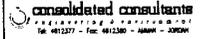
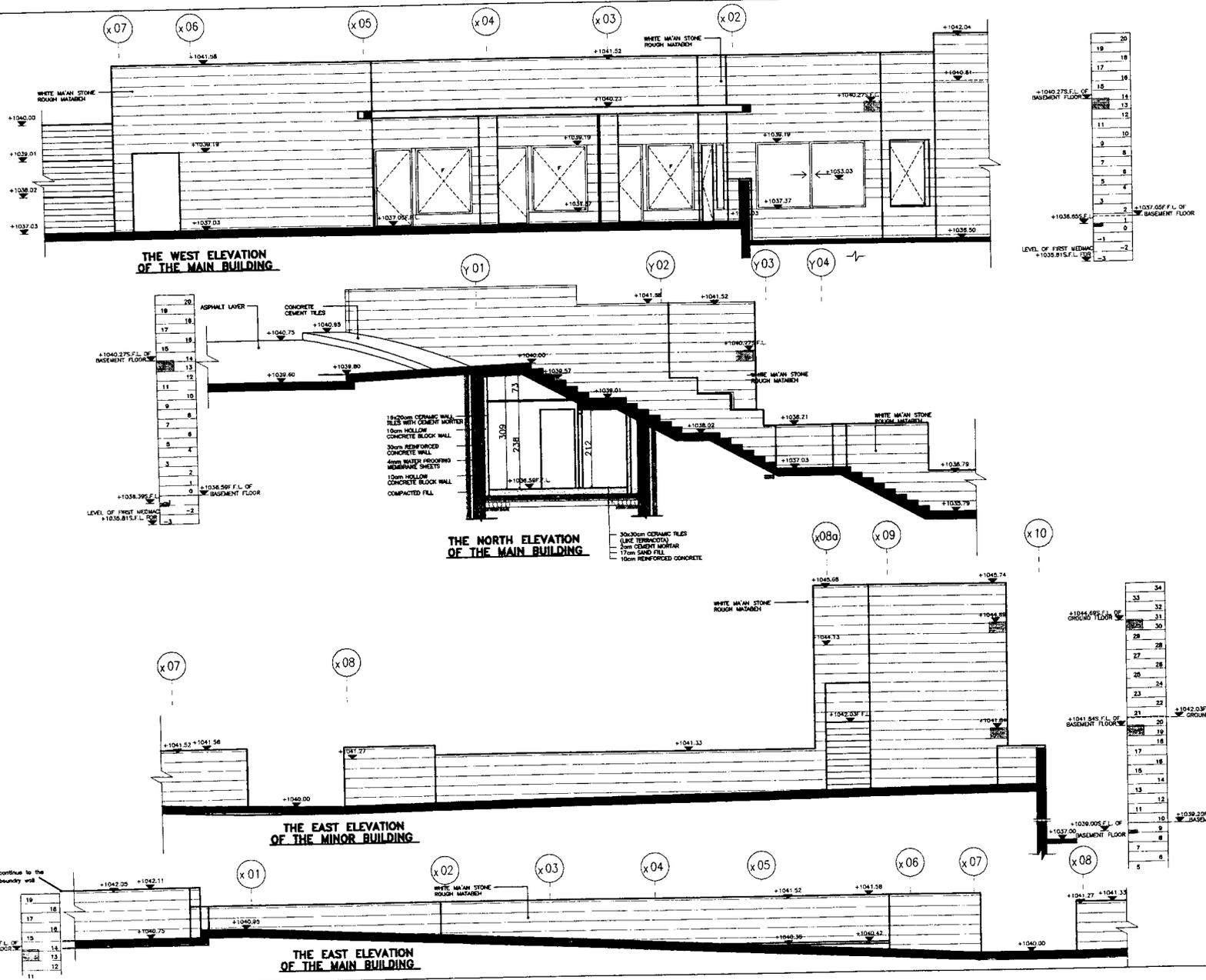


| | | |
|--|-------|---------------------------------|
| Project: Tourism Sector Development Project in the Hashemite Kingdom of Jordan | | |
| Executing Agency The Ministry of Tourism and Antiquities The Ministry of Planning | | |
| SUB-PROJECT: Karak Tourism Development Project Upper Observation Point | | |
| 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. | | |
|  | | |
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|  | | |
| Date: | June | 2000 |
| GROUND FLOOR PLAN Drawing Title | | |
| Scale: | 1:100 | Drawing No: UOP.A-008 |



Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Upper Observation Point

Note:
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NOTE:
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- STONE CLADDING FOR WALLS AND RETAINING WALLS IS OF MA'AN STONE (5cm) WITH CEMENT MORTAR (ROUGH MATABEH).
- VENTILATION OPENING IN FACADES TO BE COORDINATED WITH MECHANICAL ENGINEER.

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Subcontracted Local Consultant:

consolidated consultants
ENGINEERING & ARCHITECTURE
Tel: 9622571 - Fax: 9622288 - AMMAN - JORDAN

Date: June 2000

ELEVATIONS

Drawing Title:

Scale: 1:50 Drawing No.: UOP-A-010

Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Upper Observation Point

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- STONE CLADDING FOR WALLS AND RETAINING WALLS IS OF MA'AN STONE (5cm) WITH CEMENT MORTAR. (ROUGH MATAHDI).

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JICA Study Team:
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Subcontracted Local Consultant:

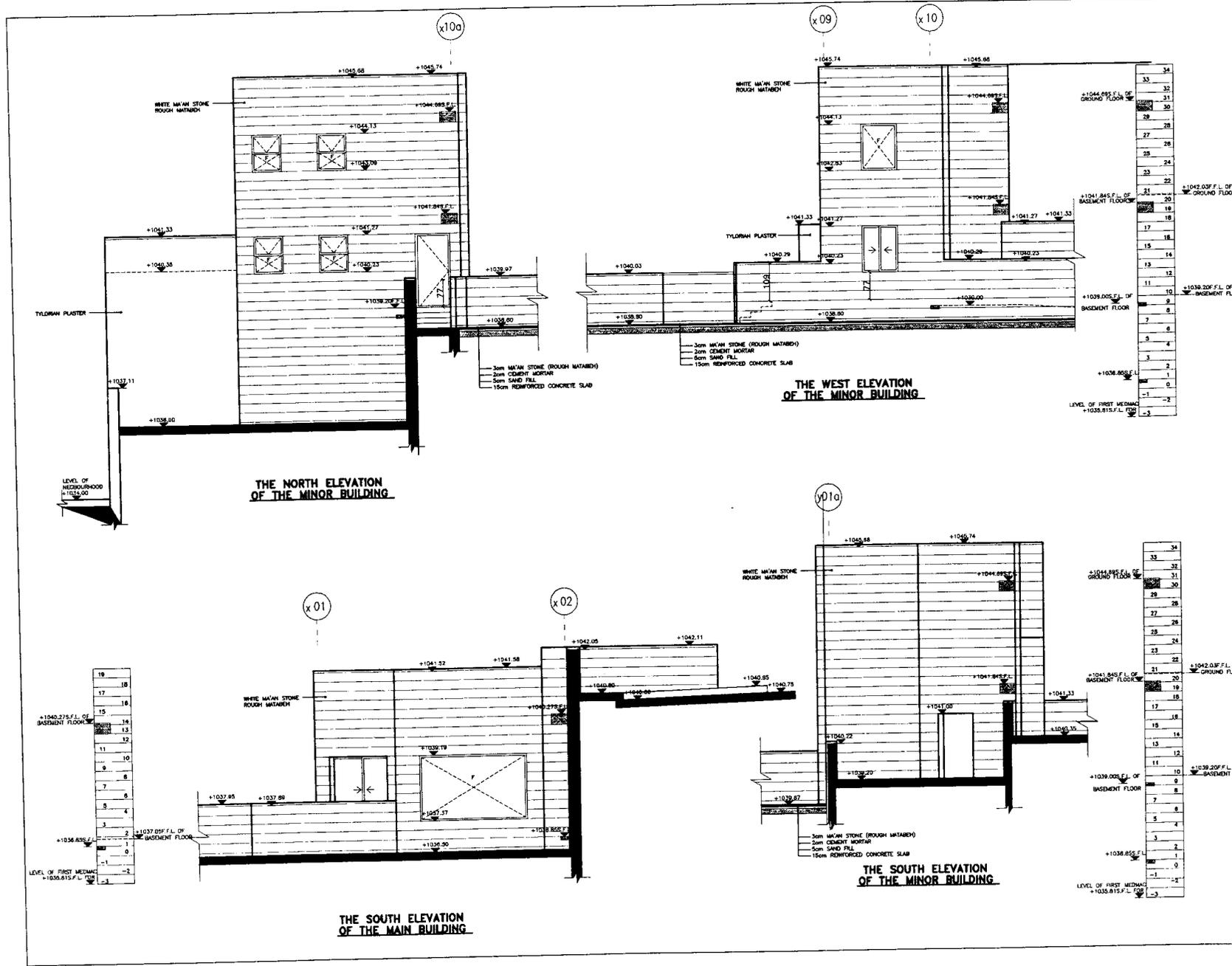
consolidated consultants
PACIFIC CONSULTANTS INTERNATIONAL
YAMASAITSEI SEKKEI INC.
Tel: 912277 - Fax: 912280 - AMM - JORDAN

Date: June 2000

ELEVATIONS

Drawing Title:

Scale: 1:50 Drawing No.: UOP.A-011



Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Upper Observation Point

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LEGEND:

- AVY 02 AIR ASSISTANCE VALVE
- CO CLEAN OUT
- FD FLOOR DRAIN
- MM MARBLE
- UPVC UNPLASTICIZED POLYVINYL CHLORIDE
- CS CROSSLINKED POLYETHYLENE
- VT UNDER TILE
- UP UPSTAIR
- OP DOWN PIPE
- TA TO ABOVE
- TD FROM BELOW
- TS TO BELOW
- MS MESH REINFORCEMENT BOX
- EMV ELECTRIC HOT WATER HEATER CAPACITY 50 LTR
- EMV ELECTRIC HOT WATER HEATER CAPACITY 10 LTR
- ESP WATER METER
- MS WATER METER
- LT UP/MS COLD WATER SUPPLY
- LT DOWN/MS COLD WATER SUPPLY
- HT/MS CROSS LINKED POLYETHYLENE
- HT/MS CROSSLINKED POLYETHYLENE
- HT/MS DRINKING WATER
- HT/MS HOT WATER SUPPLY
- HT/MS FIRE EXTINGUISHER (BY CODE)
- HT/MS CONCRETE PIPE
- HT/MS WATER AUTHORITY OF JORDAN
- HT/MS HIGH DENSITY POLY ETHYLENE

SYMBOLS:

- W SWIMMER
- FD FLOOR DRAIN
- CO CLEAN OUT
- OP DOWN PIPE
- LT COLD WATER SUPPLY
- OP DOWN PIPE
- HT HOT WATER SUPPLY

GENERAL NOTES:

- ALL DRAINAGE PIPES SHALL BE UPVC CLASS II BAR
- ALL UNDER TILE DOMESTIC WATER PIPES SHALL BE UPVC UNLESS OTHERWISE STATED.
- ALL MARBLE COVERS SHALL BE MEDIAN CUT.
- EXTRACT FANS SHALL BE ACCOMPANIED WITH AUTOMATIC SHUTTERS.
- CONTRACTOR SHALL COMPLY WITH BHA REGULATIONS FOR MARBLE, PIPE CROSSING THE STREET, ETC.
- CONTRACTOR SHALL COORDINATE ALL NEW WORKS WITH BHA PRIOR TO INSTALLATION.

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Japan International Cooperation Agency (JICA)
JICA Study Team:
Joint Venture of Pacific Consultants International and Yamashita Sekkei Inc.
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consolidated consultants
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Tel: 912277 - Fax: 491230 - AMMAN - JORDAN

Date: June 2000

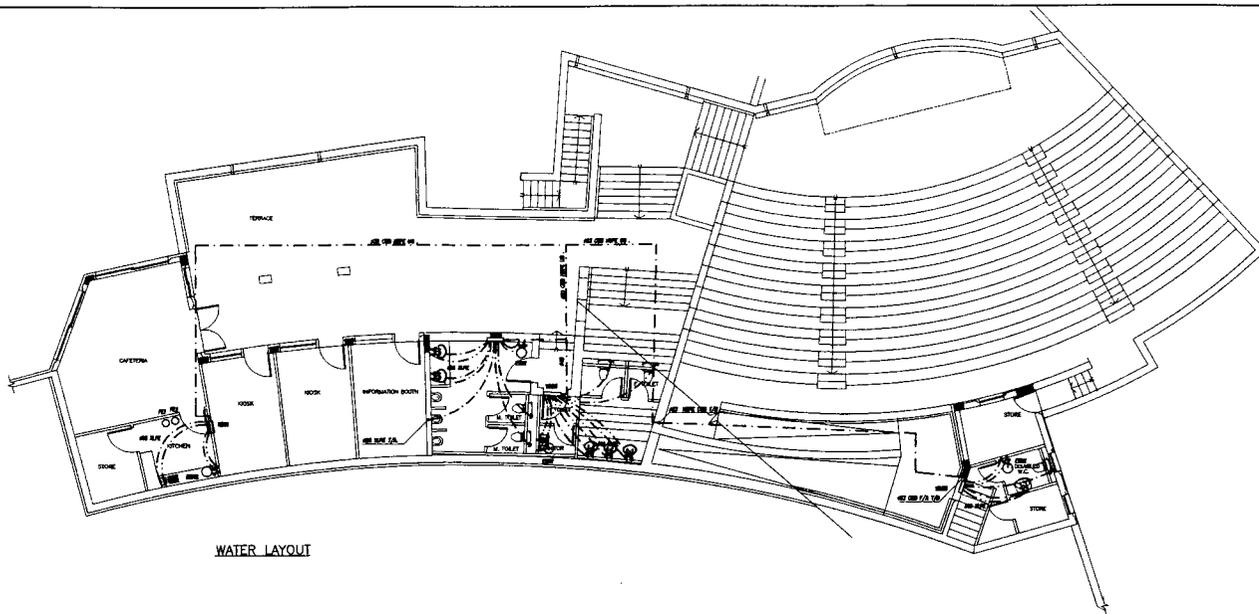
GROUND & BASEMENT FLOORS
WATER, DRAINAGE
& ROOF LAYOUTS

Drawing Title:

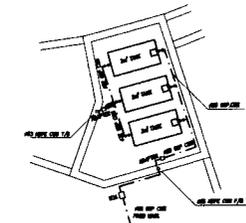
Scale: 1/100

Drawing No.:

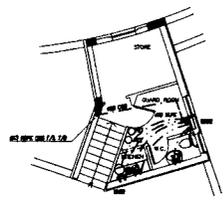
UOP.M-001



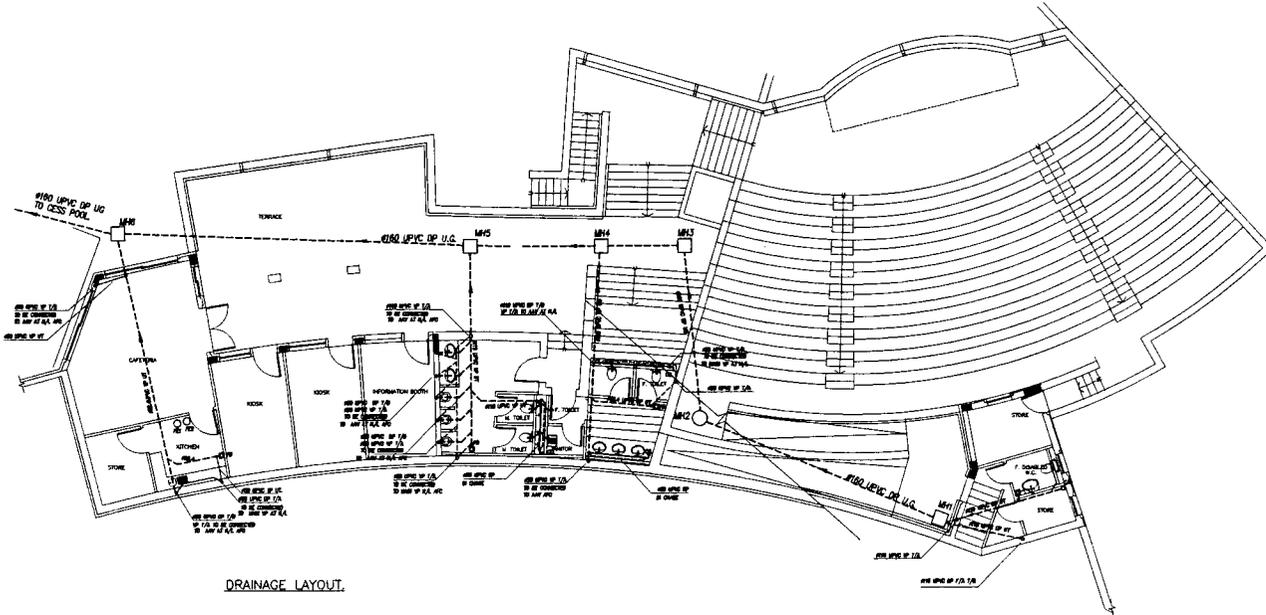
WATER LAYOUT



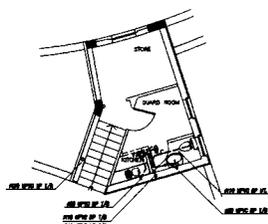
WATER LAYOUT



WATER LAYOUT

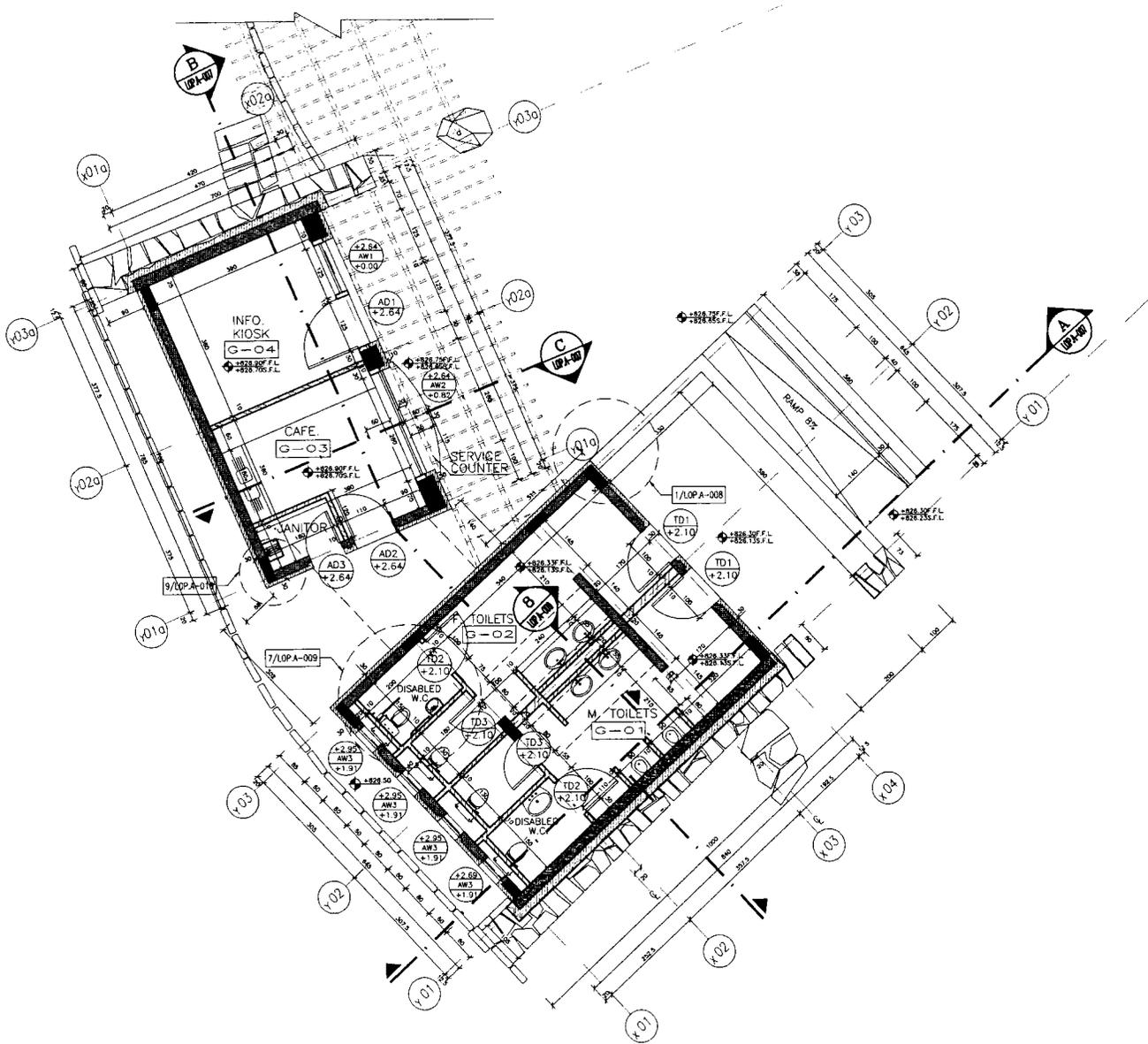


DRAINAGE LAYOUT



DRAINAGE LAYOUT

| MANHOLE SCHEDULE. | | | | | |
|-------------------|-------------|--------------|-----------|----------|---------|
| NO. | COVER LEVEL | INVERT LEVEL | DEPTH (m) | SIZE (m) | NOTES. |
| MH1 | 1036.20 | 1036.60 | 600 | 800x800 | - |
| MH2 | 1036.10 | 1037.25 | 1670 | #600 | DR.LIN. |
| MH3 | 1037.03 | 1038.51 | 520 | 800x800 | - |
| MH4 | 1037.03 | 1036.43 | 800 | 800x800 | - |
| MH5 | 1037.03 | 1036.33 | 700 | 800x800 | - |
| MH6 | 1037.03 | 1036.13 | 900 | 800x800 | - |



Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Lower Observation Point

Note:
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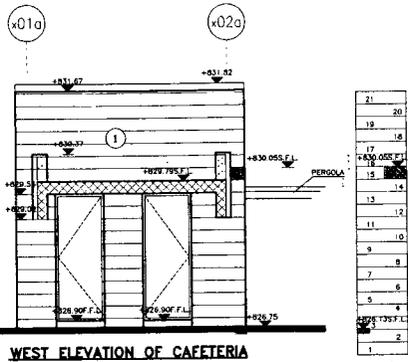
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JICA Study Team:
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Yamamoto Sekkei Inc.
Subcontracted Local Consultant:

consolidated consultants
Tel: 4813777 - Fax: 4813380 - AMMAN - JORDAN

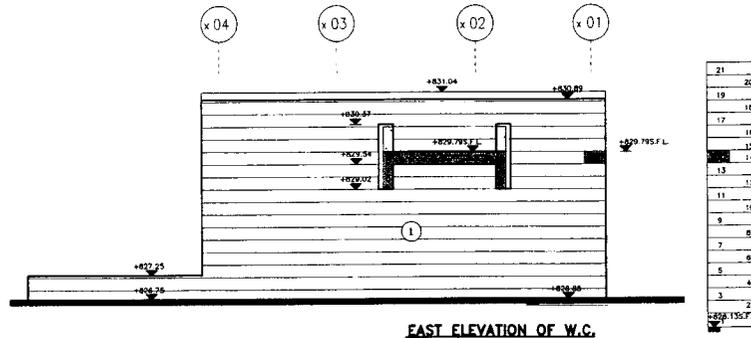
Date: June 2000

GROUND FLOOR PLAN
Drawing Title:

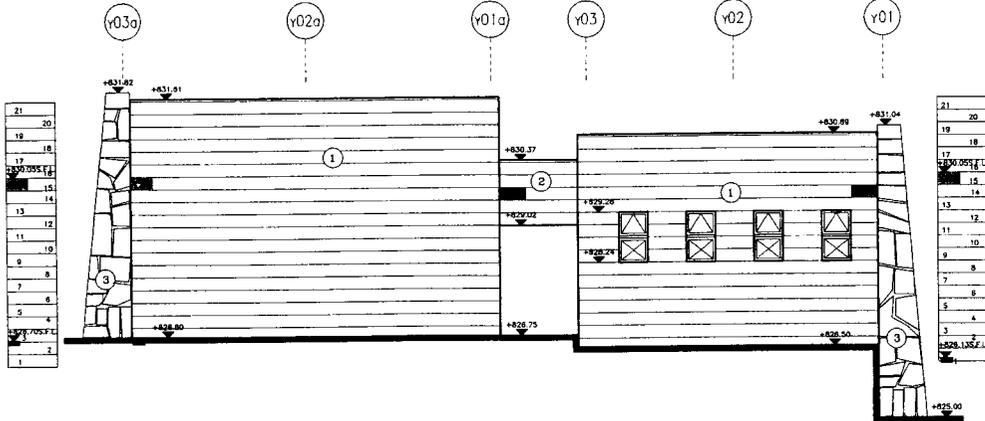
Scale: 1/50
Drawing No.: LOP A-005



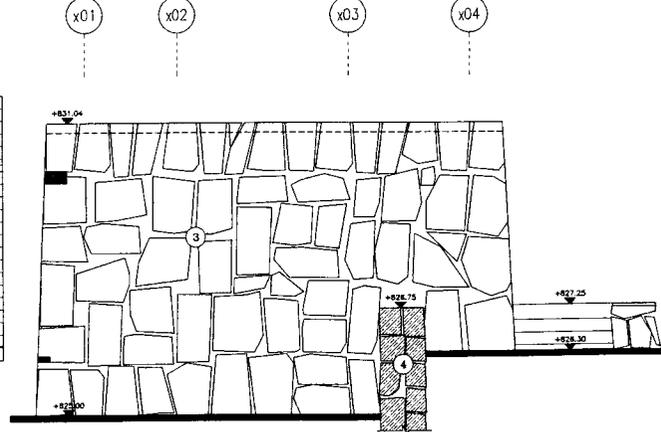
WEST ELEVATION OF CAFETERIA



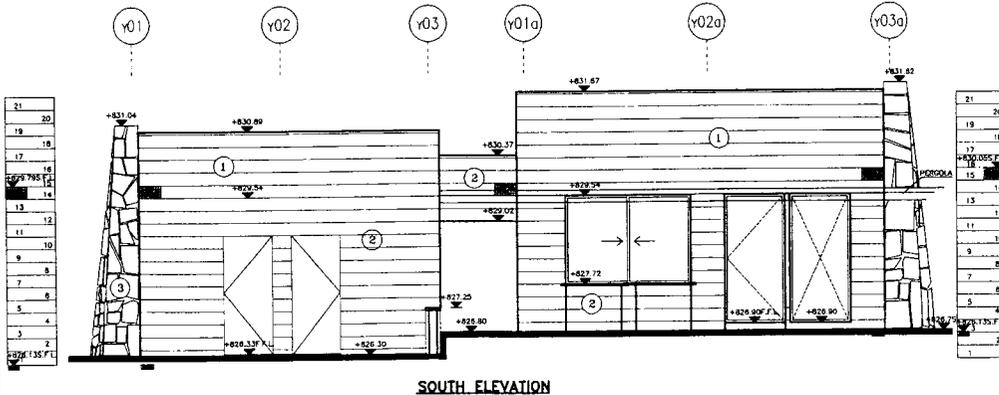
EAST ELEVATION OF W.C.



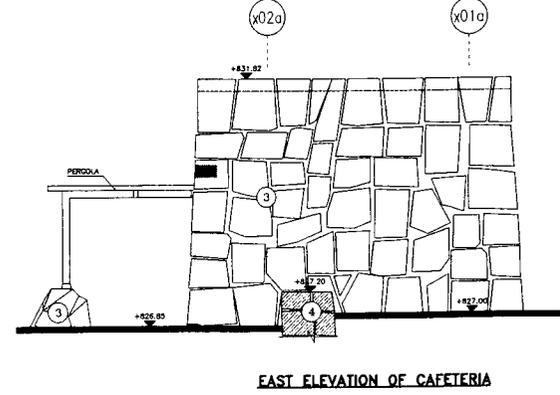
NORTH ELEVATION



WEST ELEVATION OF W.C.



SOUTH ELEVATION



EAST ELEVATION OF CAFETERIA

Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Lower Observation Point

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LEGEND:
① : MA'AN WHITE STONE COURSES
② : KARAK BLACK STONE COURSES
③ : KARAK BLACK STONE (BIG ROUGH CUTS)
④ : WHITE RUBBLE STONE

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JICA Study Team:
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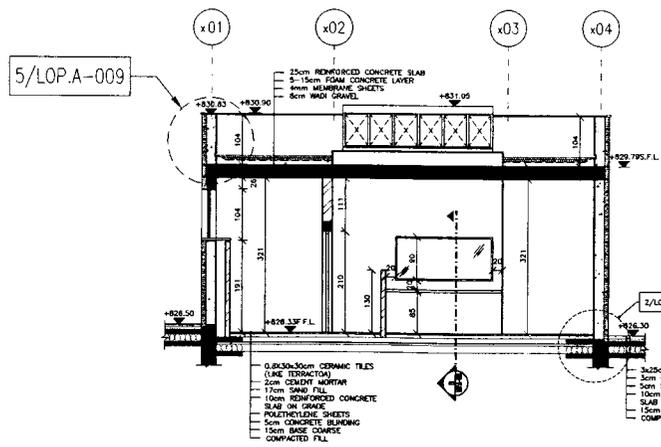
consolidated consultants
ENGINEERING & ARCHITECTURE
Tel: 4822777 - Fax: 4822800 - 488888 - 20904

Date: June 2000

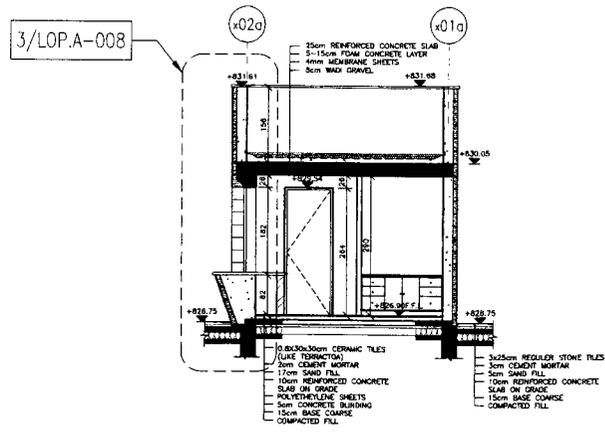
ELEVATIONS

Drawing Title:

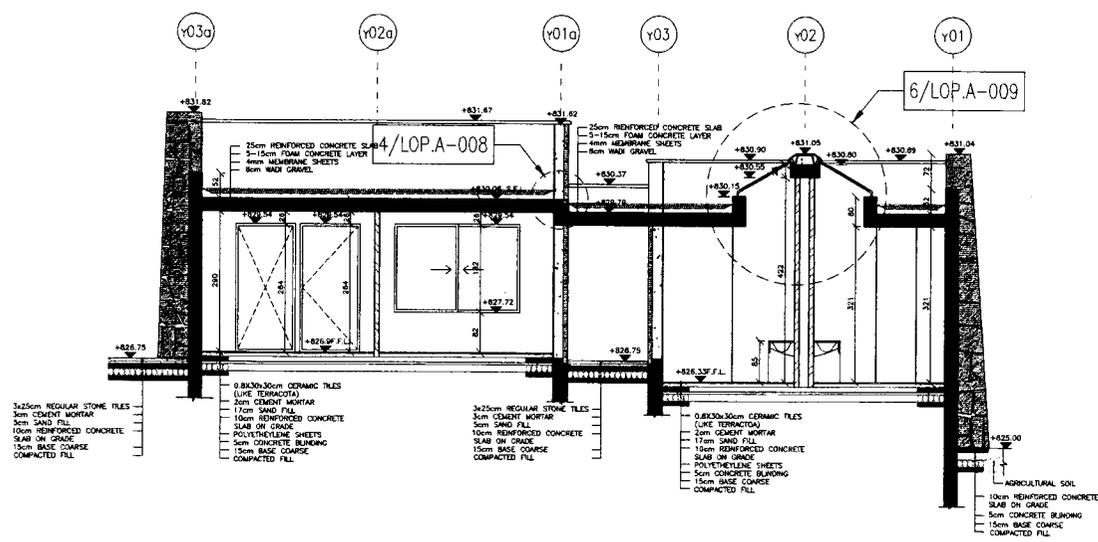
Scale: 1/50 Drawing No.: LOP.A-006



SECTION (A-A)



SECTION (C-C)



SECTION (B-B)

Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Lower Observation Point

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Tel: 4812377 - Fax: 4812380 - 10000 - 20000

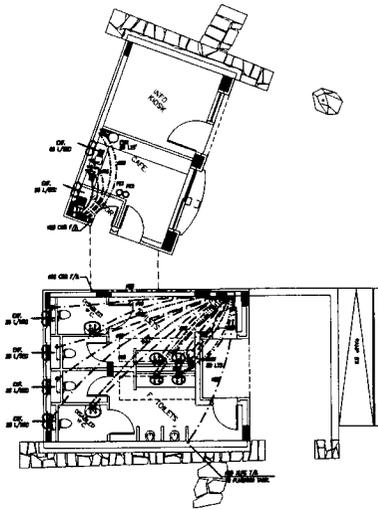
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|-------|------|------|
| Date: | June | 2000 |
|-------|------|------|

SECTIONS

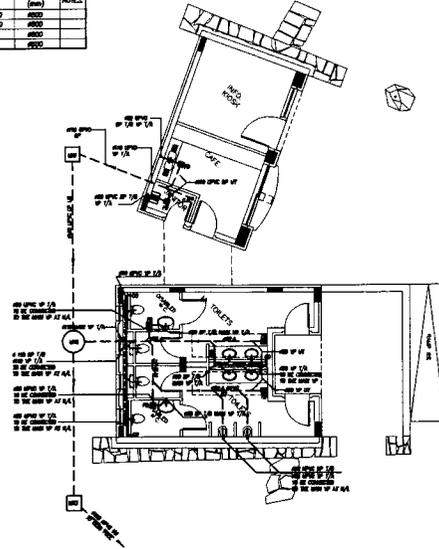
Drawing Title:

| | | |
|--------|--------------|-----------|
| Scale: | Drawing No.: | LOP.A-007 |
| 1/50 | | |

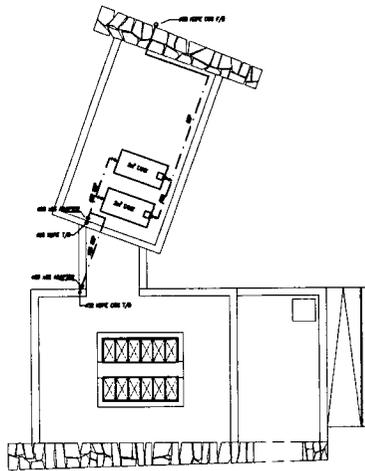
| MANHOLE SCHEDULE | | | | | | |
|------------------|-----------------|------------------|-------------------|-------------------|-----------------|-------|
| No. | COVER LEVEL (m) | INVERT LEVEL (m) | MANHOLE DEPTH (m) | MANHOLE SIZE (mm) | COVER SIZE (mm) | NOTES |
| MHT | 258.40 | 252.40 | 6.00 | 800x800 | 800 | |
| MHC | 258.00 | 252.00 | 7.00 | 800x800 | 800 | |
| MFD | 256.00 | 254.50 | 1.50 | 800 | 800 | |
| MHA | 258.00 | 254.75 | 3.25 | 800 | 800 | |



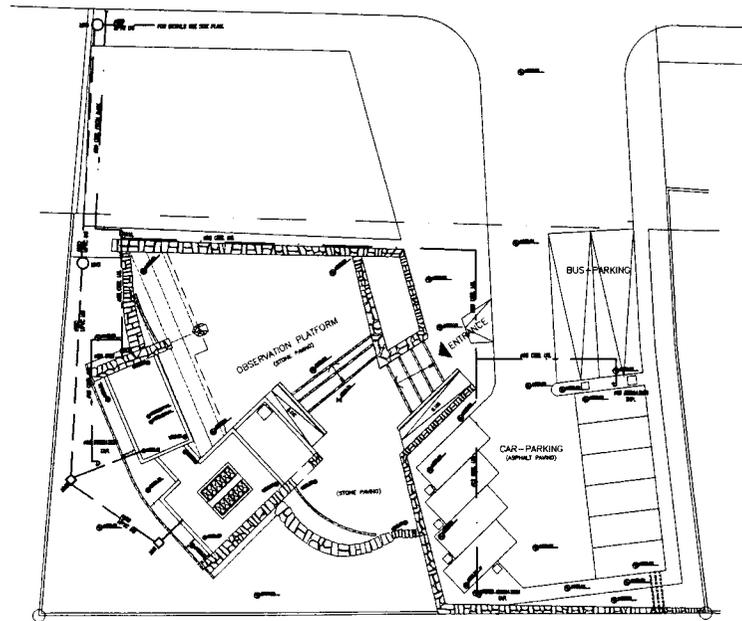
GROUND FLOOR PLAN WATER DISTRIBUTION LAYOUT
(1/200)



GROUND FLOOR PLAN DRAINAGE LAYOUT
(1/200)



ROOF PLAN WATER DISTRIBUTION LAYOUT
(1/200)



SITE PLAN MECHANICAL WORK
(1/200)

Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Lower Observation Point

Note:
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F21 FIRE EXTINGUISHER 8kg (20%)
F22 FIRE EXTINGUISHER 8kg (20%)
CP CONCRETE PIPE
WJ WATER AUTHORITY OF JORDAN

SYMBOLS:

- W STRONG
- FD FLOOR DRAIN
- CO CLEAN OUT
- DP DRAIN PIPE
- CD COLD WATER SUPPLY
- DP DRAIN PIPE
- HW HOT WATER SUPPLY

GENERAL NOTES:

- ALL DRAINAGE PIPES SHALL BE UPVC CLASS 18 BAR
- ALL UNDER FLE DOMESTIC WATER PIPES SHALL BE RUPC UNLESS COVER WISE SHOWN
- ALL MANHOLE COVERS SHALL BE METRIC DUTY
- EXTRACT FANS SHALL BE ACCOMPANIED WITH AUTOMATIC SHUTTER
- CONTRACTOR SHALL COMPLY WITH ALL REGULATIONS FOR MANHOLE PIPE CROSSING THE STREET, ETC.
- CONTRACTOR SHALL COORDINATE ALL HIS WORKS WITH WJ PRIOR TO INSTALLATION.

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consolidated consultants
CONSULTANTS & ENGINEERS
Tel: 4412377 - Fax: 4412388 - AMMAN - JORDAN

Date: June 2000

Drawing Title: MECHANICAL WORKS

Scale: Drawing No: LOP.M-001

DISTRIBUTION PANEL BOARD

BUILDING : LOWER OBSERVATION LOCATION : W.C. PANEL NO. : DBB

VOLTAGE & FREQ. : 230V, 50Hz CABLE ENTRY : TOP & BOTTOM

| DESIGNATION OF LOAD | NO. | TRIP RATING | |
|---------------------|-----|-------------------------|------------|
| | | SIZE (mm ²) | RATING (A) |
| LIGHTING | 2.5 | 3 | 10A |
| H.DRAYER | 4 | 3 | 20A |
| H.DRAYER | 4 | 3 | 20A |
| W.HEATER | 4 | 3 | 20A |
| SPARE | | | 15A |
| SPARE | | | 8A |

TOTAL CONNECTED WATTS : 2800 → 50A/30mA ELCB

| | LIGHTING | HEAT | MISC. | TOTAL |
|------------------------|----------|------|-------|-------|
| TOTAL CONNECTED LOAD : | 3.58 | | | |
| TOTAL DEMAND LOAD : | 2.18 | | | |

DISTRIBUTION PANEL BOARD

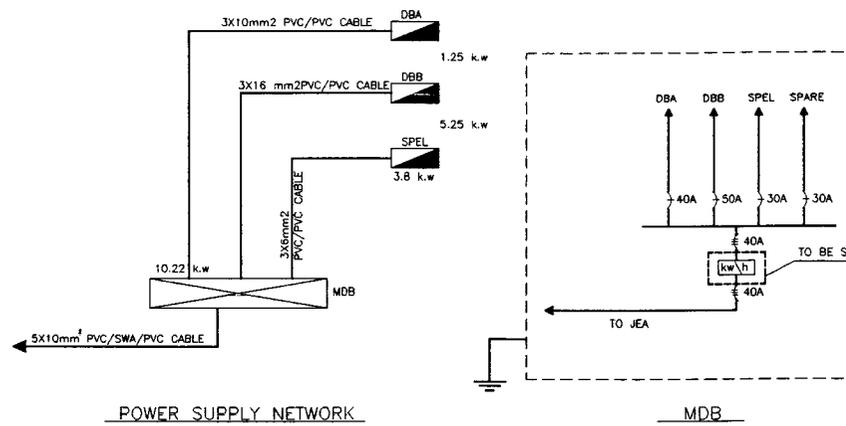
BUILDING : LOWER OBSERVATION LOCATION : INFO ROOM PANEL NO. : DBA

VOLTAGE & FREQ. : 230V, 50Hz CABLE ENTRY : TOP & BOTTOM

| DESIGNATION OF LOAD | NO. | TRIP RATING | |
|---------------------|-----|-------------------------|------------|
| | | SIZE (mm ²) | RATING (A) |
| LIGHTING | 2.5 | 3 | 10 |
| S.OUTLET | 2.5 | 3 | 15 |
| S.OUTLET | 2.5 | 3 | 15 |
| HEATER | 4 | 3 | 20 |
| SPARE | | | 15 |

TOTAL CONNECTED WATTS : 1850 → 40A/30mA ELCB

| | LIGHTING | HEAT | MISC. | TOTAL |
|------------------------|----------|------|-------|-------|
| TOTAL CONNECTED LOAD : | 1.08 | | | |
| TOTAL DEMAND LOAD : | 0.25 | | | |



Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

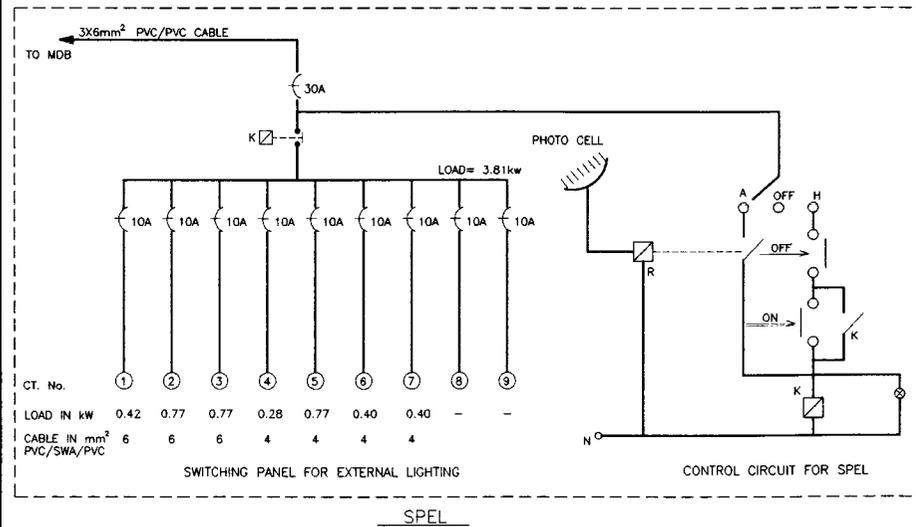
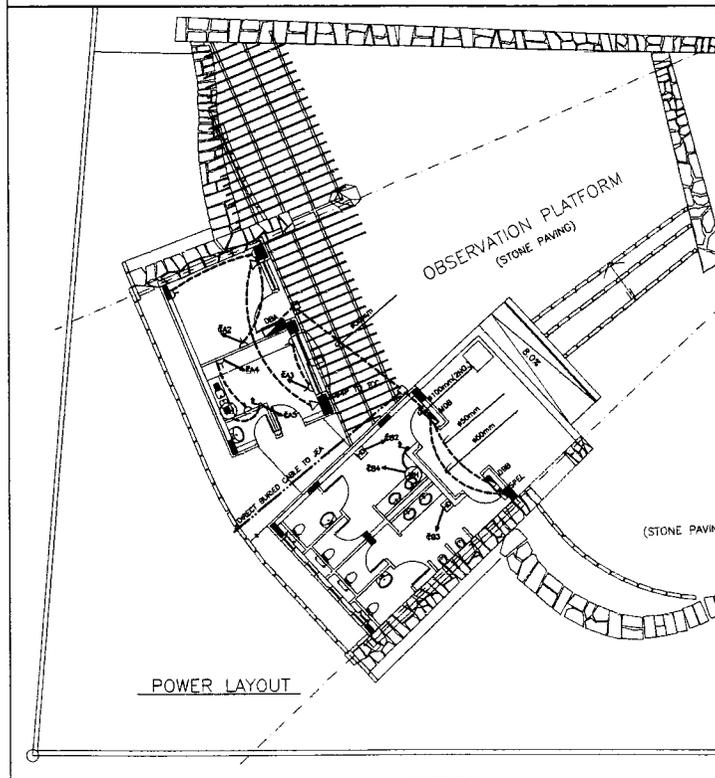
Executing Agency
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Lower Observation Point

Note:
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LEGEND

- WIRE OR CABLE IN CONDUIT UNDER FLOOR #25mm (OTHERWISE INDICATED).
- DIRECT BURIED CABLE
- ▽ TELEPHONE SOCKET OUTLET.
- POWER MANHOLE (40x40x40cm)



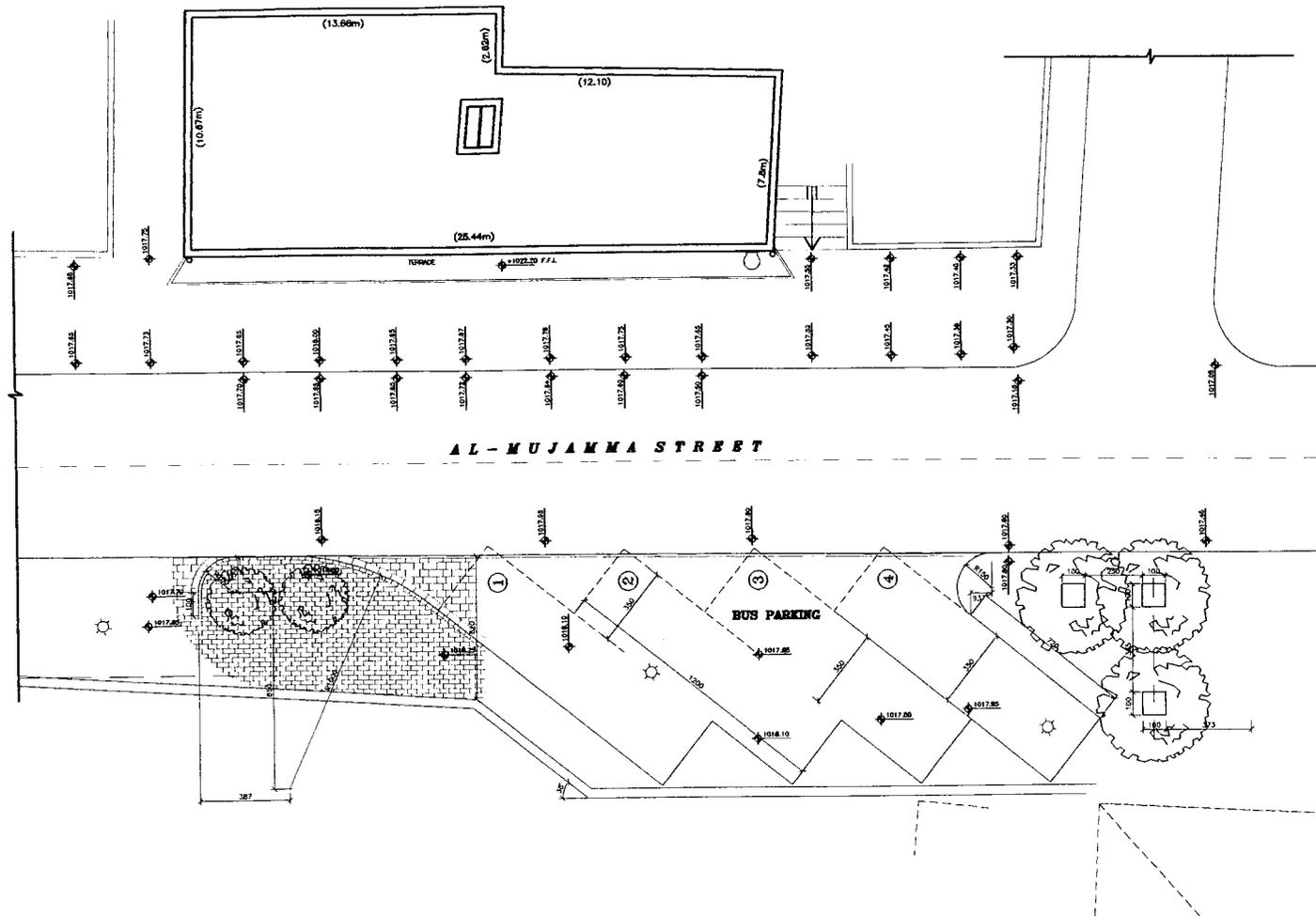
Designed by:
Japan International Cooperation Agency (JICA)
JICA Study Team:
Joint Venture of Pacific Consultants International and Yamasa Sekkei Inc.
Subcontracted Local Consultant:
consolidated consultants
JICA ENGINEERING & CONSULTANTS
P.O. BOX 1277 - FAC 91220 - AMMAN - JORDAN

Date: June 2000

POWER, TELEPHONE & ELECTRICAL PANELS

Drawing Title:

Scale: 1:1 Drawing No.: LOP.E-002

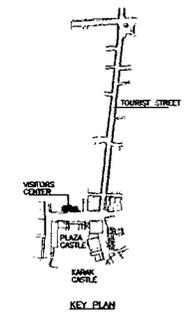


Project:
 Tourism Sector Development Project
 in the Hashemite Kingdom of Jordan

Executing Agency
 The Ministry of Tourism and Antiquities
 The Ministry of Planning

SUB-PROJECT:
 Karak Tourism Development Project
 Walkers Center

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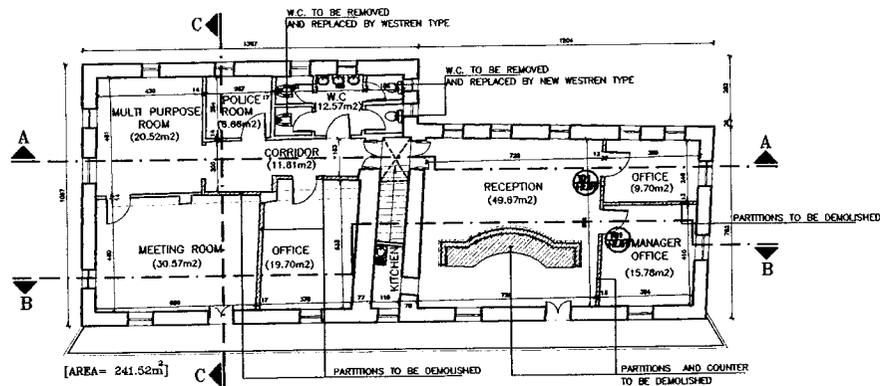
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 JICA Study Team:
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Subcontracted Local Consultant:

consolidated consultants
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 14, 16/177 - 1st FLOOR - AMMAN - JORDAN

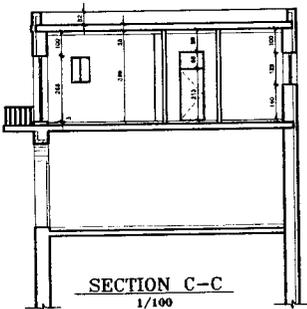
Date: June 2000

SITE PLAN
 Drawing Title:

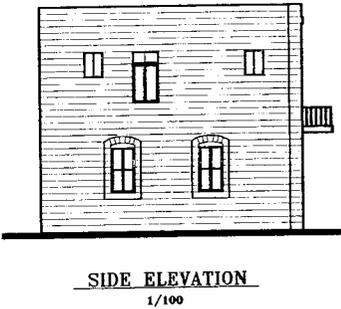
Scale: 1:100 Drawing No.: VC.A-001



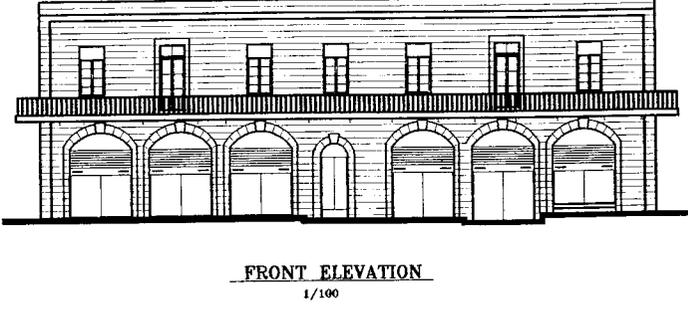
PLAN
1/100



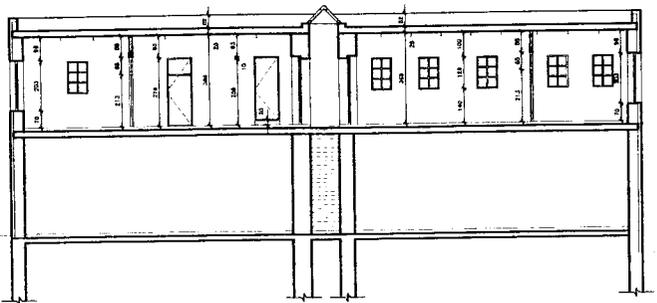
SECTION C-C
1/100



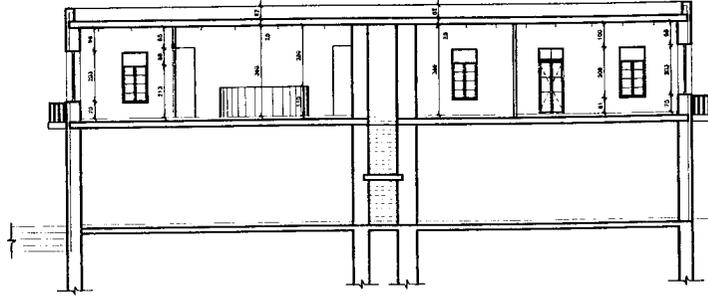
SIDE ELEVATION
1/100



FRONT ELEVATION
1/100



SECTION A-A
1/100



SECTION B-B
1/100

Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Wulkoff Center

Note:
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KEY PLAN

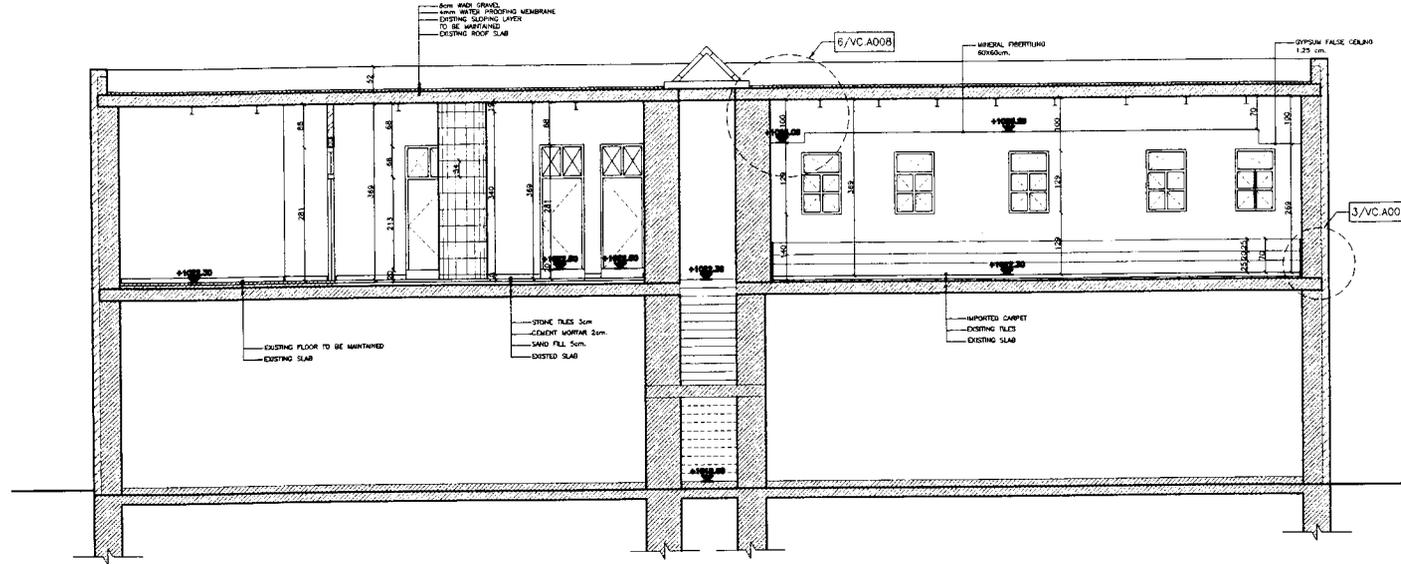
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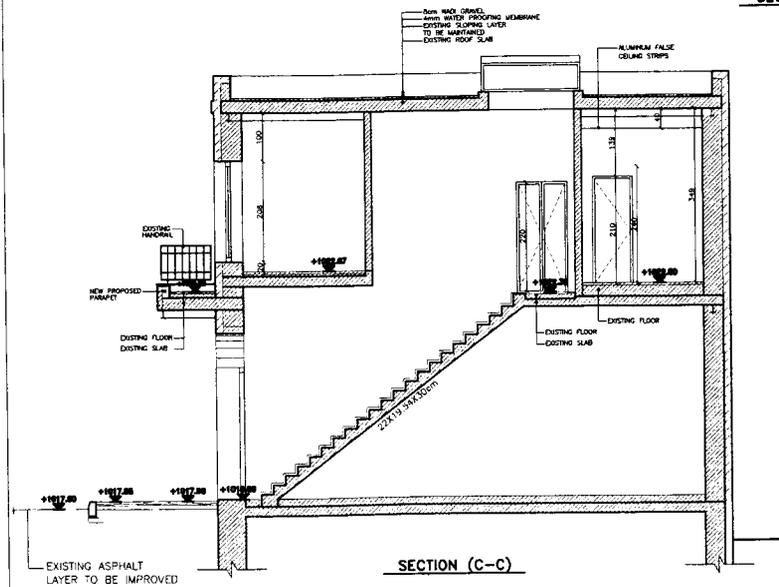
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EXISTING PLAN, ELEVATIONS AND SECTIONS
Drawing Title

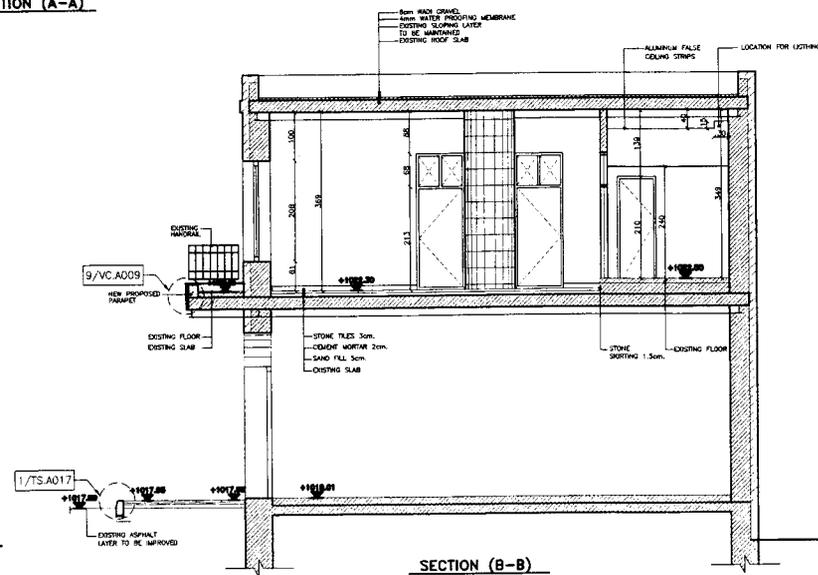
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SECTION (A-A)



SECTION (C-C)



SECTION (B-B)

Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency:
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Visitors Center

Note:
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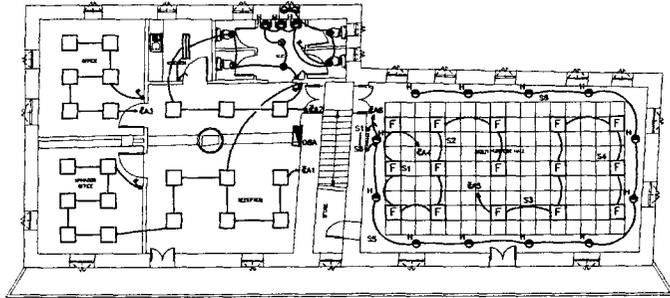
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consolidated consultants
CONSULTING & CONTRACTING
Tel: 4812377 - Fax: 4812380 - AMMAN - JORDAN

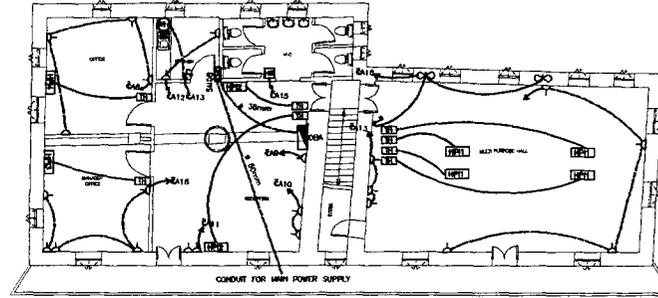
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INTERNAL ELEVATIONS (SECTIONS)
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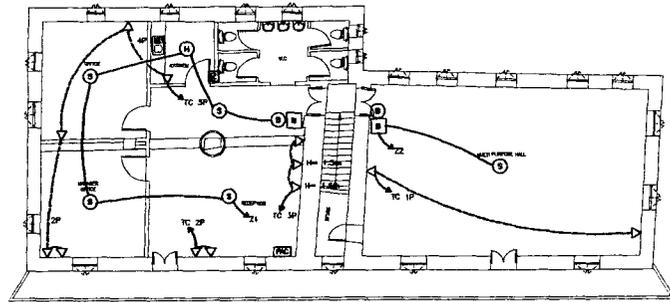
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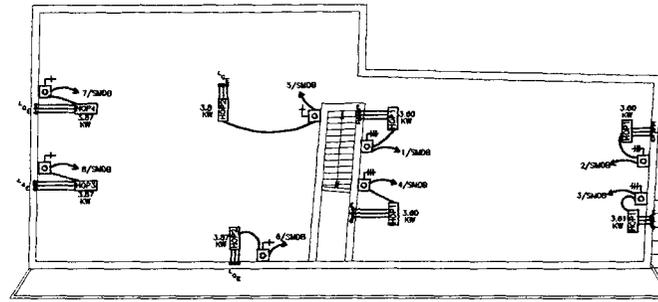
LIGHTING LAYOUT



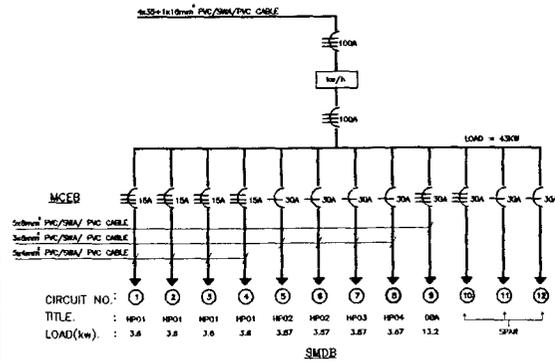
POWER LAYOUT



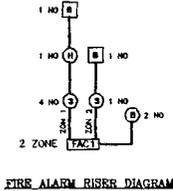
TELEPHONE & FIRE ALARM SYSTEMS



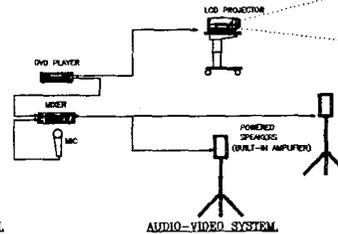
ROOF POWER



TELEPHONE RISER DIAGRAM



FIRE ALARM RISER DIAGRAM



DISTRIBUTION PANEL BOARD

| NO. | DESCRIPTION OF LOAD | AMPS | WATTS | NO. | DESCRIPTION OF LOAD | AMPS | WATTS |
|-----|---------------------|------|-------|-----|---------------------|------|-------|
| 1 | LIGHTING | 2.8 | 2.8 | 1 | LIGHTING | 2.8 | 2.8 |
| 2 | LIGHTING | 2.8 | 2.8 | 2 | LIGHTING | 2.8 | 2.8 |
| 3 | LIGHTING | 2.8 | 2.8 | 3 | LIGHTING | 2.8 | 2.8 |
| 4 | WIRE | 2.8 | 2.8 | 4 | LIGHTING | 2.8 | 2.8 |
| 5 | ROCKET OUTLET | 2.8 | 2.8 | 5 | ROCKET OUTLET | 2.8 | 2.8 |
| 6 | ROCKET OUTLET | 2.8 | 2.8 | 6 | ROCKET OUTLET | 2.8 | 2.8 |
| 7 | ROCKET OUTLET | 2.8 | 2.8 | 7 | ROCKET OUTLET | 2.8 | 2.8 |
| 8 | WATER HEATER | 4 | 11.2 | 8 | ROCKET OUTLET | 2.8 | 2.8 |
| 9 | HAND DRYER | 4 | 11.2 | 9 | ROCKET OUTLET | 2.8 | 2.8 |
| 10 | ROCKET OUTLET | 2.8 | 2.8 | 10 | ROCKET OUTLET | 2.8 | 2.8 |
| 11 | ROCKET OUTLET | 2.8 | 2.8 | 11 | ROCKET OUTLET | 2.8 | 2.8 |
| 12 | ROCKET OUTLET | 2.8 | 2.8 | 12 | ROCKET OUTLET | 2.8 | 2.8 |

Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency:
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Walkers Center

Notes:
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- LEGEND AND NOTES:**
- 200W FLUORESCENT LIGHTING FIXTURE WITH PRAGMATIC OUTLET(F2)
 - 4X15w SURFACE MOUNTED FLUORESCENT WITH DOWNLIGHT(F1)
 - DITTO BUT RECESSED IN FALSE CEILING(F3)
 - 80w RECESSED SPOT LIGHT(F1)
 - 12v, 50w HALOGEN SPOT LIGHT WITH 230/12v TRANSFORMER(F2)
 - RA11 TELEPHONE OUTLET
 - KONZAROH SMOKE DETECTOR
 - BREAK GLASS CALL POINT
 - (F) ALARIN BELL
 - TELEPHONE CONNECTION BOX
 - 13A SOCKET OUTLET MOUNTED AT 450mm F.F.L
 - HAND DRYER
 - EXTRACT FAN
 - THERMOSTAT
 - (1) PHASE, EPS ISOLATOR
 - DITTO BUT (3) PHASE
 - RATE OF RISE HEAT DEFLECTOR
 - FIRE ALARM PANEL
 - 20A DOUBLE POLE SWITCH WITH FUSED LAMP
 - WATER HEATER
 - UNDER FLEES PVC COULST
 - ABOVE FALSE CEILING OR IN EXISTING SLAB PVC CONDUIT
 - 20mm PVC CONDUITS TO BE USED FOR LEADING CIRCUITS, FIRE ALARM, TELEPHONE, EXTRACT FANS AND THERMOSTAT.
 - 25mm PVC COULST TO BE USED FOR POWER SOCKET OUTLET AND HAND DRYERS.
 - 30mm PVC COULST TO BE USED FOR A/C SPLIT UNIT.

Designed by:
Japan International Cooperation Agency (JICA)
JICA Study Team:
Joint Venture of Pacific Consultants International and Yamomoto Seisaku Inc.

Subcontracted Local Consultant:

consolidated consultants
101, AL-SAYED ST. - JORDAN
TEL: 962-677-46000 - FAX: 962-677-46000

Date: June 2000

VISITOR CENTER
ELECTRICAL WORKS

Drawing No. VC.E-001

Scale: 1/100

Project
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Walkers Center

Note:
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- NOTE:**
- 1- ALL DIMENSIONS ARE IN MM.
 - 2- CONTRACTOR SHALL COORDINATE ALL CEILING DIFFUSERS WITH REFLECTED CEILING PLAYS.
 - 3- CONTRACTOR SHALL CALCULATE SUPPLY AND EXTRACT FAN STATIC PRESSURE UPON FINAL SELECTION OF EQUIPMENT. PRESSURE LOSS SHALL INCLUDE ALL AIR INLETS AND OUTLETS, DAMPERS, FLEXIBLE DUCT WORK, FILTERS AND COILS.
 - 4- CONTRACTOR SHALL REFER TO DRAWING IN ORDER TO VERIFY ALL REQUIRED HOPE CRITERIA (W/C) FOR EACH SPACE.
 - 5- PREVAILING WIND DIRECTION SHALL BE CONSIDERED WHILE LOCATING FRESH AIR INTAKE TO PREVENT ANY EXHAUST INTRUSION INTO FRESH AIR INTAKE.
 - 6- ALL A/C COMPONENTS SHALL BE SELECTED UPON TOOTH OUTSIDE TEMPERATURE.

- LEGEND:**
- SD : SUPPLY CEILING DIFFUSER
 - RCO : RETURN CEILING GRILLE
 - DF : EXTRACT FAN
 - FA : FRESH AIR
 - HP : SPLIT HEAT PUMP INDOOR UNIT
 - HPO : SPLIT HEAT PUMP OUTDOOR UNIT
 - H/L : HIGH LEVEL
 - L/A : TO ABOVE
 - F/B : FROM BELOW
 - 0 : TO BELOW
 - S/L : SUCTION LINE
 - L : LIQUID LINE
 - E : ELECTRICAL CONNECTION
 - F.E2 : FINE EXTRACTOR (kg (bar))
 - F.E1 : FINE EXTRACTOR (kg (G22))
 - F.O : FLOOR DRAIN
 - DF : EXHAUST FAN
 - HC : HOOK PLACE CEILING
 - CT : ROOM THERMOSTAT

Designed by:
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JICA Study Team:
Joint Venture of Pacific Consultants International and Yamanaka Seimei Inc.
Subcontracted Local Consultant:

consultants
12 441277 - fax 441281 - 0000 - 0000

Date: June 2000

MECHANICAL WORKS

Drawing Title

Scale: 1/100
Drawing No.: VC.W-001

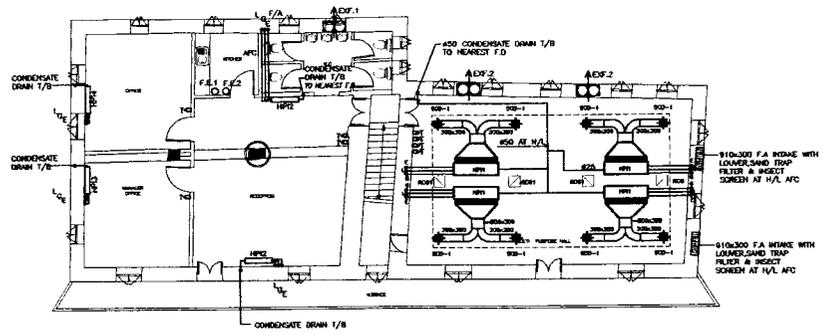
18/12/1999

| HEAT PUMP SCHEDULE | | | | | | | | | | | | | |
|--------------------|--------------------|--------------|------|----------|------------------------|---------------|---------|-------------------|---------|------|---|--|-------------------------|
| No. | SERVED AREA | COOLING COIL | | | HEATING CAPACITY kW | SUPPLY FAN | | EST. COMP. COEFF. | MCC No. | TYPE | | | |
| | | COIL NO. | TYPE | CAPACITY | | EST. TOTAL kW | EST. KW | | | | | | |
| HP1 | MULTI PURPOSE HALL | 29.2 | 19.2 | 12.8 | 6.862 | 11.158 | 8.448 | 5.0 | 0.075 | 3.58 | N | | DUCTED |
| HP2 | RECEPTION | 23.5 | 15.3 | 10.9 | 12.1 | 6.302 | 7.508 | - | - | 3.87 | H | | DECORATIVE WALL MOUNTED |
| HP3 | MANAGER OFFICE | 24.1 | 15.8 | 14.0 | 10.8 | 8.348 | 8.100 | - | - | 3.87 | H | | DECORATIVE WALL MOUNTED |
| HP4 | OFFICE | 23.8 | 15.5 | 12.1 | 8.461 | 7.812 | 7.123 | - | - | 3.87 | N | | DECORATIVE WALL MOUNTED |

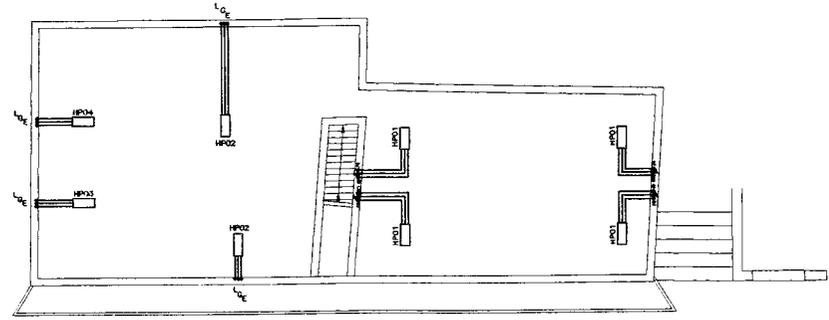
| FANS SCHEDULE | | | | | | | | |
|---------------|----------|--------------------|-------------------|-------------------------|------------|------------|-----------|-------------------------------------|
| FAN NO. | LOCATION | SERVED AREA | CAPACITY L/SEC | ESTM TOTAL SP/MinH2O | ESTM kW | M.C.C. NO. | | REMARKS |
| | | | | | | NORMAL | EMERGENCY | |
| EXP.1 | WALL | TOILETS | 100 | - | 0 | H | | WALL MOUNTED WITH AUTOMATIC SHUTTER |
| EXP.2 | WALL | MULTI PURPOSE HALL | 300 | - | 0.040 | N | | WALL MOUNTED WITH AUTOMATIC SHUTTER |

| DIFFUSER SCHEDULE | | | | | | | |
|-------------------|-------------------|--------------------|--------------------|------------|----|-----|----------------------------|
| DIFFUSER NO. | AIR FLOW L/SEC | SERVED AREA | HOOK SIZE MMxMM | THROW M | NO | QTY | TYPE |
| SCD-1 | 237 | MULTI PURPOSE HALL | 300x300 | 5.0 | 23 | 8 | FOUR WAY -CEILING DIFFUSER |

| RETURN GRILLE SCHEDULE | | | |
|------------------------|---------------|-----|--------------|
| GRILLE No. | SIZE mmxmm | QTY | TYPE |
| RCO1 | 400x400 | 4 | CEILING TYPE |



FIRST FLOOR PLAN HVAC LAYOUT
(1:100)



ROOF PLAN HVAC LAYOUT
(1:100)