- EXHAUST REGISTER
- VOLUME DAMPER
- FINE DAMPER
- FAN COIL UNIT
- FRESH AIR CAPACITY IN L/S
- EXHAUST ATTENUATOR
- DUCTED LINE
- EXHAUST FAN
- CIRCULAR DUCT RISER
- DUCT RISER
- TEMPERATURE CONTROL
- ACCESS PANEL
- SHUT DOWN
- EXHAUST AIR DUCT
- FRESH AIR
- FRESH AIR
- FRESH AIR
- HIGH LEVEL
- LOW LEVEL
- RETURN AIR DUCT
- SUPPLY AIR DUCT
- TO ABOVE
- TO BELOW

NOTE:-
1- ALL THE MECH. ROOMS SHALL BE PROVIDED WITH THE NEAREST FIRE EXTINGUISHER.
2- ALL THE MECH. ROOMS SHALL BE PROVIDED WITH THE NEAREST FIRE EXTINGUISHER.
3- EXHAUST AIR SHALL BE DISCHARGED TO OUTSIDE.



SUPPLY AIR TERMINAL DEVICES				EXHAUST AIR TERMINAL DEVICES			
No.	TYPE	SIZE		No.	TYPE	SIZE	
SD-1	SQUARE FOUR WAY FLOW PATTERN SUPPLY DIFFUSER	210x210mm	□	ER-1	SQUARE FOUR WAY FLOW PATTERN RETURN DIFFUSER	210x210mm	□
SD-2	SQUARE FOUR WAY FLOW PATTERN SUPPLY DIFFUSER	210x230mm	□	ER-2	SQUARE FOUR WAY FLOW PATTERN RETURN DIFFUSER	230x230mm	□
SD-3	SQUARE FOUR WAY FLOW PATTERN SUPPLY DIFFUSER	210x300mm	□	ER-3	SQUARE FOUR WAY FLOW PATTERN RETURN DIFFUSER	300x300mm	□
SD-4	SQUARE FOUR WAY FLOW PATTERN SUPPLY DIFFUSER	210x380mm	□	ER-4	SQUARE FOUR WAY FLOW PATTERN RETURN DIFFUSER	380x380mm	□
LD-1	LINEAR SLOT SUPPLY AIR DIFFUSER WITH FLOOR GRILL	1500x1500mm	□	ER-5	EXHAUST AIR REGISTER HORIZONTAL FACE VANES	650x1500mm	□
LD-2	RE-THROW SUPPLY FLOW AIR DIFFUSER WITH FLOOR GRILL	1500x1500mm	□	ER-6	POPUP AIR REGISTER HORIZONTAL FACE VANES	330x220mm	□
SR-1	SUPPLY AIR REGISTER HORIZONTAL FACE VANES DOUBLE DECK DEFLECTION	1500x2000mm	□	ER-7	EXHAUST AIR REGISTER HORIZONTAL FACE VANES DOUBLE DECK DEFLECTION	1500x2000mm	□
SR-2	SUPPLY AIR REGISTER HORIZONTAL FACE VANES SINGLE DECK DEFLECTION	1500x2000mm	□	OG	DOOR GRILL	500x250mm	□

1 GROUND FLOOR PLAN-HVAC DUCTING LAYOUT
M502 SCALE = 1:200

Designed by:
Japan International Cooperation Agency (JICA)
JICA Study Team:
Joint Venture of Pacific Consultants International and Tomosita Sekkel Inc.
Subcontracted Local Consultant:
Jafar Tukon and Partners Architects and Engineers

Drawing Title:
GROUND FLOOR PLAN-HVAC DUCTING LAYOUT
Scale: 1:200
Drawing No: M502

Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

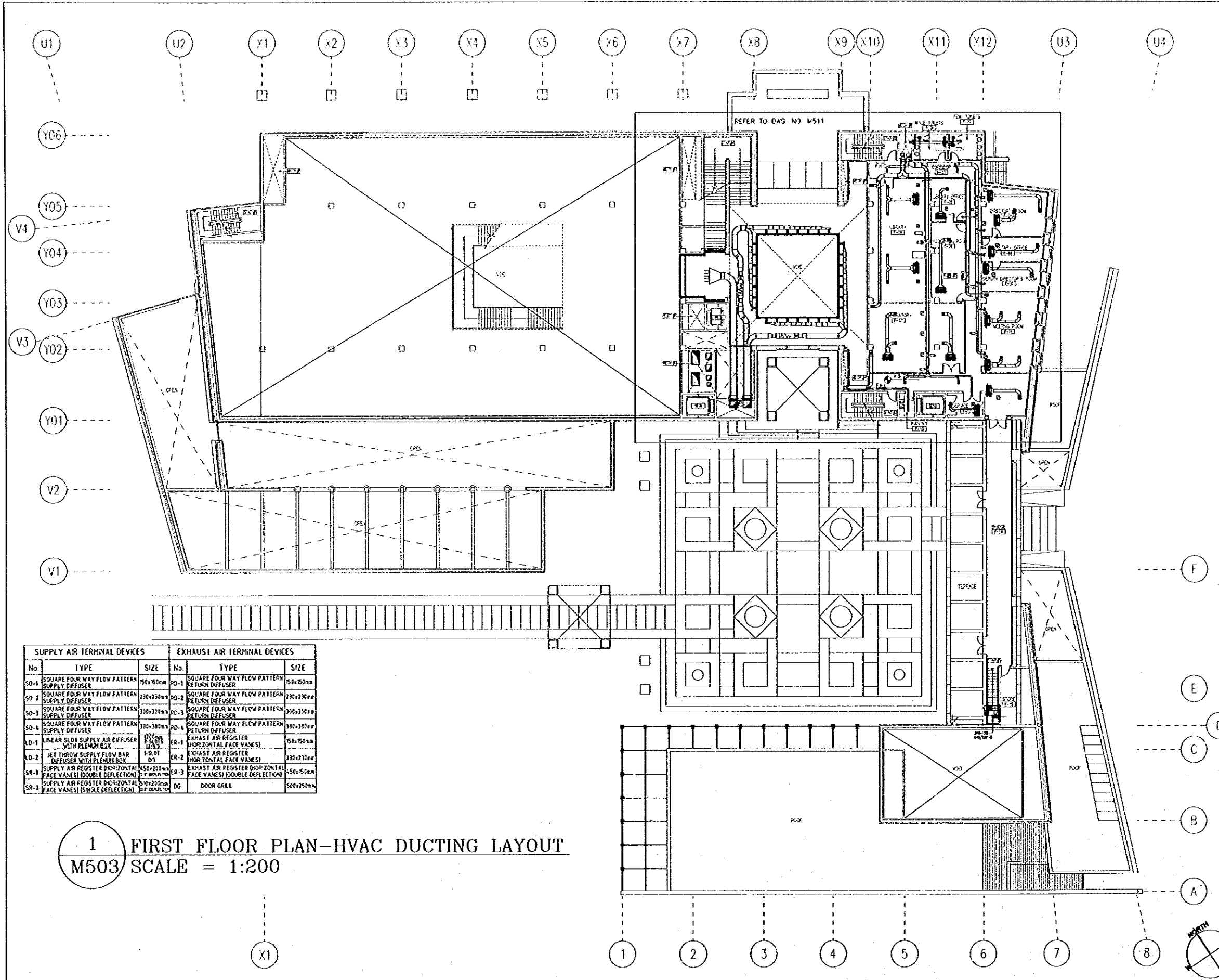
The Government of
The Hashemite Kingdom of Jordan
The Ministry of Tourism and Antiquities
The Ministry of Planning

Sub Project:
NATIONAL MUSEUM

Note:
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- LEGEND**
- SD SUPPLY DIFFUSER
 - RD RETURN DIFFUSER
 - ER EXHAUST REGISTER
 - VV VOLUME DAMPER
 - FD FIRE DAMPER
 - FC FAN COIL UNIT
 - SC SUPPLY AIR CONTROL
 - RC RETURN AIR CONTROL
 - FA FRESH AIR CAPACITY IN L/S
 - SA SOUND ATTENUATOR
 - SCB SOUND Baffle
 - CDR CARTRIDGE DUCT RISER
 - DR DUCT RISER
 - TC TEMPERATURE CONTROL
 - AP ACCESS PANEL
 - D/D DUCT DOWN
 - D/U DUCT UP
 - F/A FRESH AIR FROM ABOVE
 - F/B FRESH AIR FROM BELOW
 - L/A LOW LEVEL
 - H/A HIGH LEVEL
 - R/A RETURN AIR DUCT TO ROOM
 - S/A SUPPLY AIR DUCT TO ROOM
 - T/A TO ABOVE
 - B/A TO BELOW

NOTE:-
1- ALL AIR ARE IN LITER (CUBIC METERS)
2- SPECIAL NOTE: ROOMS ARE NOT THE SAME SIZE
3- TEMPERATURE REGISTER FOR EACH ROOM IS INCLUDED



SUPPLY AIR TERMINAL DEVICES			EXHAUST AIR TERMINAL DEVICES		
No.	TYPE	SIZE	No.	TYPE	SIZE
SD-1	SQUARE FOUR WAY FLOW PATTERN SUPPLY DIFFUSER	150x150mm	RD-1	SQUARE FOUR WAY FLOW PATTERN RETURN DIFFUSER	150x150mm
SD-2	SQUARE FOUR WAY FLOW PATTERN SUPPLY DIFFUSER	230x230mm	RD-2	SQUARE FOUR WAY FLOW PATTERN RETURN DIFFUSER	230x230mm
SD-3	SQUARE FOUR WAY FLOW PATTERN SUPPLY DIFFUSER	300x300mm	RD-3	SQUARE FOUR WAY FLOW PATTERN RETURN DIFFUSER	300x300mm
SD-4	SQUARE FOUR WAY FLOW PATTERN SUPPLY DIFFUSER	380x380mm	RD-4	SQUARE FOUR WAY FLOW PATTERN RETURN DIFFUSER	380x380mm
LD-1	LINEAR SLOT SUPPLY AIR DIFFUSER WITH PLENUM BOX	1500x1500mm	ER-1	EXHAUST AIR REGISTER (HORIZONTAL FACE VANES)	150x150mm
LD-2	JET THROW SUPPLY AIR BAR DIFFUSER WITH PLENUM BOX	1500x1500mm	ER-2	EXHAUST AIR REGISTER (HORIZONTAL FACE VANES)	230x230mm
SR-1	SUPPLY AIR REGISTER (HORIZONTAL FACE VANES) (DOUBLE DEFLECTION)	150x150mm	ER-3	EXHAUST AIR REGISTER (HORIZONTAL FACE VANES) (DOUBLE DEFLECTION)	150x150mm
SR-2	SUPPLY AIR REGISTER (HORIZONTAL FACE VANES) (SINGLE DEFLECTION)	150x150mm	DG	DOOR GRILL	500x250mm

1 FIRST FLOOR PLAN-HVAC DUCTING LAYOUT
M503 SCALE = 1:200

Designed by:
Japan International Cooperation Agency (JICA)
JICA Study Team:
Joint Venture of
Pacific Consultants International and
Yamasita Sekkel Inc.
Subcontracted Local Consultant:
Jafar Tukán and Partners
Architects and Engineers

Drawing title:
FIRST FLOOR PLAN-HVAC DUCTING LAYOUT
Scale: 1:200
Drawing No.: M503

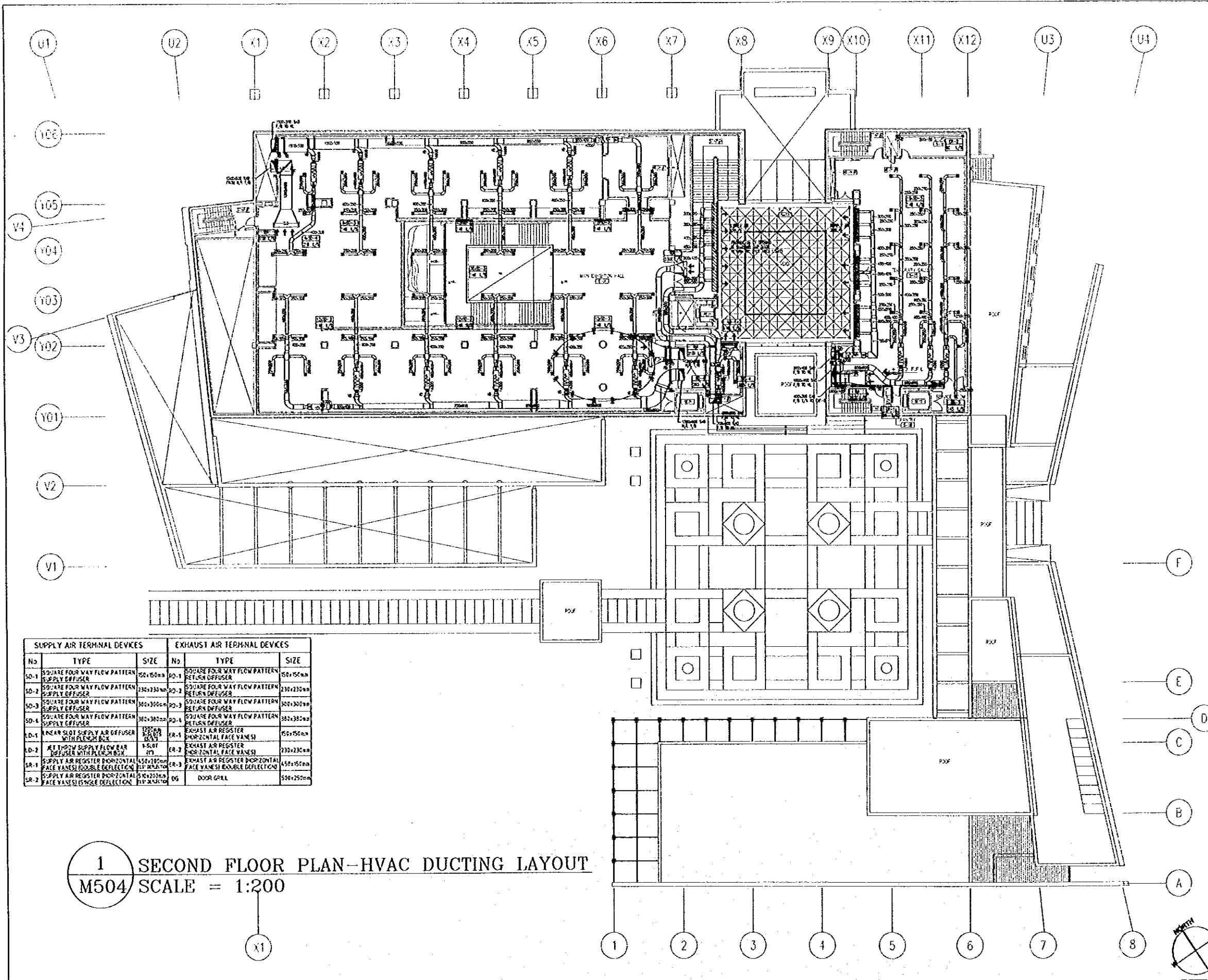
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Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

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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SUPPLY AIR TERMINAL DEVICES			EXHAUST AIR TERMINAL DEVICES		
No	TYPE	SIZE	No	TYPE	SIZE
SD-1	SQUARE FOUR WAY FLOW PATTERN SUPPLY DIFFUSER	500x500mm	PD-1	SQUARE FOUR WAY FLOW PATTERN RETURN DIFFUSER	500x500mm
SD-2	SQUARE FOUR WAY FLOW PATTERN SUPPLY DIFFUSER	230x230mm	PD-2	SQUARE FOUR WAY FLOW PATTERN RETURN DIFFUSER	230x230mm
SD-3	SQUARE FOUR WAY FLOW PATTERN SUPPLY DIFFUSER	300x300mm	PD-3	SQUARE FOUR WAY FLOW PATTERN RETURN DIFFUSER	300x300mm
SD-4	SQUARE FOUR WAY FLOW PATTERN SUPPLY DIFFUSER	380x380mm	PD-4	SQUARE FOUR WAY FLOW PATTERN RETURN DIFFUSER	380x380mm
ED-1	LINEAR SLOT SUPPLY AIR DIFFUSER WITH FLEXIBLE BLS	1200x1200mm	ER-1	EXHAUST AIR REGISTER HORIZONTAL FACE VANES	750x750mm
ED-2	JET THROW SUPPLY FLOW BAR DIFFUSER WITH FLEXIBLE BLS	1500x1500mm	ER-2	EXHAUST AIR REGISTER HORIZONTAL FACE VANES	230x230mm
SR-1	SUPPLY AIR REGISTER HORIZONTAL FACE VANES (DOUBLE DEFLECTION)	1500x1500mm	ER-3	EXHAUST AIR REGISTER HORIZONTAL FACE VANES (DOUBLE DEFLECTION)	1500x1500mm
SR-2	SUPPLY AIR REGISTER HORIZONTAL FACE VANES (SINGLE DEFLECTION)	1500x1500mm	DG	DOOR GRILL	500x250mm

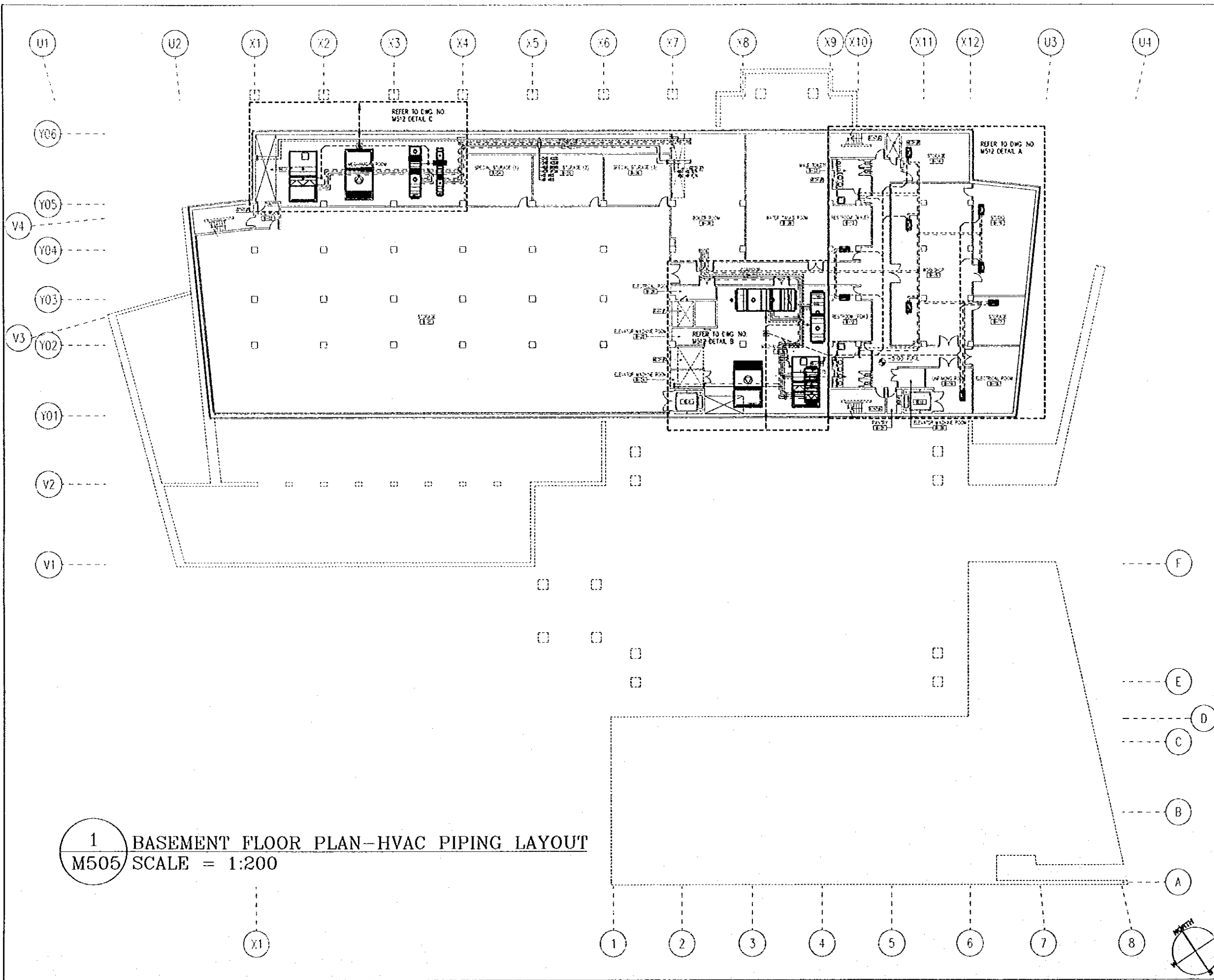
1 SECOND FLOOR PLAN-HVAC DUCTING LAYOUT
M504 SCALE = 1:200

- LEGEND**
- SD SUPPLY DIFFUSER
 - PD RETURN DIFFUSER
 - ER EXHAUST REGISTER
 - VOLUME DAMPER
 - FIRE DAMPER
 - FAN COIL UNIT
 - FRESH AIR CAPACITY IN UNIT
 - SOUND ATTENUATOR
 - DUCTED FLEX EXHAUST FAN
 - DUCT FAN
 - DUCT FAN MOTOR
 - TYPEDUCTILE CONNECTION
 - ACCESS PANEL
 - DROP DOWN EXHAUST AIR DUCT
 - FRESH AIR
 - FRESH RETURN
 - HIGH LEVEL
 - LOW LEVEL
 - RETURN AIR DUCT
 - SUPPLY AIR DUCT
 - ABOVE
 - BELOW

NOTE:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. REFER TO THE GENERAL NOTES FOR THE PROJECT FOR THE LATEST REVISIONS.
3. REFER TO THE GENERAL NOTES FOR THE PROJECT FOR THE LATEST REVISIONS.

Designed by:
Japan International Cooperation Agency (JICA)
JICA Study Team:
Joint Venture of Pacific Consultants International and Yamashita Seki Inc.
Subcontracted Local Consultant:
Jafar Tukan and Partners Architects and Engineers

Drawing Title:
SECOND FLOOR PLAN-HVAC DUCTING LAYOUT
Scale: 1:200
Drawing No.: M504



1 BASEMENT FLOOR PLAN-HVAC PIPING LAYOUT
M505 SCALE = 1:200

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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LEGEND

- DIS --- CHILLED WATER SUPPLY
- DR --- CHILLED WATER RETURN
- HCS --- HEATING/CHILLED WATER SUPPLY
- HCR --- HEATING/CHILLED WATER RETURN
- HS --- HEATING SUPPLY
- HR --- HEATING RETURN
- C --- CONDENSATE PIPE
- FAN COIL UNIT
- D/D DRIP DOWN
- F/A FROM ABOVE
- F/B FROM BELOW
- T/A TO ABOVE
- T/B TO BELOW

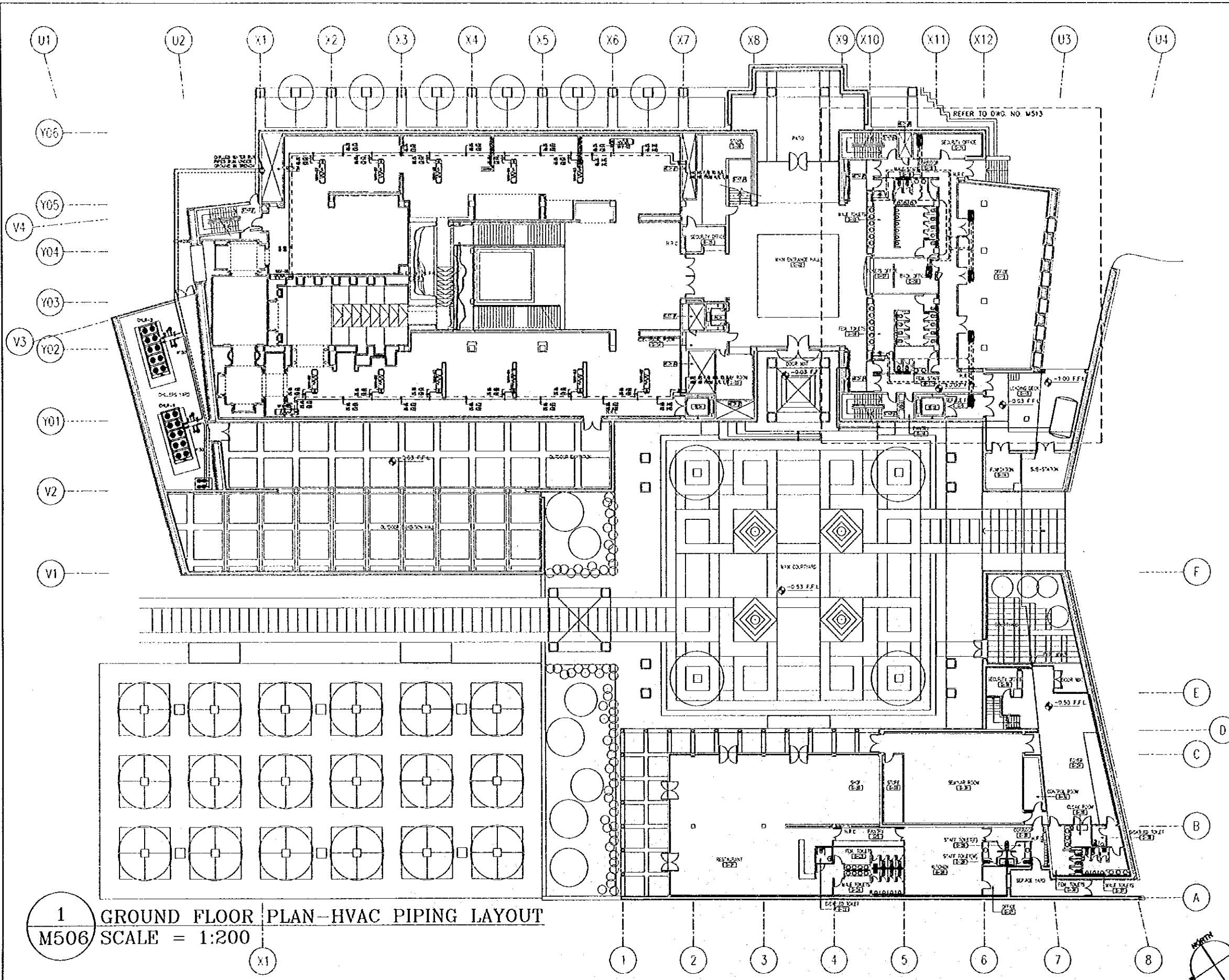
- NOTES
- 1- ALL DIM. ARE IN MM UNLESS OTHERWISE STATED
 - 2- ALL CONDENSATE PIPES TO BE SLOPED 1%

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Architects and Engineers

Drawing Title:
BASEMENT FLOOR PLAN-
HVAC PIPING LAYOUT

Scale: 1:200 Drawing No.: M505

G:\J0023-JTP\DWG\Mech\NEW\J0023-M506.dwg Sat Jun 17 17:20:08 2000



1 GROUND FLOOR PLAN-HVAC PIPING LAYOUT
 M506 SCALE = 1:200

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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- LEGEND**
- DS CHILLED WATER SUPPLY
 - DR CHILLED WATER RETURN
 - HS HEATING/CHILLED WATER SUPPLY
 - HR HEATING/CHILLED WATER RETURN
 - HS HEATING SUPPLY
 - HR HEATING RETURN
 - C CONDENSATE PIPE
- FAN COIL UNIT
 DD DROP DOWN
 FA FROM ABOVE
 FB FROM BELOW
 TA TO ABOVE
 TB TO BELOW

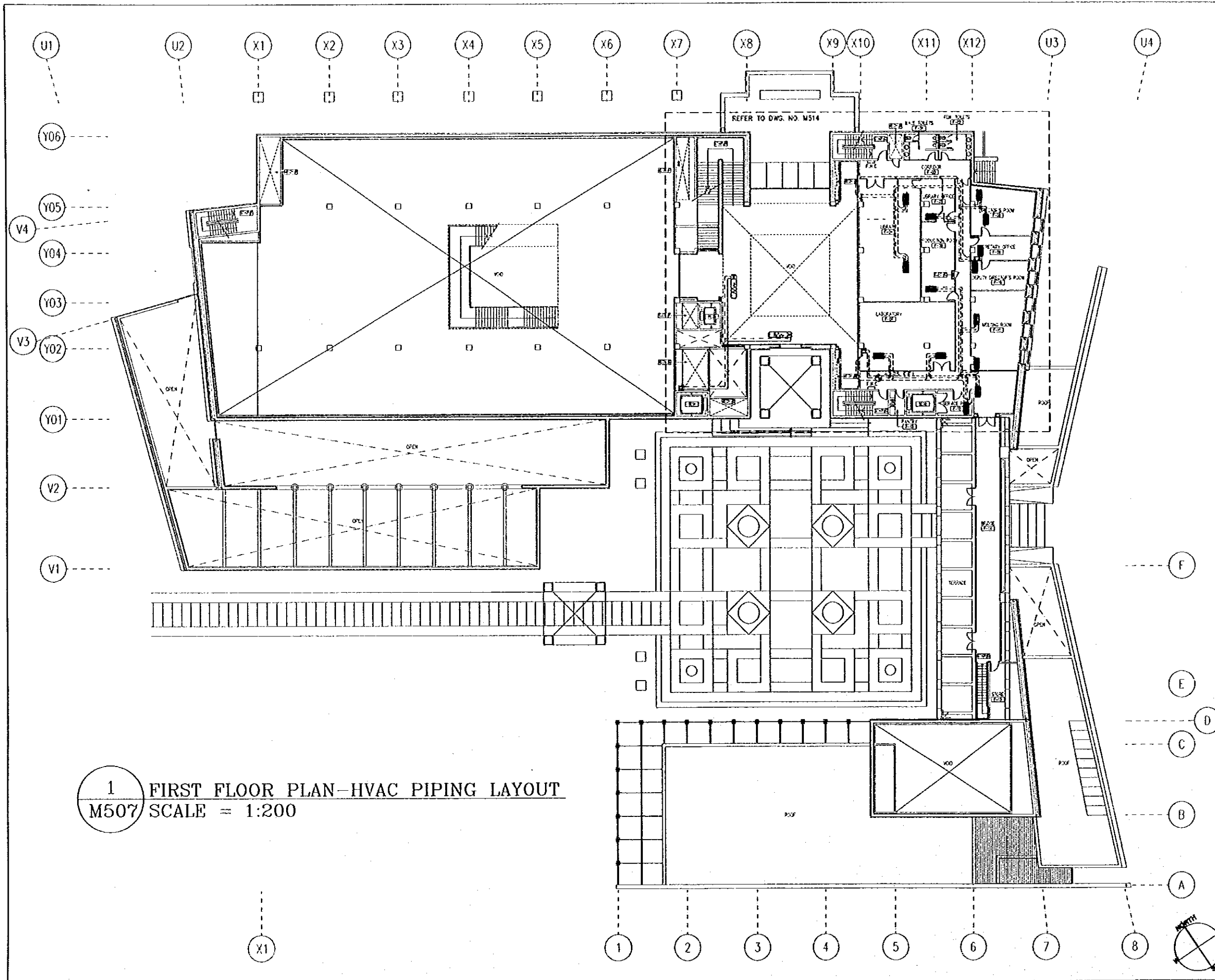
- NOTES**
- 1- ALL DR. ARE IN MM UNLESS OTHERWISE STATED
 - 2- ALL CONDENSATE PIPES TO BE SLOPED 1%

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 Yamashita Sekkei Inc.
 Subcontracted Local Consultant:
 Jafar Tukon and Partners
 Architects and Engineers

Drawing Title:
 GROUND FLOOR PLAN-
 HVAC PIPING LAYOUT

Scale: 1:200 Drawing No: M506

G:\J0023-JTP\DWG\Mech\NEW\J0023-M507.dwg Sat Jun 17 17:31:19 2000



1 FIRST FLOOR PLAN-HVAC PIPING LAYOUT
M507 SCALE = 1:200

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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LEGEND

—○S—	CHILLED WATER SUPPLY
—○R—	CHILLED WATER RETURN
—○HS—	HEATING/CHILLED WATER SUPPLY
—○HR—	HEATING/CHILLED WATER RETURN
—○S—	HEATING SUPPLY
—○R—	HEATING RETURN
—○C—	CONDENSATE PIPE
	FAN COIL UNIT
	DROP DOWN
	FROM ABOVE
	FROM BELOW
	TO ABOVE
	TO BELOW

NOTES
1- ALL DIM. ARE IN MM UNLESS OTHERWISE STATED
2- ALL CONDENSATE PIPES TO BE SLOPED 1%

Designed by:
Japan International Cooperation
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JICA Study Team:
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Subcontracted Local Consultant:
Jafar Tukon and Partners
Architects and Engineers

Drawing Title:
FIRST FLOOR PLAN-
HVAC PIPING LAYOUT

Scale:
1:200
Drawing No.:
M507