

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
Tourist Street

Note:
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LEGEND:
--- EXISTING WATER LINE
--- PROPOSED WATER LINE

SYMBOLS & ABBREVIATIONS:
--- END CAP (EXISTING)
--- VALVE CHAMBER (EXISTING)
--- BLACK STEEL CEMENT LINED PIPE (EXISTING)
--- HDPE PIPE (PROPOSED)
--- FINISH FLOOR LEVEL
--- HOUSE CONNECTION

NOTE:
1- ALL PIPE DIMENSIONS ARE IN (mm), AND ALL PIPE LENGTHS ARE IN (m) UNLESS OTHER WISE STATED.
2- ALL EXISTING MAIN WATER LINES ARE BLACK STEEL CEMENT LINED.
3- ALL HOUSE CONNECTIONS SHALL BE HDPE PIPES.
4- ALL WATER PIPES SHALL BE INSTALLED 300mm BELOW STREET.
5- ANY DAMAGES TO THE SUBSOL UTILITIES WHICH OCCUR AS A RESULT OF THE CONTRACTOR WORK SHALL BE REPAIRED AND COVERED BY THE CONTRACTOR EXPENSES. IN ANY HOW NO ALLOWANCE SHALL BE MADE FOR SUCH CONNECTIONS.
6- CONTRACTOR SHALL CONSIDER THE EXISTING MAIN WATER LINE.
7- EXISTING GROUND LEVELS CAN BE READ FROM DWG. TS.M-001

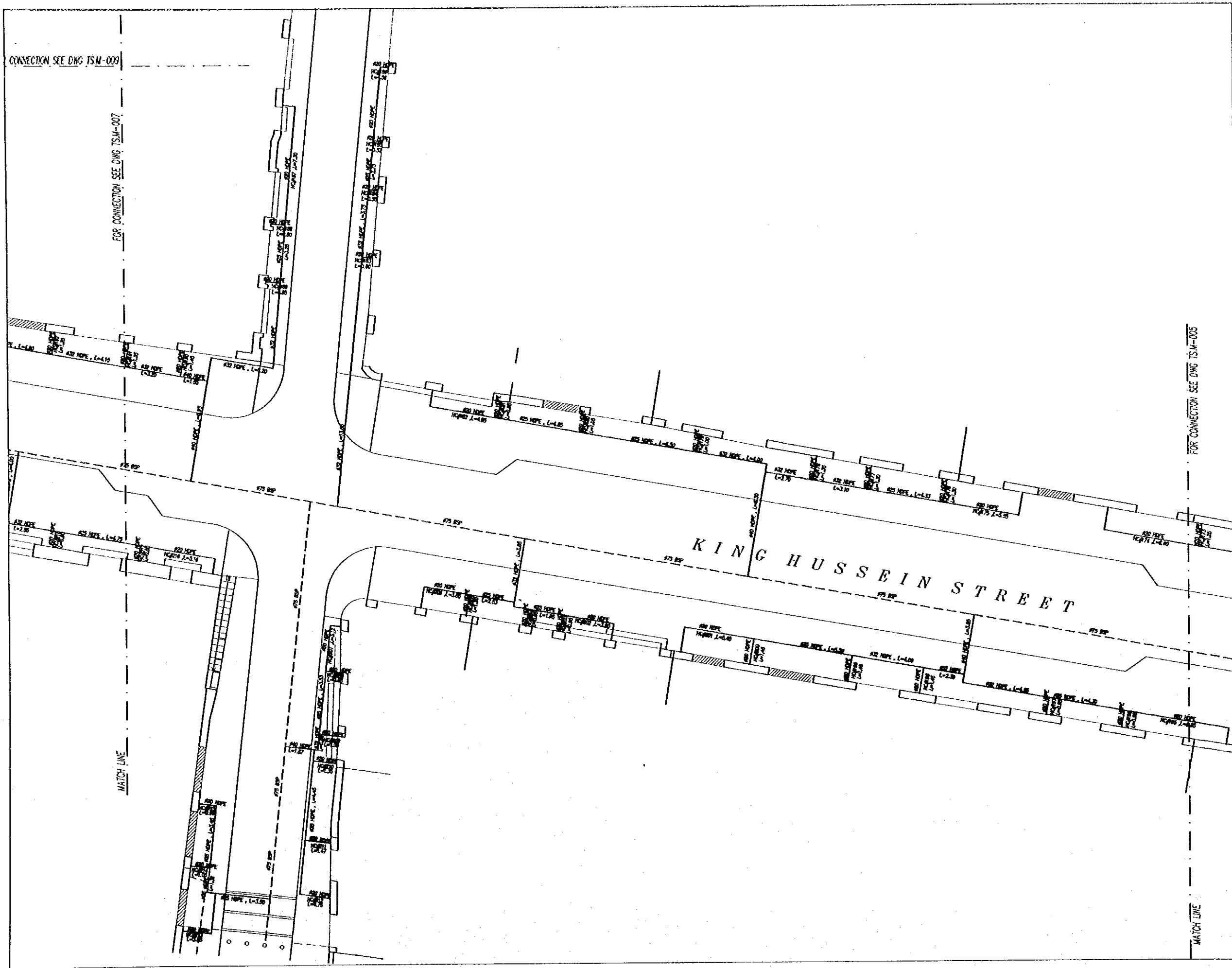
KEYPLAN

Designed by:
Japan International Cooperation Agency (JICA)
JICA Study Team:
Joint Venture of Pacific Consultants International and Yamasita Sekkei Inc.
Subcontracted Local Consultant:

consolidated consultants
Engineering & Environment
Tel: 0112277 - Fax: 0112288 - JAPAN - JORDAN

WATER DISTRIBUTION LAYOUT-5
Drawing Title:

Scale: 1/100 Drawing No: TS.M-005



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

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

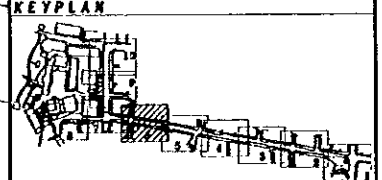
SUB-PROJECT:
Karak Tourism Development Project
Tourist Street

Note:
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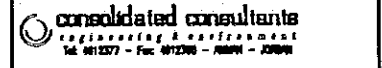
LEGEND:
--- EXISTING WATER LINE
--- PROPOSED WATER LINE

SYMBOLS & ABBREVIATIONS:
 - : END CAP (EXISTING)
 V : VALVE CHAMBER (EXISTING)
 BSP : BLACK STEEL CEMENT LINED PIPE (EXISTING)
 HDPE : HIGH DENSITY POLYETHYLENE (PROPOSED)
 F.F.L. : FINISH FLOOR LEVEL
 HC : HOUSE CONNECTION

NOTE:
 1- ALL PIPE DIAMETERS ARE IN (mm), AND ALL PIPE LENGTHS ARE IN (M) UNLESS OTHER WERE STATED.
 2- ALL EXISTING MAIN WATER LINES ARE BLACK STEEL CEMENT LINED.
 3- ALL HOUSE CONNECTIONS SHALL BE HDPE PIPES.
 4- ALL WATER PIPES SHALL BE INSTALLED 300mm BELOW STREET.
 5- ANY DAMAGES TO THE SUBSOIL UTILITIES WHICH OCCUR AS A RESULT OF THE CONTRACTOR WORK SHALL BE REPAIRED AND CORRECTED ON THE CONTRACTOR EXPENSES. IN ANY WAY NO ALLOWANCE SHALL BE MADE FOR SUCH CONNECTIONS.
 6- CONTRACTOR SHALL CONSIDER THE EXISTING MAIN WATER LINE.
 7- EXISTING GROUND LEVELS CAN BE READ FROM DWG. TSM-001

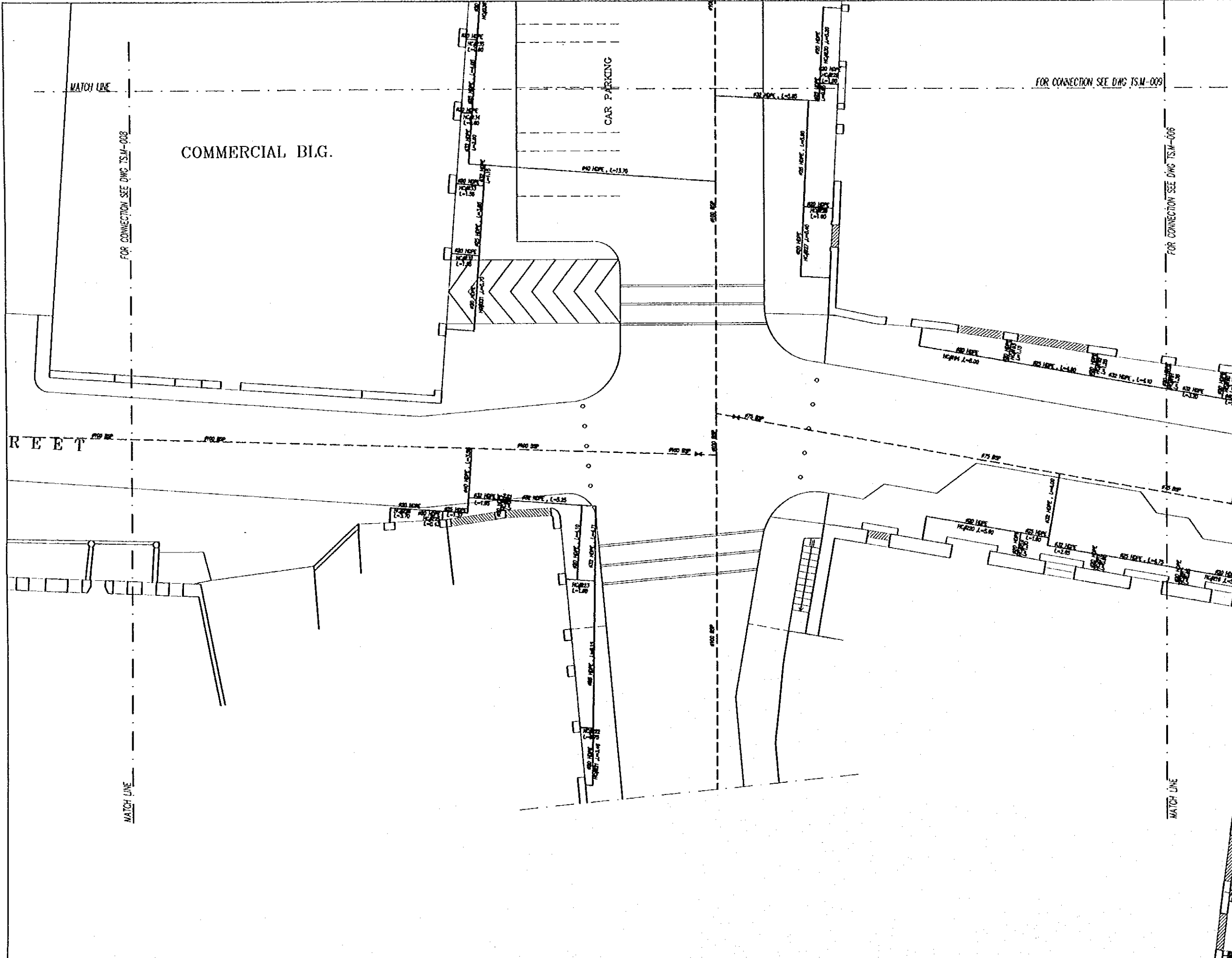
KEYPLAN


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JICA Study Team:
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Subcontracted Local Consultant:

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WATER DISTRIBUTION LAYOUT-6
 Drawing Title:

Scale: 1/100 **Drawing No.:** TSM-006



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 Tourism Sector Development Project
 in the Hashemite Kingdom of Jordan

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

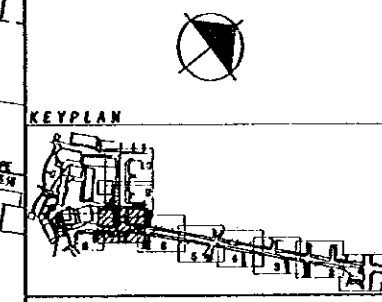
SUB-PROJECT:
 Karak Tourism Development Project
 Tourist Street

Note:
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 The copyright of this drawing rests with JICA.

LEGEND:
 - - - - - EXISTING WATER LINE
 ——— PROPOSED WATER LINE

SYMBOLS & ABBREVIATIONS:
 — : END CAP (EXISTING)
 ◊ : VALVE CHAMBER (EXISTING)
 BSP : BLACK STEEL CEMENT LINED PIPE (EXISTING)
 HOPE : HIGH DENSITY POLYETHYLENE (PROPOSED)
 F.F.L. : FINISH FLOOR LEVEL
 HC : HOUSE CONNECTION

NOTE:
 1- ALL PIPE DIAMETERS ARE IN (mm), AND ALL PIPE LENGTHS ARE IN (m) UNLESS OTHERWISE STATED.
 2- ALL EXISTING MAIN WATER LINES ARE BLACK STEEL CEMENT LINED.
 3- ALL HOUSE CONNECTIONS SHALL BE HOPE PIPES.
 4- ALL WATER PIPES SHALL BE INSTALLED 1000mm BELOW STREET.
 5- ANY DAMAGES TO THE SUBSISTENT UTILITIES WHICH OCCUR AS A RESULT OF THE CONTRACTOR WORK SHALL BE REPAIRED AND CORRECTED AT THE CONTRACTOR EXPENSES. IN ANY HOW NO ALLOWANCE SHALL BE MADE FOR SUCH CORRECTIONS.
 6- CONTRACTOR SHALL CONSIDER THE EXISTING MAIN WATER LINE.
 7- EXISTING GROUND LEVELS CAN BE READ FROM DWG. T.S.M-005



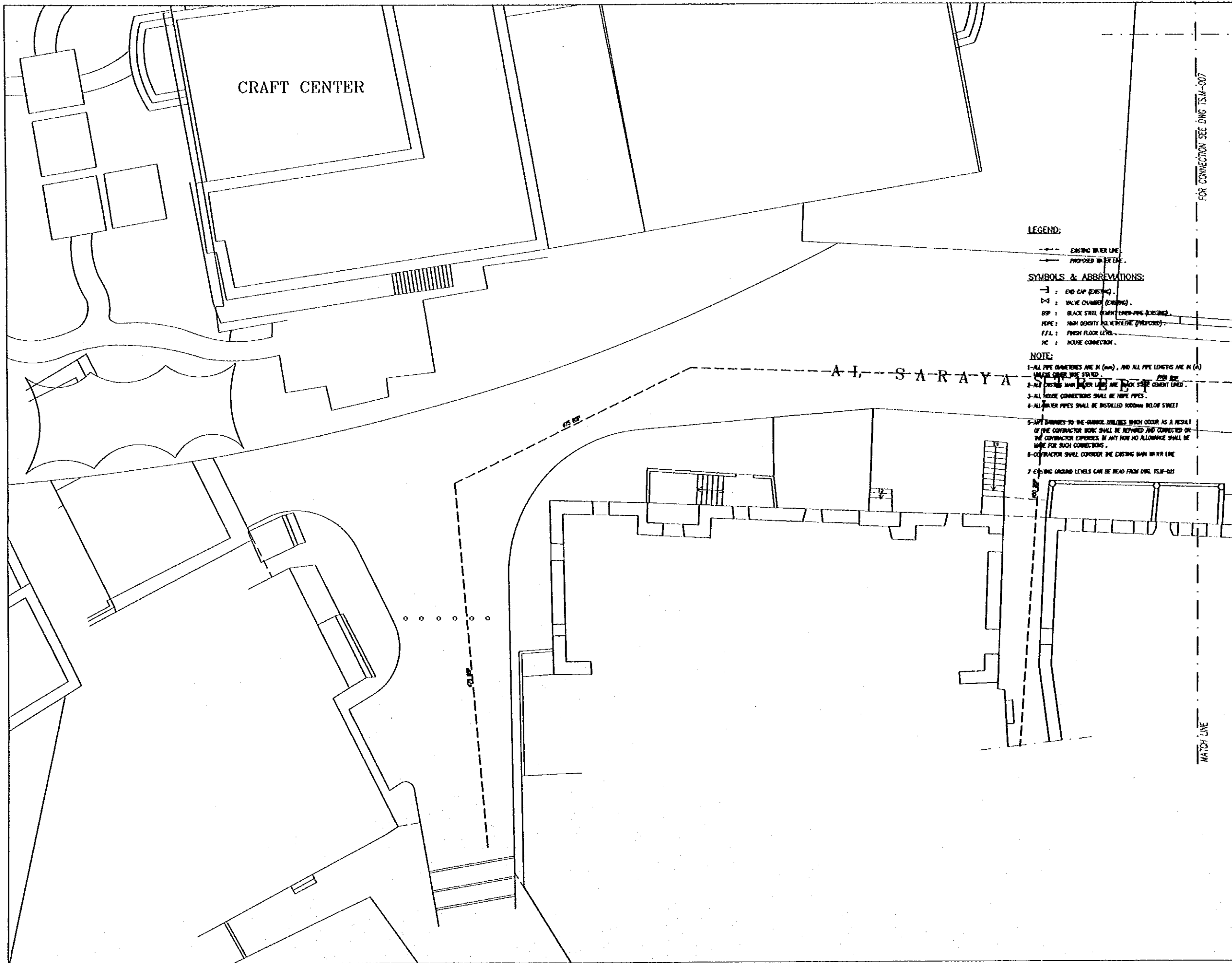
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WATER DISTRIBUTION LAYOUT-7

Drawing Title:
 Scale: 1/100
 Drawing No.: T.S.M-007



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
Tourist Street

Note:
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LEGEND:
--- EXISTING WATER LINE
--- PROPOSED WATER LINE

SYMBOLS & ABBREVIATIONS:
-3 : END CAP (EXISTING)
D< : VALVE CHAMBER (EXISTING)
BSP : BLACK STEEL CEMENT LINED PIPE (EXISTING)
HDPE : HIGH DENSITY POLYETHYLENE (PROPOSED)
F.F.L. : FINISH FLOOR LEVEL
HC : HOUSE CONNECTION

NOTE:
1-ALL PIPE DIAMETERS ARE IN (mm), AND ALL PIPE LENGTHS ARE IN (m) UNLESS OTHERWISE STATED.
2-ALL EXISTING MAIN WATER LINES ARE BLACK STEEL CEMENT LINED.
3-ALL HOUSE CONNECTIONS SHALL BE HDPE PIPES.
4-ALL WATER PIPES SHALL BE INSTALLED 1000mm BELOW STREET
5-ANY DAMAGES TO THE SUBSOIL UTILITIES WHICH OCCUR AS A RESULT OF THE CONTRACTOR WORK SHALL BE REPAIRED AND CORRECTED ON THE CONTRACTOR EXPENSES. IN ANY HOW NO ALLOWANCE SHALL BE MADE FOR SUCH CONNECTIONS.
6-CONTRACTOR SHALL CONSIDER THE EXISTING MAIN WATER LINE
7-EXISTING GROUND LEVELS CAN BE READ FROM DWG. TSM-021

LEGEND:
--- EXISTING WATER LINE
--- PROPOSED WATER LINE

SYMBOLS & ABBREVIATIONS:
-3 : END CAP (EXISTING)
D< : VALVE CHAMBER (EXISTING)
BSP : BLACK STEEL CEMENT LINED PIPE (EXISTING)
HDPE : HIGH DENSITY POLYETHYLENE (PROPOSED)
F.F.L. : FINISH FLOOR LEVEL
HC : HOUSE CONNECTION

NOTE:
1-ALL PIPE DIAMETERS ARE IN (mm), AND ALL PIPE LENGTHS ARE IN (m) UNLESS OTHERWISE STATED.
2-ALL EXISTING MAIN WATER LINES ARE BLACK STEEL CEMENT LINED.
3-ALL HOUSE CONNECTIONS SHALL BE HDPE PIPES.
4-ALL WATER PIPES SHALL BE INSTALLED 1000mm BELOW STREET
5-ANY DAMAGES TO THE SUBSOIL UTILITIES WHICH OCCUR AS A RESULT OF THE CONTRACTOR WORK SHALL BE REPAIRED AND CORRECTED ON THE CONTRACTOR EXPENSES. IN ANY HOW NO ALLOWANCE SHALL BE MADE FOR SUCH CONNECTIONS.
6-CONTRACTOR SHALL CONSIDER THE EXISTING MAIN WATER LINE
7-EXISTING GROUND LEVELS CAN BE READ FROM DWG. TSM-021

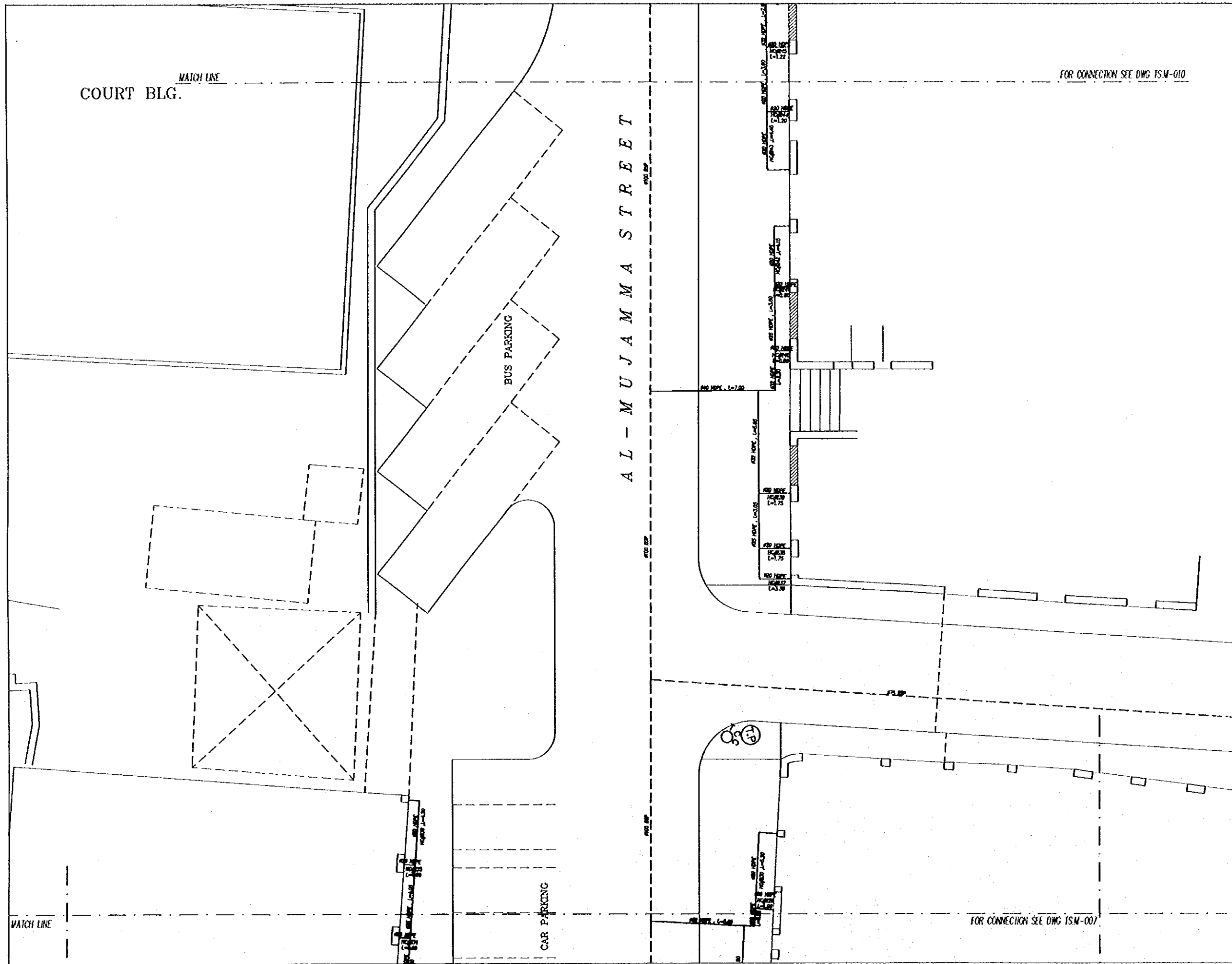
KEYPLAN

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Japan International Cooperation Agency (JICA)
JICA Study Team:
Joint Venture of
Pacific Consultants International and
Yamasita Sekkei Inc.
Subcontracted Local Consultant:

consolidated consultants
engineering & architecture
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WATER DISTRIBUTION LAYOUT-8
Drawing Title:

Scale: 1/100
Drawing No.: TSM-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:
 Korak Tourism Development Project
 Tourist Street

Note:
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LEGEND:
 - - - EXISTING WATER LINE.
 ——— PROPOSED WATER LINE.

SYMBOLS & ABBREVIATIONS:
 — : END CAP (EXISTING).
 > : VALVE CHAMBER (EXISTING).
 BSP : BLACK STEEL CEMENT LINED PIPE (EXISTING).
 HPE : HIGH DENSITY POLYETHYLENE (PROPOSED).
 FFL : FINISH FLOOR LEVEL.
 HC : HOUSE CONNECTION.

NOTE:
 1- ALL PIPE DIMENSIONS ARE IN (mm), AND ALL PIPE LENGTHS ARE IN (m) UNLESS OTHER UNITS STATED.
 2- ALL EXISTING MAIN WATER LINES ARE BLACK STEEL CEMENT LINED.
 3- ALL HOUSE CONNECTIONS SHALL BE HPE PIPES.
 4- ALL WATER PIPES SHALL BE INSTALLED 1000mm BELOW SWEEP.
 5- ANY DAMAGES TO THE SUBSOIL UTILITIES WHICH OCCUR AS A RESULT OF THE CONTRACTOR WORK SHALL BE REPAIRED AND CORRECTED ON THE CONTRACTOR EXPENSES. IN ANY HOW NO ALLOWANCE SHALL BE MADE FOR SUCH CONNECTIONS.
 6- CONTRACTOR SHALL CONSIDER THE EXISTING MAIN WATER LINE.
 7- EXISTING GROUND LEVELS CAN BE READ FROM DWG. TSM-001.

KEY PLAN

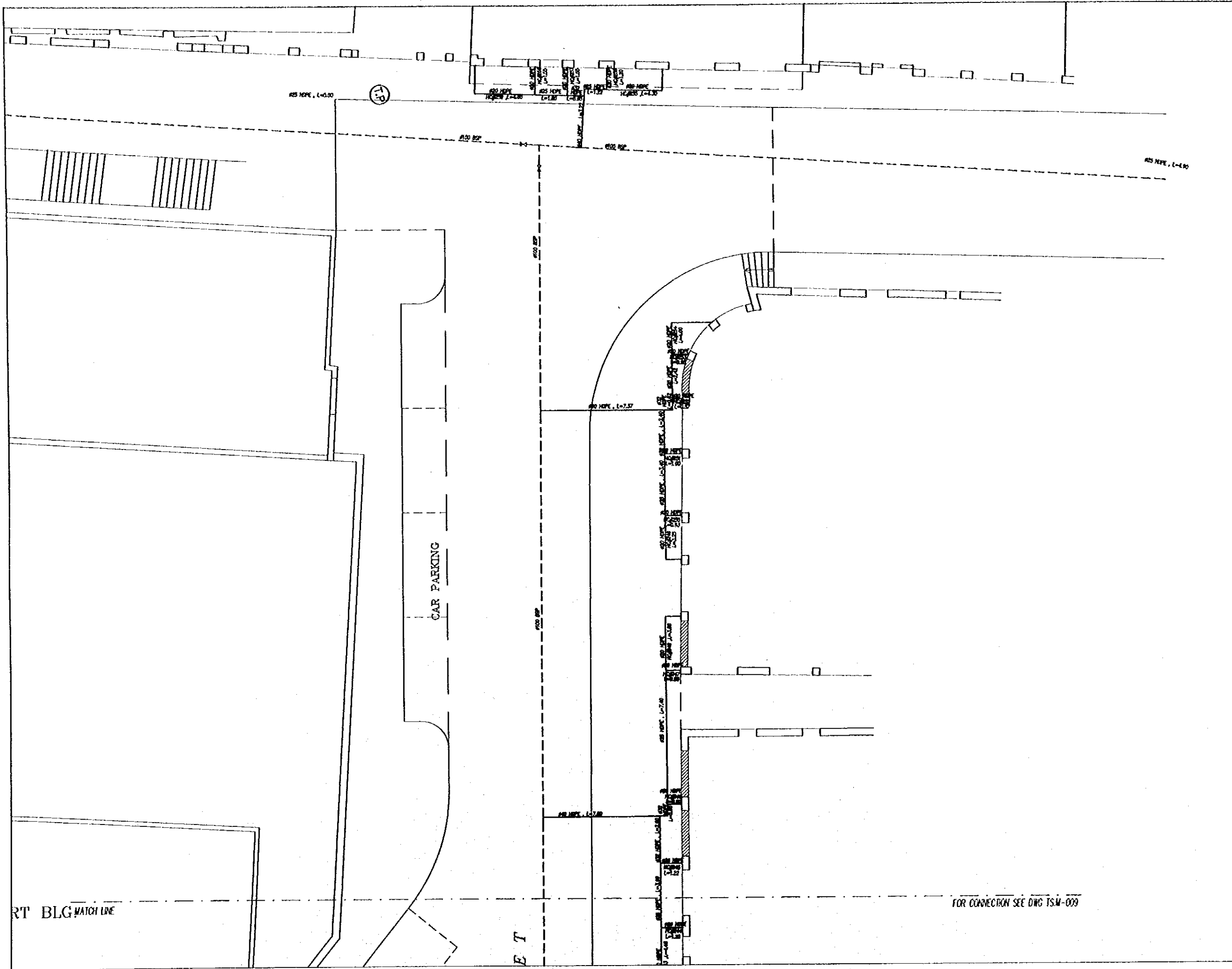
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 JICA Study Team:
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Subcontracted Local Consultant:

WATER DISTRIBUTION LAYOUT-9

Drawing Title:

Scale: 1/100 Drawing No.: TSM-009



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
Tourist Street

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LEGEND:
--- EXISTING WATER LINE
--- PROPOSED WATER LINE

SYMBOLS & ABBREVIATIONS:
→ : D/D CAP (EXISTING)
v : VALVE CHAMBER (EXISTING)
BSP : BLACK STEEL CEMENT LINED PIPE (EXISTING)
HDP : HIGH DENSITY POLYETHYLENE (PROPOSED)
F.F.L. : FRESH FLOOR LEVEL
HC : HOUSE CONNECTION

NOTE:
1- ALL PIPE DIAMETERS ARE IN (mm), AND ALL PIPE LENGTHS ARE IN (m) UNLESS OTHERWISE STATED.
2- ALL EXISTING MAIN WATER LINES ARE BLACK STEEL CEMENT LINED.
3- ALL HOUSE CONNECTIONS SHALL BE HDP PIPES.
4- ALL WATER PIPES SHALL BE INSTALLED 1000mm BELOW STREET
5- ANY DAMAGES TO THE SURFAC/ UTILITIES WHICH OCCUR AS A RESULT OF THE CONSTRUCTION WORK SHALL BE REPAIRED AND CORRECTED ON THE CONTRACTOR EXPENSES. IN ANY HOW NO ALLOWANCE SHALL BE MADE FOR SUCH CONNECTIONS.
6- CONTRACTOR SHALL CONSIDER THE EXISTING MAIN WATER LINE
7- EXISTING GROUND LEVELS CAN BE READ FROM DWG TSM-001

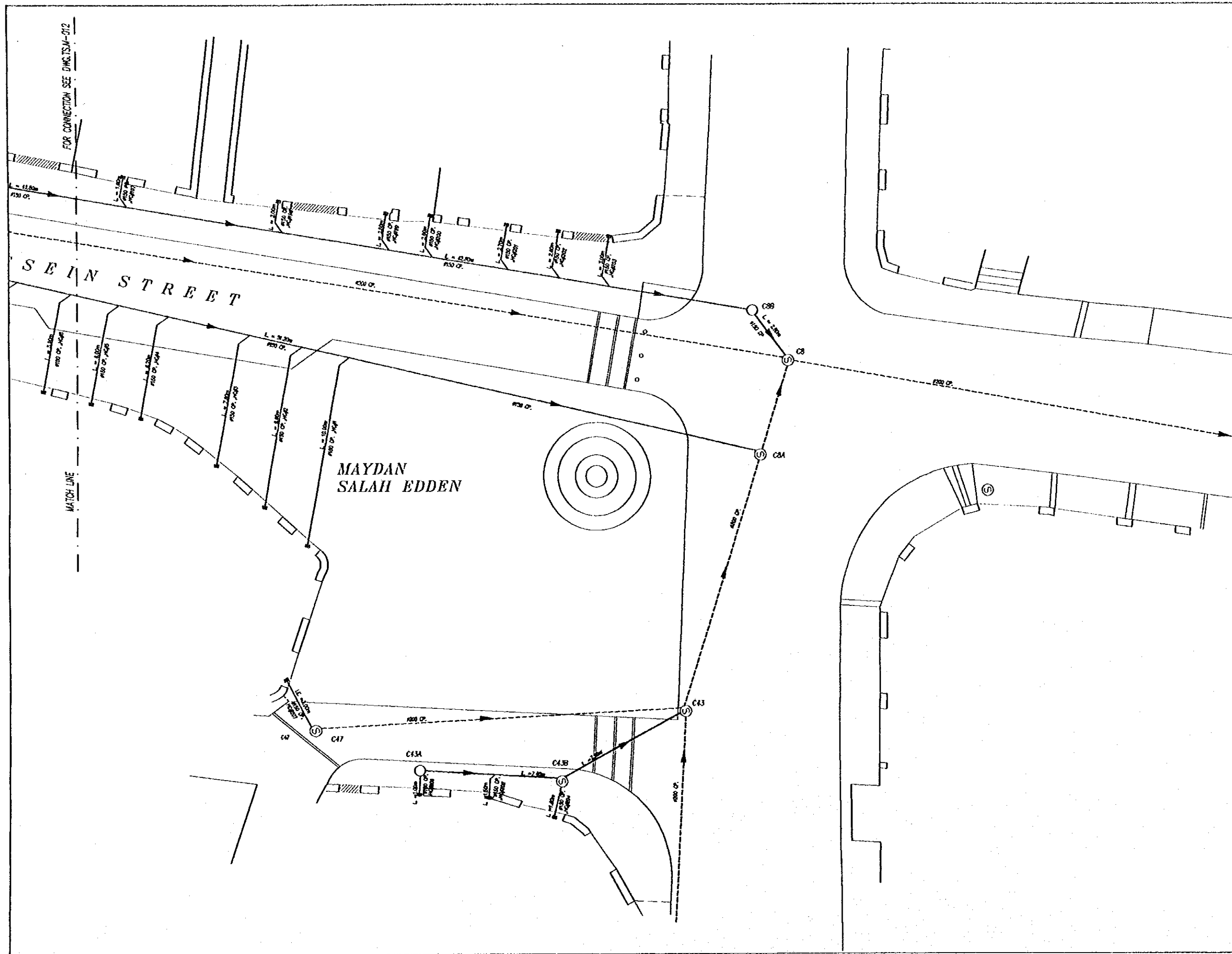
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JICA Study Team:
Joint Venture of Pacific Consultants International and Yamasita Sekkei Inc.
Subcontracted Local Consultant:

consolidated consultants
engineering & environment
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WATER DISTRIBUTION LAYOUT-10
Drawing Title:

Scale: 1/100 Drawing No.: TSM-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
Tourist Street

Note:
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LEGEND:

- - - EXISTING SEWER LINE
- PROPOSED SEWER LINE
- MANHOLE
- ⊙ EXISTING MANHOLE

ABBREVIATIONS:

- E : INVERT LEVEL
- R : TOP LEVEL
- CP : CONCRETE PIPE
- S : SLOPE %
- L : LENGTH OF PIPE (m)
- MC : RAISE CONNECTION
- MV : MANHOLE

NOTE:

- 1- ALL PIPE DIAMETERS ARE IN (mm) & ALL PIPE LENGTHS ARE IN (m) UNLESS OTHERWISE STATED
- 2- ALL EXISTING SEWER LINE ARE OF 400mm
- 3- ALL PROPOSED MAIN SEWER LINES ARE OF 400mm
- 4- CONTRACTOR SHALL COORDINATE ALL SURFACE UTILITIES BEFORE INSTALLATION. HE SHALL SUBMIT COORDINATION SHEET SHOWING PLUNGING SCHEDULE ALL UTILITIES TO THE ENGINEER FOR APPROVAL.
- 5- ANY DAMAGES TO THE SURFACE UTILITIES WHICH OCCUR AS A RESULT OF THE CONTRACTOR WORK SHALL BE REPAIRED AND COVERED BY THE CONTRACTOR EXPENSES. IN ANY HOW NO ALLOWANCE SHALL BE MADE FOR SUCH CONNECTIONS.
- 6- CONTRACTOR SHALL CONSIDER THE EXISTING MAIN SEWER LINE AS A REFERENCE.
- 7- EXISTING GROUND LEVELS CAN BE READ FROM DWG. TSM-011

KEY PLAN

Designed by:
Japan International Cooperation Agency (JICA)

JICA Study Team:
Joint Venture of
Pacific Consultants International and
Yamashita Seki & Co. Inc.

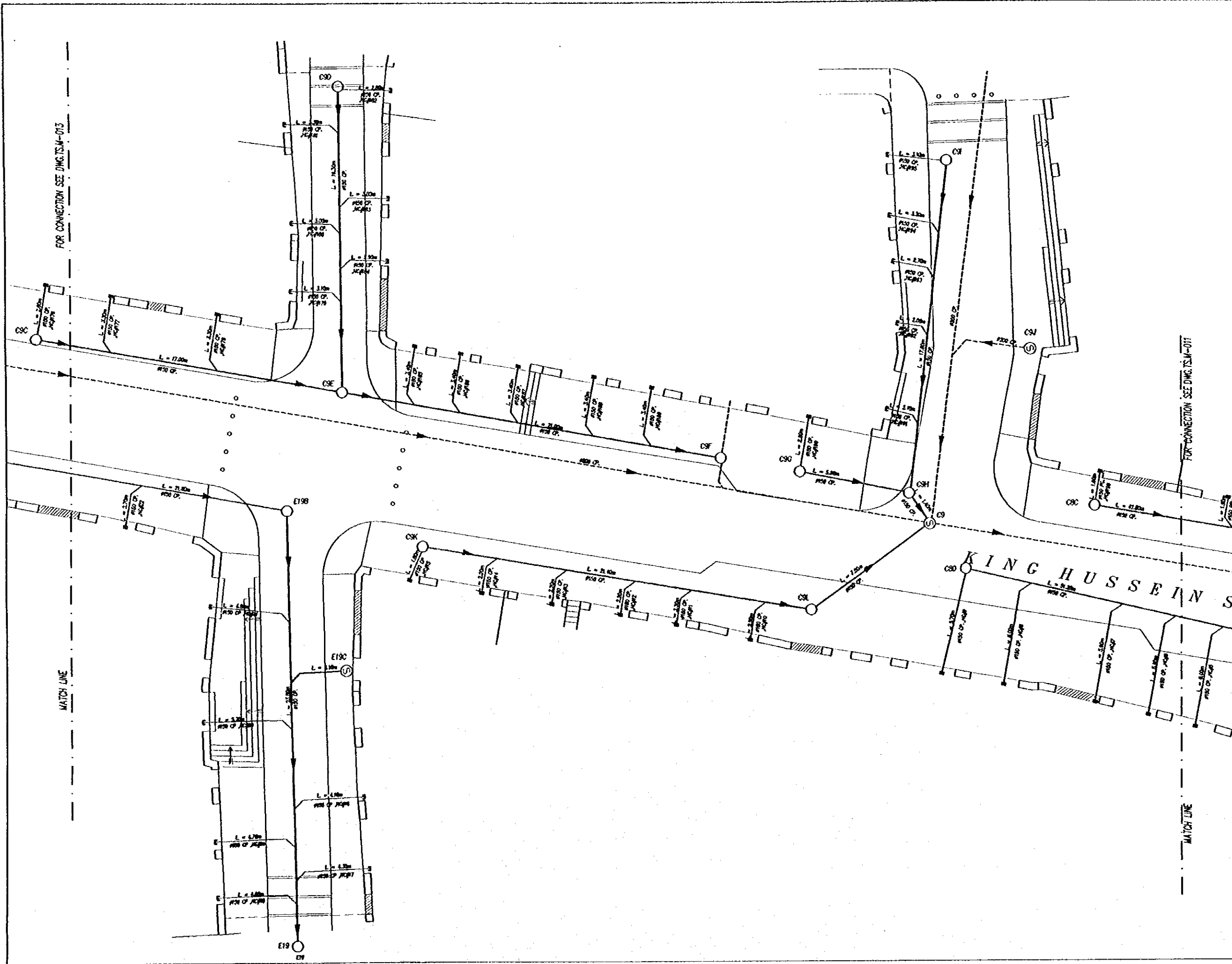
Subcontracted Local Consultant:

consolidated consultants
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DRAINAGE LAYOUT-1

Scale: 1:100 ON A1

Drawing No.: TSM-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
Tourist Street

Note:
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LEGEND:

- EXISTING SEWER LINE
- PROPOSED SEWER LINE
- MANHOLE
- ⊙ EXISTING MANHOLE

ABBREVIATIONS:

- R : INVERT LEVEL
- T : TOP LEVEL
- CP : CONCRETE PIPE
- S : SLOPE %
- L : LENGTH OF PIPE (m)
- MC : HOUSE CONNECTION
- MN : MANHOLE

NOTE:

- 1- ALL PIPE DIAMETERS ARE IN (mm) & ALL PIPE LENGTHS ARE IN (m) UNLESS OTHERWISE STATED
- 2- ALL EXISTING SEWER LINE ARE CP 150
- 3- ALL PROPOSED SEWER LINES ARE CP 150
- 4- CONTRACTOR SHALL COORDINATE ALL SUBSURFACE UTILITIES BEFORE INSTALLATION. HE SHALL SUBMIT COORDINATION SHOP DRAWING PLANS SHOWING ALL UTILITIES TO THE ENGINEER FOR APPROVAL.
- 5- ANY DAMAGES TO THE SURFACE UTILITIES WHICH OCCUR AS A RESULT OF THE CONTRACTOR WORK SHALL BE REPAIRED AND COMPENSATION OF THE CONTRACTOR EXPENSES, IN ANY HOW NO ALLOWANCE SHALL BE MADE FOR SUCH CORRECTIONS.
- 6- CONTRACTOR SHALL COORDINATE THE EXISTING MAIN SEWER LINE AS A REFERENCE.
- 7- EXISTING GROUND LEVELS CAN BE READ FROM DWG. T.S.M-011

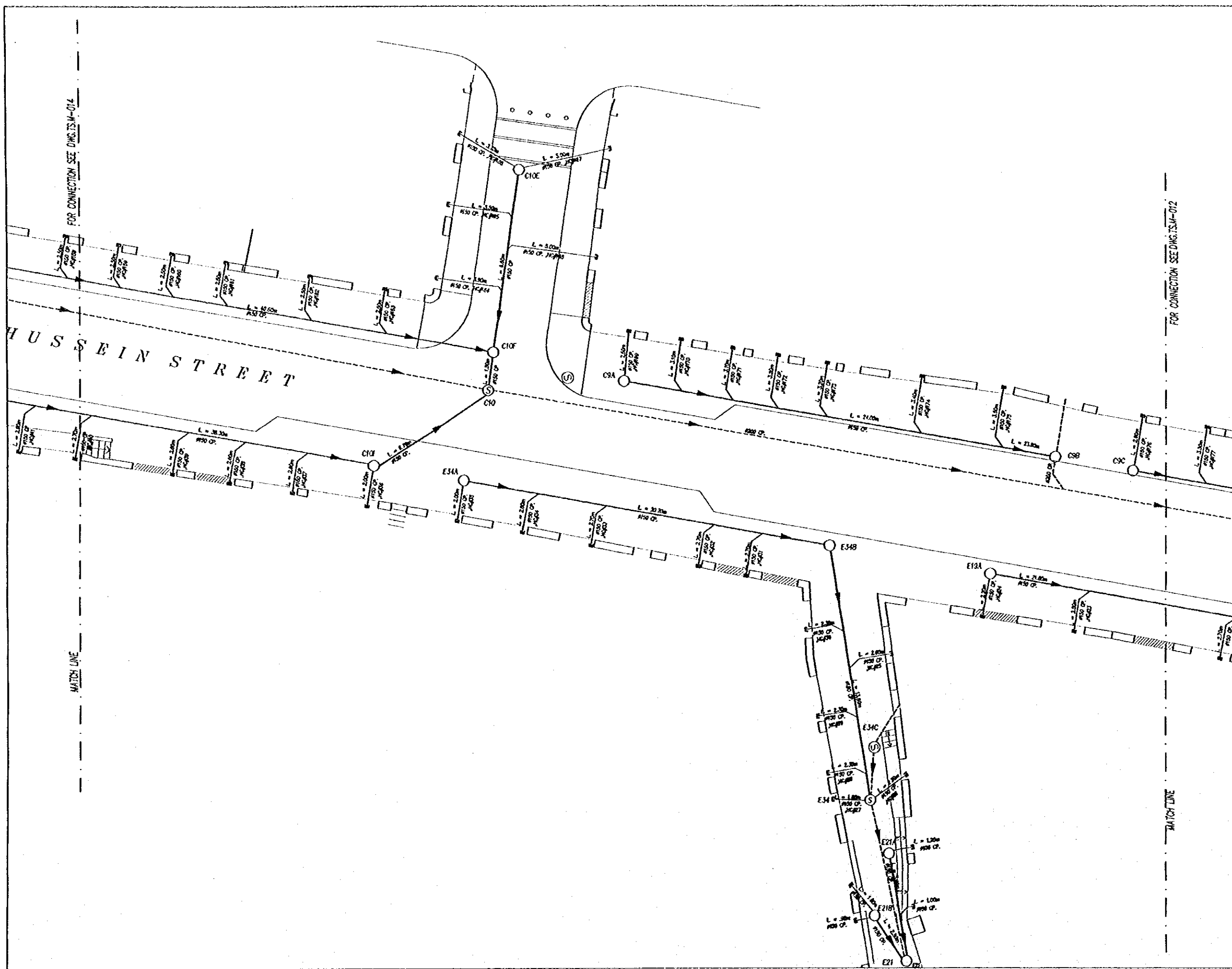
KEYPLAN

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JICA Study Team:
Joint Venture of Pacific Consultants International and Yamashita Soteland Inc.
Subcontracted Local Consultant:

consolidated consultants
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Tel. 9633277 - Fax 963238 - AMM - JORD

DRAINAGE LAYOUT-2
Drawing Title:

Scale: 1:100 ON A1
Drawing No.: T.S.M-012



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
 Tourist Street

Note:
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LEGEND:

- EXISTING SEWER LINE
- PROPOSED SEWER LINE
- MANHOLE
- ⊙ EXISTING MANHOLE

ABBREVIATIONS:

- R : INVERT LEVEL
- RL : TOP LEVEL
- CP : CONCRETE PIPE
- S : SLOPE %
- L : LENGTH OF PIPE (m)
- MC : HOUSE CONNECTION
- MY : MANHOLE

NOTE:

- 1- ALL PIPE DIAMETERS ARE IN (mm) & ALL PIPE LENGTHS ARE IN (m) UNLESS OTHER BE SPECIFIED
- 2- ALL EXISTING SEWER LINE ARE CP 150mm
- 3- ALL PROPOSED MAIN SEWER LINES ARE CP 150
- 4- CONTRACTOR SHALL COORDINATE ALL SURFACE UTILITIES BEFORE INSTALLATION HE SHALL SUBMIT COORDINATION DRAWING SHOWING ALL UTILITIES TO BE CHECKED FOR APPROVAL
- 5- ANY DAMAGES TO THE SURFACE UTILITIES WHICH OCCUR AS A RESULT OF THE CONTRACTOR WORK SHALL BE REPAIRED AND CORRECTED ON THE CONTRACTOR EXPENSES IN ANY HOW NO ALLOWANCE SHALL BE MADE FOR SUCH CORRECTIONS
- 6- CONTRACTOR SHALL CONSIDER THE EXISTING MAIN SEWER LINE AS A REFERENCE
- 7- EXISTING GROUND LEVELS CAN BE READ FROM DNG. TSM-012

KEYPLAN

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 JICA Study Team:
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 Pacific Consultants International and
 Yamashita Seki Inc.

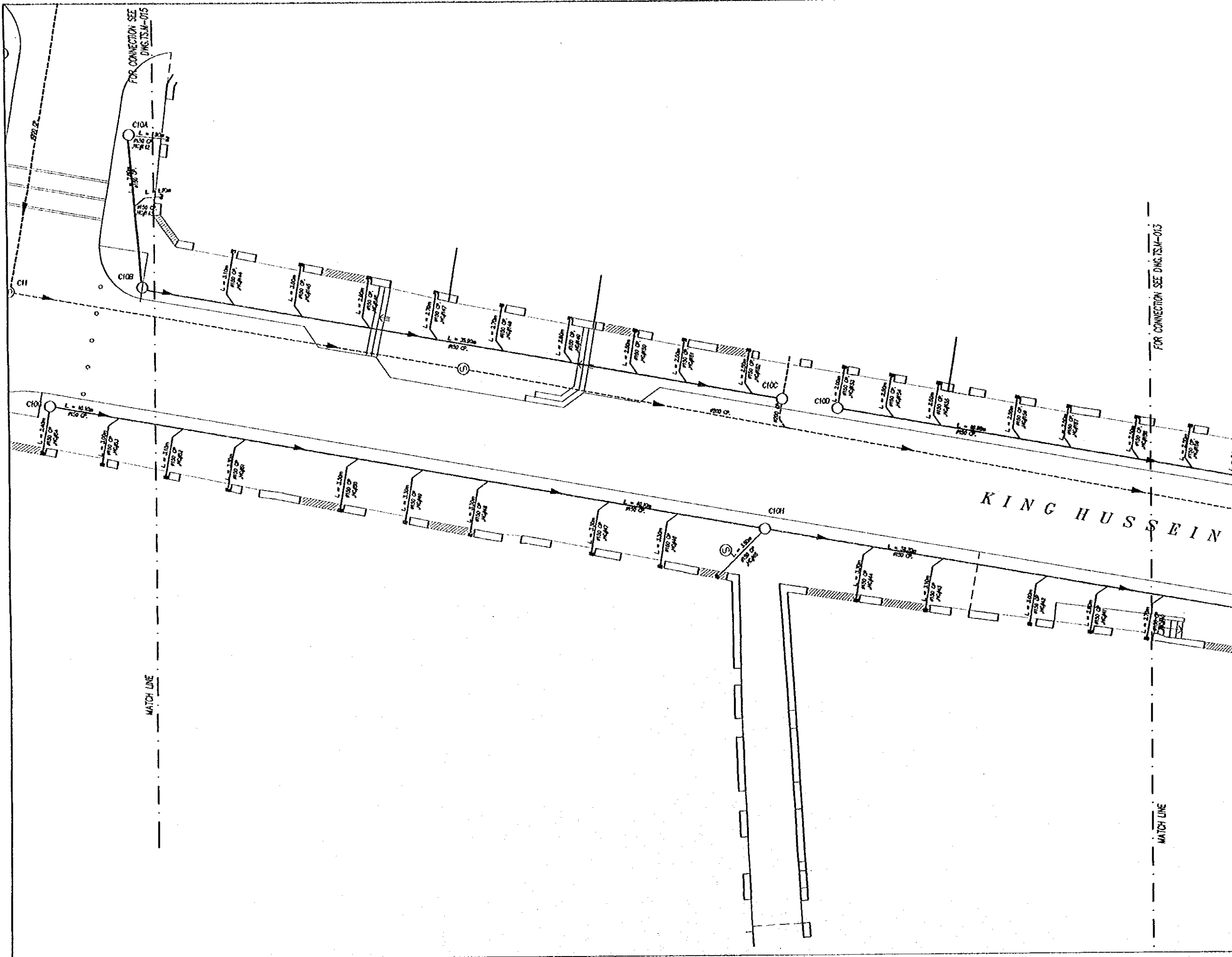
Subcontracted Local Consultant:

consolidated consultants
 engineering & environment
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DRAINAGE LAYOUT-3

Scale: 1:100 ON A1

Drawing No.: TSM-013



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
Tourist Street

Note:
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LEGEND:

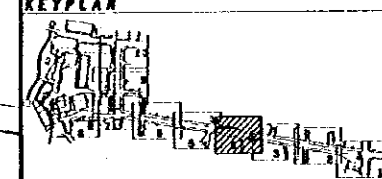
- EXISTING SEWER LINE
- PROPOSED SEWER LINE
- MANHOLE
- ⊙ EXISTING MANHOLE

ABBREVIATIONS:

- R : RISE LEVEL
- X : TOP LEVEL
- CP : COULURE PIPE
- S : SLOPE %
- L : LENGTH OF PIPE (m)
- MC : RAISE CONNECTOR
- MH : MANHOLE

NOTE:

- 1- ALL PIPE DIAMETERS ARE IN (mm) & ALL PIPE LENGTHS ARE IN (m) UNLESS OTHERWISE STATED
- 2- ALL EXISTING SEWER LINE ARE CP #200
- 3- ALL PROPOSED SEWER LINES ARE CP #150
- 4- CONTRACTOR SHALL COORDINATE ALL SURFACE UTILITIES BEFORE INSTALLATION. HE SHALL SUBMIT COORDINATION SHOP DRAWING PLANS SHOWING ALL UTILITIES TO THE ENGINEER FOR APPROVAL.
- 5- ANY DAMAGES TO THE SURFACE UTILITIES WHICH OCCUR AS A RESULT OF THE CONTRACTOR WORK SHALL BE REPAIRED AND CORRECTED AT THE CONTRACTOR EXPENSES. IN ANY CASE NO ALLOWANCE SHALL BE MADE FOR SUCH CORRECTIONS.
- 6- CONTRACTOR SHALL CONSIDER THE EXISTING MAIN SEWER LINE AS A REFERENCE.
- 7- EXISTING GROUND LEVELS CAN BE READ FROM DNG.TS.M-001



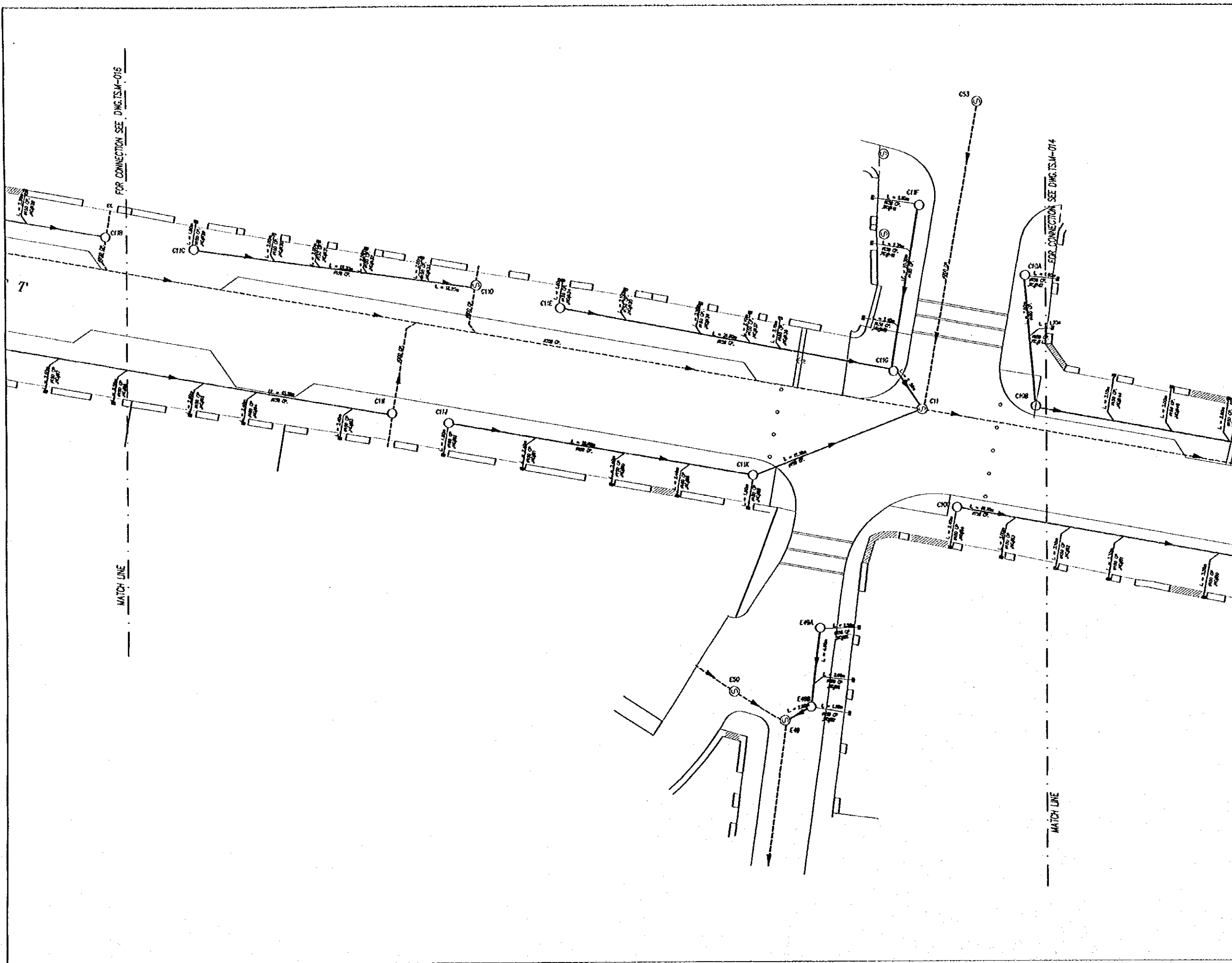
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JICA Study Team:
Joint Venture of
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Yamashita Sekiel Inc.
Subcontracted Local Consultant:



DRAINAGE LAYOUT-4

Drawing Title

Scale: 1:100 ON A1
Drawing No: TS.M-014



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
Tourist Street

Note:
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--- EXISTING SEWER LINE
--- PROPOSED SEWER LINE
○ MANHOLE
⊙ EXISTING MANHOLE

ABBREVIATIONS:
I : INVERT LEVEL
R : TOP LEVEL
CP : CONCRETE PIPE
S : SLOPE %
L : LENGTH OF PIPE (m)
HC : HOUSE CONNECTION
MH : MANHOLE

NOTE:
1- ALL PIPE DIAMETERS ARE IN (mm) & ALL PIPE LENGTHS ARE IN (m) UNLESS OTHER WISE STATED
2- ALL EXISTING SEWER LINE ARE CP 400
3- ALL PROPOSED MAIN SEWER LINES ARE CP 450
4- CONTRACTOR SHALL COORDINATE ALL SUBSURFACE UTILITIES BEFORE INSTALLATION. HE SHALL SUBMIT COORDINATION SHEET DRAWING PLANS SHOWING ALL UTILITIES TO THE ENGINEER FOR APPROVAL.
5- ANY DAMAGES TO THE SUBSOIL UTILITIES WHICH OCCUR AS A RESULT OF THE CONTRACTOR WORK SHALL BE REPAIRED AND CORRECTED ON THE CONTRACTOR EXPENSES. IN ANY HOW NO ALLOWANCE SHALL BE MADE FOR SUCH CORRECTIONS.
6- CONTRACTOR SHALL CONSIDER THE EXISTING MAIN SEWER LINE AS A REFERENCE.
7- EXISTING GROUND LEVELS CAN BE READ FROM D.M.C.T.S.M-015

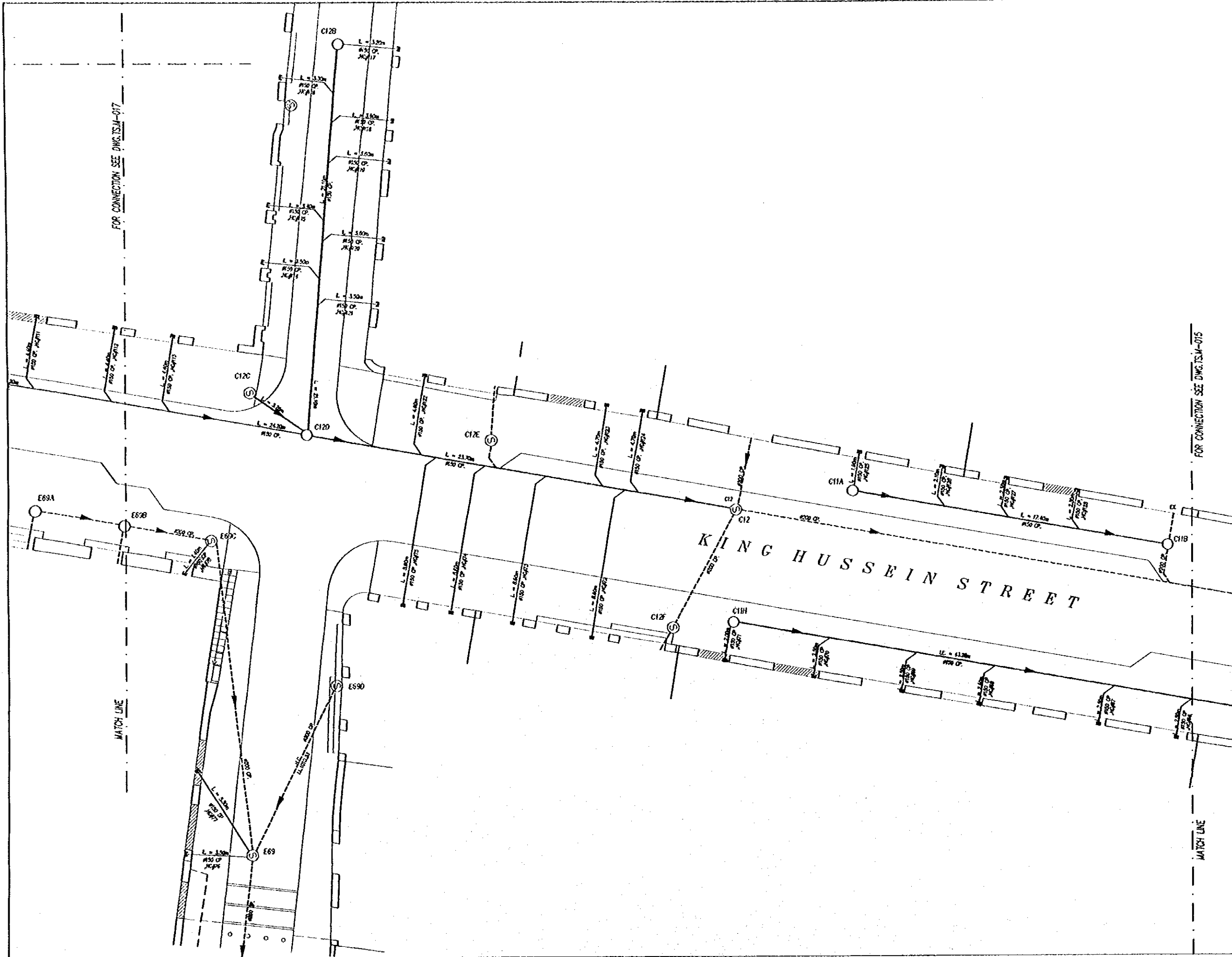
KEY PLAN

Designed by:
Japan International Cooperation Agency (JICA)
JICA Study Team:
Joint Venture of Pacific Consultants International and Yamashita Sekihei Inc.
Subcontracted Local Consultant:

consolidated consultants
engineering & environment
Tel: 0115771 - Fax: 0115780 - JARINE - JORDAN

DRAINAGE LAYOUT-5
Drawing Title

Scale: 1:100 ON A1
Drawing No.: T.S.M-015



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
Tourist Street

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.
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LEGEND:

- EXISTING SEWER LINE
- - - PROPOSED SEWER LINE
- MANHOLE
- ⊙ EXISTING MANHOLE

ABBREVIATIONS:

- E : NEXT LEVEL
- IL : TOP LEVEL
- CP : CONCRETE PIPE
- S : SLOPE %
- L : LENGTH OF PIPE (m)
- HC : HOUSE CONNECTION
- SH : MANHOLE

NOTE:

- 1- ALL PIPE DIAMETERS ARE IN (mm) & ALL PIPE LENGTHS ARE IN (m) UNLESS OTHER BEING STATED
- 2- ALL EXISTING SEWER LINE ARE CP 400.
- 3- ALL PROPOSED MAIN SEWER LINES ARE CP 450
- 4- CONTRACTOR SHALL COORDINATE ALL SUBSURFACE UTILITIES BEFORE INSTALLATION. HE SHALL SUBMIT COORDINATION SHOP DRAWING PLANS SHOWING ALL UTILITIES TO THE ENGINEER FOR APPROVAL.
- 5- ANY DAMAGES TO THE EXISTING UTILITIES WHICH OCCUR AS A RESULT OF THE CONTRACTOR WORK SHALL BE REPAIRED AND CORRECTED ON THE CONTRACTOR'S EXPENSES. IN ANY HOW NO ALLOWANCE SHALL BE MADE FOR SUCH CORRECTIONS.
- 6- CONTRACTOR SHALL CONSIDER THE EXISTING MAIN SEWER LINE AS A REFERENCE.
- 7- EXISTING GROUND LEVELS CAN BE READ FROM DRG. IS-M-011

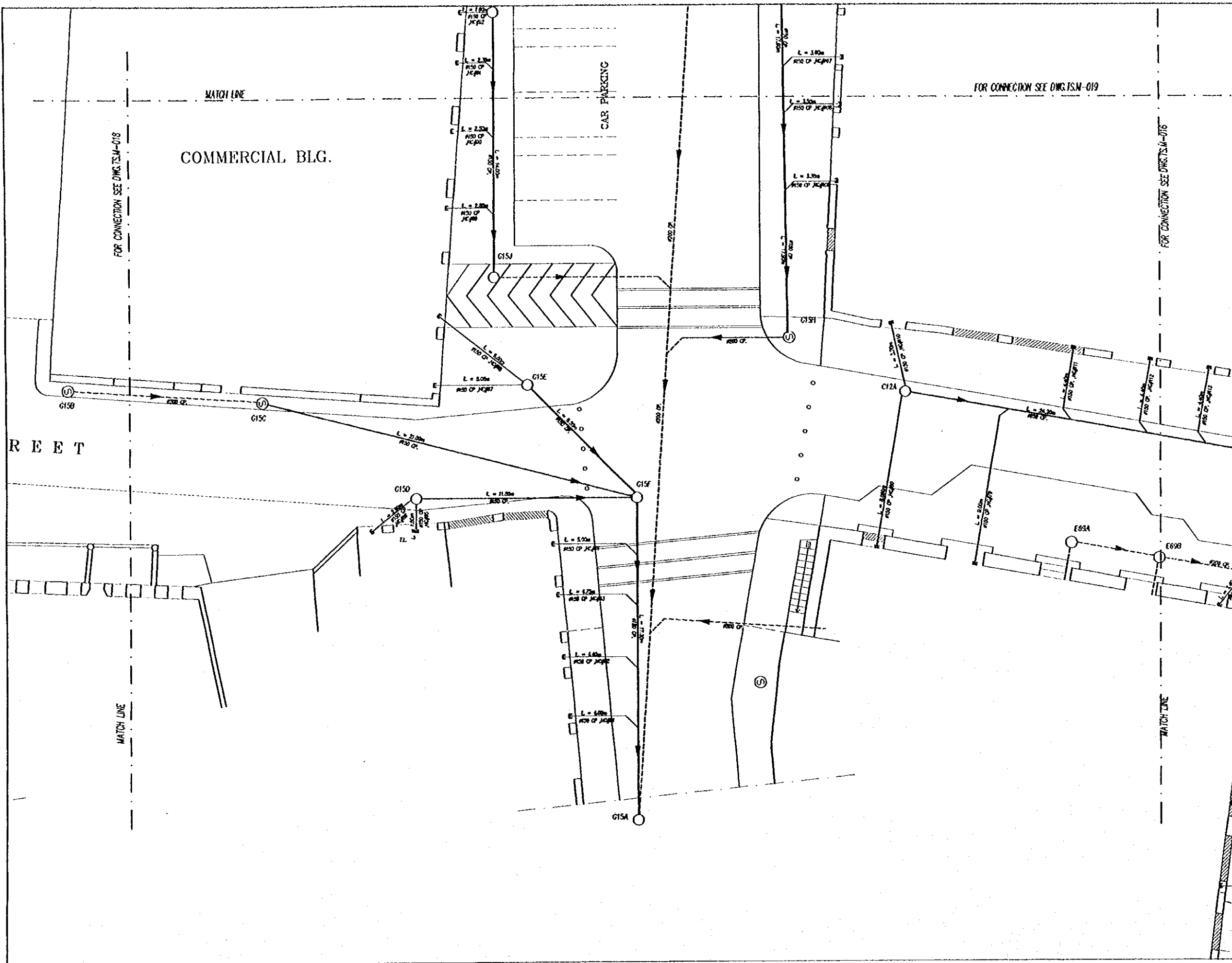
KEY PLAN

Designed by:
Japan International Cooperation Agency (JICA)
JICA Study Team:
Joint Venture of Pacific Consultants International and Yamashita Satoei Inc.
Subcontracted Local Consultant:

consolidated consultants
engineering & environment
Tel: 011227 - Fax: 011238 - 2600 - 2600

DRAINAGE LAYOUT-6
Drawing No.

Scale: 1:100 ON A1
Drawing No.: TSM-016



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
Tourist Street

Note:
This detailed design has been prepared 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.

LEGEND:

- - - EXISTING SEWER LINE
- - - PROPOSED SEWER LINE
- MANHOLE
- ⊙ EXISTING MANHOLE

ABBREVIATIONS:

- E : INVERT LEVEL
- N : RCP LEVEL
- CP : CONCRETE PIPE
- S : SLOPE %
- L : LENGTH OF PIPE (m)
- HC : HOUSE CONNECTION
- M : MANHOLE

NOTE:

- 1- ALL PIPE DIAMETERS ARE IN (mm) & ALL PIPE LENGTHS ARE IN (m) UNLESS OTHER WISE STATED
- 2- ALL EXISTING SEWER LINE ARE OF 150mm
- 3- ALL PROPOSED MAIN SEWER LINES ARE OF 150
- 4- CONTRACTOR SHALL COORDINATE ALL SURFACE UTILITIES BEFORE INSTALLATION. HE SHALL SUBMIT COORDINATION SHOP DRAWING PLANS SHOWING ALL UTILITIES TO THE ENGINEER FOR APPROVAL.
- 5- ANY DAMAGES TO THE SURFACE UTILITIES WHICH OCCUR AS A RESULT OF THE CONTRACTOR WORK SHALL BE REPAIRED AND CORRECTED ON THE CONTRACTOR EXPENSES. IN ANY HOW NO ALLOWANCE SHALL BE MADE FOR SUCH CORRECTIONS.
- 6- CONTRACTOR SHALL CONSIDER THE EXISTING MAIN SEWER LINE AS A REFERENCE.
- 7- EXISTING GROUND LEVELS CAN BE READ FROM DWG. TSM-017

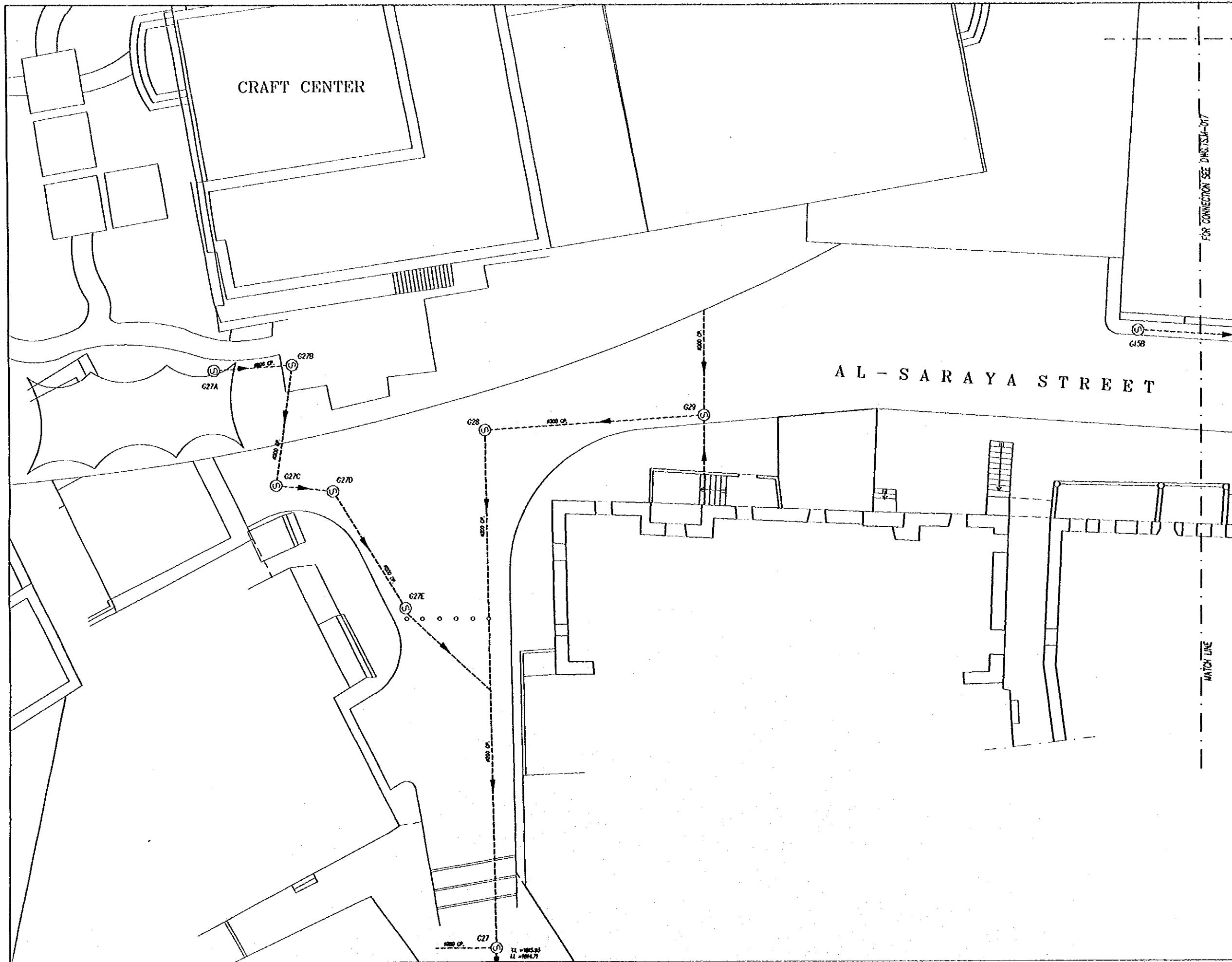
KEY PLAN

Designed by:
Japan International Cooperation Agency (JICA)
JICA Study Team:
Joint Venture of Pacific Consultants International and Yamashita Saitoh Inc.
Subcontracted Local Consultant:

consolidated consultants
Engineering & Environment
Tel: 961377 - Fax: 961386 - AMMEX - JORDAN

DRAINAGE LAYOUT-7
Drawing Title

Scale: 1:100 ON A1
Drawing No.: TSM-017



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
 Tourist Street

Note:
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LEGEND:

- EXISTING SEWER LINE
- - - - - PROPOSED SEWER LINE
- MANHOLE
- ⊙ EXISTING MANHOLE

ABBREVIATIONS:

- E : INVERT LEVEL
- R : TOP LEVEL
- CP : CONCRETE PIPE
- S : SLOPE %
- L : LENGTH OF PIPE (m)
- PC : HOSE CONNECTION
- MH : MANHOLE

NOTE:

- 1- ALL PIPE DIAMETERS ARE IN (mm) & ALL PIPE LENGTHS ARE IN (m) UNLESS OTHER SIZE STATED
- 2- ALL EXISTING SEWER LINE ARE OF 400mm
- 3- ALL PROPOSED MAIN SEWER LINES ARE OF 400mm
- 4- CONTRACTOR SHALL COORDINATE ALL SURFACE UTILITIES BEFORE INSTALLATION. HE SHALL SUBMIT COORDINATION SHOP DRAWING PLANS SHOWING ALL UTILITIES TO THE ENGINEER FOR APPROVAL.
- 5- ANY DAMAGES TO THE SURFACE UTILITIES WHICH OCCUR AS A RESULT OF THE CONTRACTOR WORK SHALL BE REPAIRED AND COVERED BY THE CONTRACTOR EXPENSES. IN ANY CASE NO ALLOWANCE SHALL BE MADE FOR SUCH CORRECTIONS.
- 6- CONTRACTOR SHALL CONSIDER THE EXISTING MAIN SEWER LINE AS A REFERENCE.
- 7- EXISTING GROUND LEVELS CAN BE FOUND FROM DWG. TSM-011

KEY PLAN

Designed by:
 Japan International Cooperation Agency (JICA)

JICA Study Team:
 Joint Venture of
 Pacific Consultants International and
 Yamashita Sedai Inc.

Subcontracted Local Consultant:

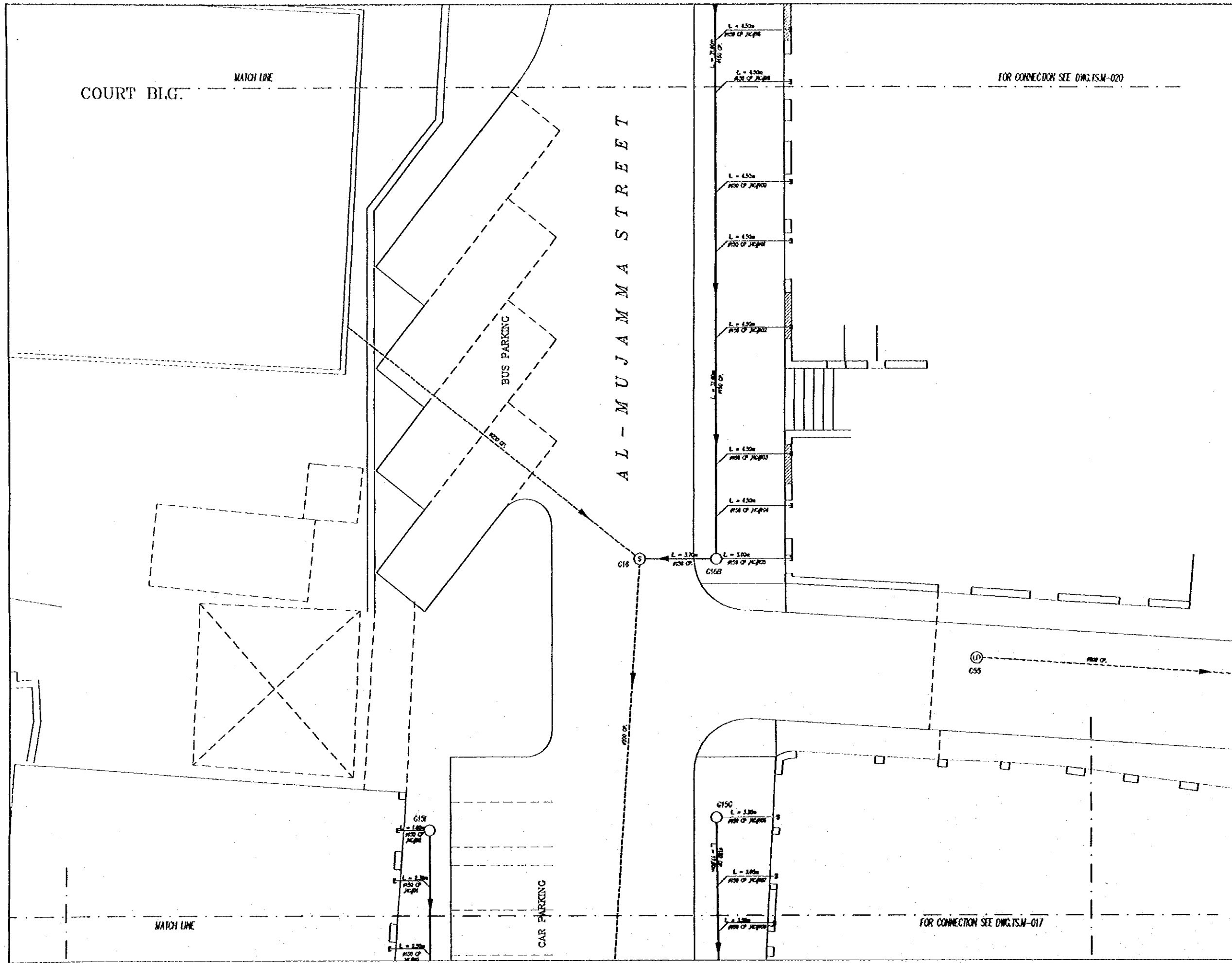
consolidated consultants
 engineering & environment
 P.O. Box 1277 - Fax: 961286 - AMMAN - JORDAN

DRAINAGE LAYOUT-8

Drawing Title:

Scale: 1:100 ON A1

Drawing No.: TSM-018



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
Tourist Street

Note:
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The copyright of this drawing rests with JICA.

LEGEND:

- EXISTING SEWER LINE
- - - PROPOSED SEWER LINE
- MANHOLE
- ⊙ EXISTING MANHOLE

ABBREVIATIONS:

- L : INVERT LEVEL
- X : TOP LEVEL
- CP : CONCRETE PIPE
- S : SLOPE %
- L : LENGTH OF PIPE (m)
- HC : HOUSE CONNECTION
- MH : MANHOLE

NOTE:

- 1-ALL PIPE DIAMETERS ARE IN (mm) & ALL PIPE LENGTHS ARE IN (m) UNLESS OTHERWISE STATED
- 2-ALL EXISTING SEWER LINE ARE CP 400
- 3-ALL PROPOSED MAIN SEWER LINES ARE CP 400
- 4- CONTRACTOR SHALL COORDINATE ALL SURFACE UTILITIES BEFORE INSTALLATION. HE SHALL SUBMIT COORDINATION SHOP DRAWING PLANS SHOWING ALL UTILITIES TO THE ENGINEER FOR APPROVAL.
- 5-ANY DAMAGES TO THE SURFACE UTILITIES WHICH OCCUR AS A RESULT OF THE CONTRACTOR WORK SHALL BE REPAIRED AND CORRECTED AT THE CONTRACTOR EXPENSES. IN ANY CASE NO ALLOWANCE SHALL BE MADE FOR SUCH CONNECTIONS.
- 6-CONTRACTOR SHALL CONSIDER THE EXISTING MAIN SEWER LINE AS A REFERENCE.
- 7-EXISTING GROUND LEVELS CAN BE READ FROM DWG. TSM-021

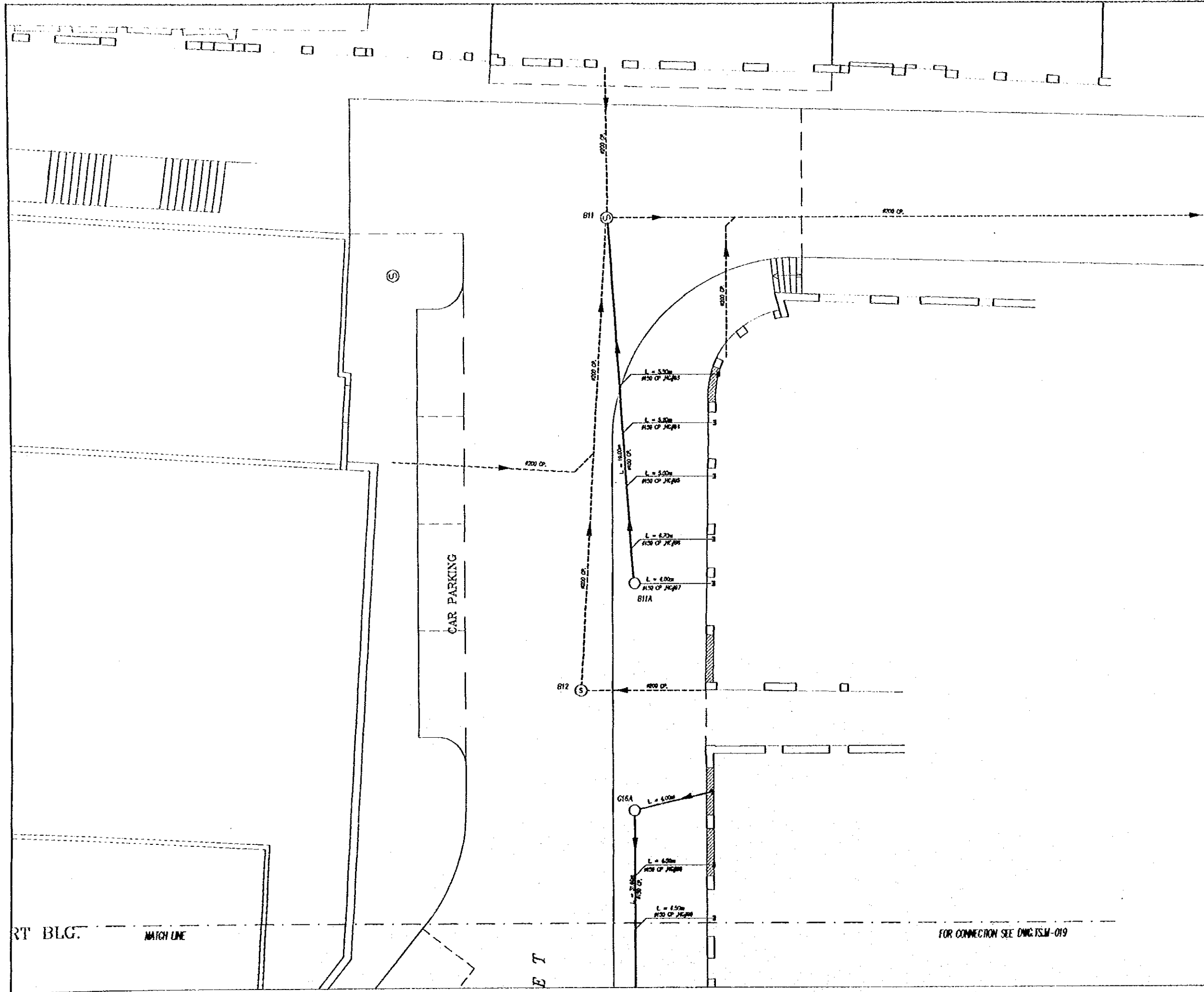
KEYPLAN

Designed by:
Japan International Cooperation Agency (JICA)
JICA Study Team:
Joint Venture of Pacific Consultants International and Yamashita Seldal Inc.
Subcontracted Local Consultant:
consolidated consultants
engineering & environment
Tel: 0112277 - Fax: 0112300 - P.O. Box: 32804

DRAINAGE LAYOUT-9

Scale: 1:100 ON A1

Drawing No.: TSM-019



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
Tourist Street

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.
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LEGEND:

- EXISTING SEWER LINE
- PROPOSED SEWER LINE
- MANHOLE
- ⊙ EXISTING MANHOLE

ABBREVIATIONS:

- R : INVERT LEVEL
- XL : XP LEVEL
- CP : CONCRETE PIPE
- S : SLOPE
- L : LENGTH OF PIPE (m)
- HC : HOUSE CONNECTION
- MH : MANHOLE

NOTE:

- 1- ALL PIPE DIAMETERS ARE IN (mm) & ALL PIPE LENGTHS ARE IN (m) UNLESS OTHER WERE STATED
- 2- ALL EXISTING SEWER LINE ARE CP 150
- 3- ALL PROPOSED MAIN SEWER LINES ARE CP 150
- 4- CONTRACTOR SHALL COORDINATE ALL SUBSURFACE UTILITIES BEFORE INSTALLATION. HE SHALL SUBMIT COORDINATION SHOP DRAWING PLANS SHOWING ALL UTILITIES TO THE ENGINEER FOR APPROVAL.
- 5- ANY DAMAGES TO THE SURFACE UTILITIES WHICH OCCUR AS A RESULT OF THE CONTRACTOR WORK SHALL BE REPAIRED AND CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSES. NO ANY HOW NO ALLOWANCE SHALL BE MADE FOR SUCH CORRECTIONS.
- 6- CONTRACTOR SHALL CONSIDER THE EXISTING MAIN SEWER LINE AS A REFERENCE.
- 7- EXISTING GROUND LEVELS CAN BE READ FROM DMC.TS.M-021

KEY PLAN

Designed by:
Japan International Cooperation Agency (JICA)
JICA Study Team:
Joint Venture of Pacific Consultants International and Yamaoka Seidai Inc.
Subcontracted Local Consultant:
consolidated consultants
engineering & environment
Tel: 011277 - Fax: 011280 - 06691 - JORDAN

DRAINAGE LAYOUT-10
Drawing No.:

Scale: 1:100 ON A1 Drawing No.: TS.M-020

MANHOLE SCHEDULE.						
NO.	COVER LEVEL	INVERT LEVEL	DEPTH (m)	SIZE (m)	SIZE (m)	REMARKS.
B11A	1017.50	1018.30	1200	#900	#600	-
B11	1016.21	1014.91	1300	#900	#600	EXISTING.
B12	1017.90	1018.20	1300	#900	#600	EXISTING.
C8A	991.01	999.85	1160	#900	#600	EXISTING.
C8B	990.74	998.70	1040	#900	#600	-
C8C	994.13	993.00	1150	#900	#600	-
C8D	994.40	993.20	1200	#900	#600	-
C8	990.74	989.82	1120	#900	#600	EXISTING.
C9A	1000.30	099.00	1300	#900	#600	-
C9B	998.62	997.37	1250	#900	#600	-
C9C	998.30	996.90	1400	#900	#600	-
C9D	997.70	996.48	1220	#900	#600	-
C9E	997.10	995.88	1420	#900	#600	-
C9F	995.59	994.38	1200	#900	#600	-
C9G	995.30	993.89	1410	#900	#600	-
C9H	995.10	993.45	1800	#900	#600	-
C9I	994.92	993.72	1200	#900	#600	-
C9J	994.75	993.68	860	800x800	#600	EXISTING.
C9K	998.63	995.74	1080	#900	#600	-
C9L	995.09	993.74	1350	#900	#600	-
C9	994.47	993.13	1290	#900	#600	EXISTING.

MANHOLE SCHEDULE.						
NO.	COVER LEVEL	INVERT LEVEL	DEPTH (m)	SIZE (m)	SIZE (m)	REMARKS.
C10A	1005.90	1004.75	1150	#900	#600	-
C10B	1005.90	1004.00	1300	#900	#600	-
C10C	1003.55	1002.10	1250	#900	#600	-
C10D	1003.15	1001.95	1200	#900	#600	-
C10E	1000.80	999.85	1150	#900	#600	-
C10F	1000.59	999.52	1070	#900	#600	-
C10G	1008.20	1004.80	1400	#900	#600	-
C10H	1003.25	1002.10	1150	#900	#600	-
C10I	1001.30	999.80	1500	#900	#600	-
C10	1000.59	999.49	1100	#600	#600	EXISTING.
C11A	1010.75	1008.93	1820	#900	#600	-
C11B	1009.80	1008.40	1400	#900	#600	-
C11C	1009.43	1007.68	1770	#900	#600	-
C11D	1008.20	1005.85	1350	#900	#600	-
C11E	1008.00	1006.70	1300	#900	#600	-
C11F	1007.20	1005.90	1300	#900	#600	-
C11G	1007.00	1005.38	1820	#900	#600	-
C11H	1011.05	1008.80	1250	#900	#600	-
C11I	1008.50	1007.13	1370	#900	#600	-
C11J	1008.45	1007.20	1250	#900	#600	-
C11K	1007.00	1005.80	1400	#900	#600	-
C11	1006.12	1004.82	1300	#900	#600	EXISTING.

MANHOLE SCHEDULE.						
NO.	COVER LEVEL	INVERT LEVEL	DEPTH (m)	SIZE (m)	SIZE (m)	REMARKS.
C12A	1014.90	1013.13	1770	#900	#600	-
C12B	1013.30	1012.10	1200	#900	#600	-
C12C	-	-	-	-	-	EXISTING.
C12D	1012.93	1011.38	1600	#900	#600	-
C12E	-	-	-	-	-	EXISTING.
C12F	1011.05	1009.80	1250	#900	#600	-
C12	1010.87	1009.80	1270	#900	#600	EXISTING.
C43A	992.80	991.74	1060	#900	#600	-
C43B	992.50	991.64	1180	#900	#600	-
C43	992.40	990.98	1440	#900	#600	EXISTING.
C47	992.90	991.27	1630	#900	#600	EXISTING.
C53	1008.20	1006.08	1120	#900	#600	EXISTING.
C56	1015.52	1014.14	1380	#900	#600	EXISTING.
E19A	999.04	998.04	1000	#900	#600	-
E19B	997.20	996.20	1000	#900	#600	-
E19C	997.22	996.00	1220	#900	#600	-
E19	996.77	995.52	1250	#900	#600	EXISTING.
E21A	999.57	998.59	980	#900	#600	-
E21B	999.43	998.45	980	#900	#600	-
E21	999.43	998.37	1080	#900	#900	EXISTING.

MANHOLE SCHEDULE.						
NO.	COVER LEVEL	INVERT LEVEL	DEPTH (m)	SIZE (m)	SIZE (m)	REMARKS.
E34A	1000.70	999.51	1190	#900	#600	-
E34B	999.30	998.83	870	800x800	#600	-
E34C	999.57	998.75	820	800x800	#600	-
E34	999.57	998.40	1080	#900	#600	EXISTING.
E49A	1005.80	1004.20	1800	#900	#600	-
E49B	1005.52	1003.80	1720	#900	#600	-
E49	1005.37	1003.70	1870	#900	#600	EXISTING.
E50	1006.80	1003.81	2780	#900	#600	EXISTING.
E69A	-	-	-	-	-	EXISTING.
E69B	-	-	-	-	-	EXISTING.
E69C	-	-	-	-	-	EXISTING.
E69D	-	-	-	-	-	EXISTING.
E69	1011.81	1010.23	1580	#900	#600	EXISTING.
G15A	1013.70	1012.04	1680	#900	#600	EXISTING.
G15B	-	-	-	-	-	EXISTING.
G15C	-	-	-	-	-	EXISTING.
G15D	1017.00	1015.22	1780	#900	#600	-

MANHOLE SCHEDULE.						
NO.	COVER LEVEL	INVERT LEVEL	DEPTH (m)	SIZE (m)	SIZE (m)	REMARKS.
G15E	1017.10	1015.20	1200	#900	#600	-
G15F	1018.10	1014.02	2080	#900	#600	-
G15G	1017.20	1016.20	1000	#900	#600	-
G15H	1018.00	1015.00	1000	#900	#600	-
G15I	1017.50	1015.80	1900	#900	#600	-
G15J	1017.50	1015.80	1900	#900	#600	-
G16A	1017.73	1016.70	1000	#900	#600	-
G16B	1017.51	1016.40	1110	#900	#600	-
G16	1017.87	1016.32	1350	#900	#600	EXISTING.
G27A	-	-	-	-	-	EXISTING.
G27B	-	-	-	-	-	EXISTING.
G27C	-	-	-	-	-	EXISTING.
G27D	-	-	-	-	-	EXISTING.
G27E	-	-	-	-	-	EXISTING.
G27	1015.93	1014.71	1220	#900	#600	EXISTING.
G28	1018.74	1018.36	1380	#900	#600	EXISTING.
G29	1480.10	1018.52	1580	#900	#600	EXISTING.

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

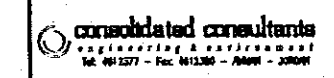
Executing Agency:
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Lower Observation Point

Note:
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.
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NOTE:
1-CONTRACTOR SHALL COMPLY WITH WATER AUTHORITY REGULATIONS FOR MANHOLE & SEWER PIPE INSTALLATION.
2-CONTRACTOR SHALL COORDINATE ALL NEW SEWER LINES WITH THE EXISTING NETWORK. HE SHALL TAKE FULL RESPONSIBILITIES TO CHECK EXISTING SEWER LINE INVERT LEVELS TO ASSURE PROPER NEW CONNECTIONS.
3-ALL MANHOLE COVERS SHALL BE CAST IRON HEAVY DUTY TO BS (M7).

Designed by:
Japan International Cooperation Agency (JICA)
JICA Study Team:
Joint Venture of Pacific Consultants International and Yamasaki Sekidai Inc.
Subcontracted Local Consultant:

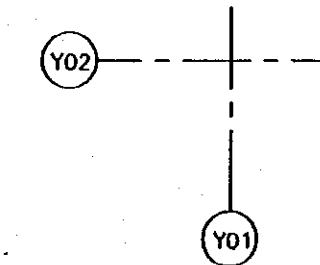
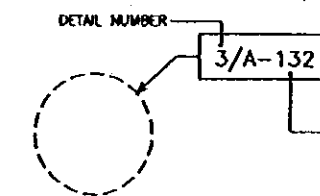
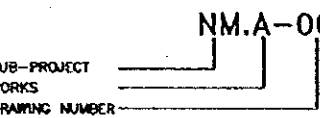
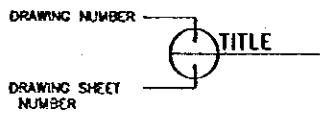
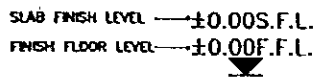
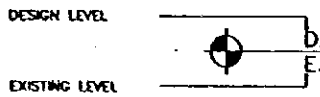
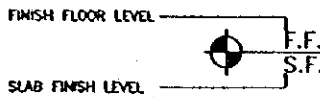
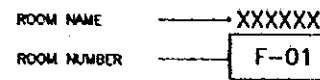
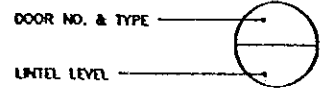
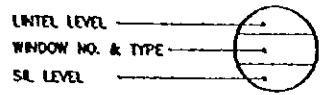


Drawing Title: MANHOLE SCHEDULE.

Scale: N.T.S. Drawing No.: T.S.M-021

KARAK TOURISM DEVELOPMENT PROJECT
CASTLE OBSERVATION POINT

AUGUST 2000



WINDOWS TYPE :
 SW : STEEL WINDOW
 AW : ALUMINUM WINDOW
 TW : TIMBER WINDOW

DOORS TYPE :
 SR : STEEL DOOR
 AR : ALUMINUM DOOR
 TD : TIMBER DOOR

ROOM NUMBER :
 B : BASEMENT FLOOR
 C : GROUND FLOOR
 F : FIRST FLOOR
 S : SECOND FLOOR

LEVEL IN PLAN

LEVEL IN PLAN

LEVEL IN ELEVATIONS & SECTIONS

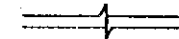
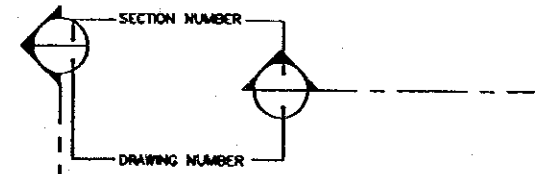
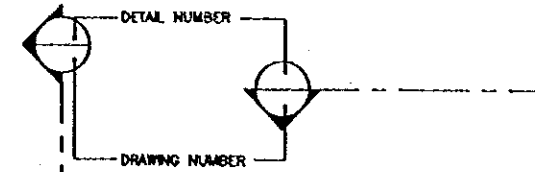
DRAWING TITLE

DRAWING NUMBER WORKS :
 A : ARCHITECTURAL WORKS
 S : STRUCTURAL WORKS
 E : ELECTRICAL WORKS
 M : MECHANICAL WORKS
 L : LANDSCAPING WORKS
 EX : EXHIBITION WORKS
 R : RECOMMENDATIONS
 G : GENERAL

SUB-PROJECT :
 TS : TOURIST STREET
 VC : VISITORS CENTER
 LOP : LOWER OBSERVATION POINT
 UOP : UPPER OBSERVATION POINT
 XGM : KARAK CASTLE MUSEUM
 KCP : KARAK CASTLE PATHWAY

REFERENCE TO DETAIL

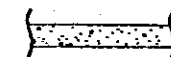
CENTER LINE



REFERENCE TO DETAIL

SECTION LINE

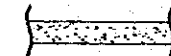
CUT LINE



CONCRETE



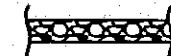
REINFORCED CONCRETE



SAND



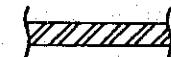
COMPACTED FILL



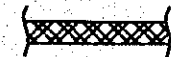
BASE COURSE



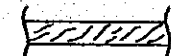
STONE, MARBLE, ...



HOLLOW CONCRETE BLOCK



SOLID CONCRETE BLOCK



WOOD



THERMAL INSULATION



WATER PROOFING

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

Note:
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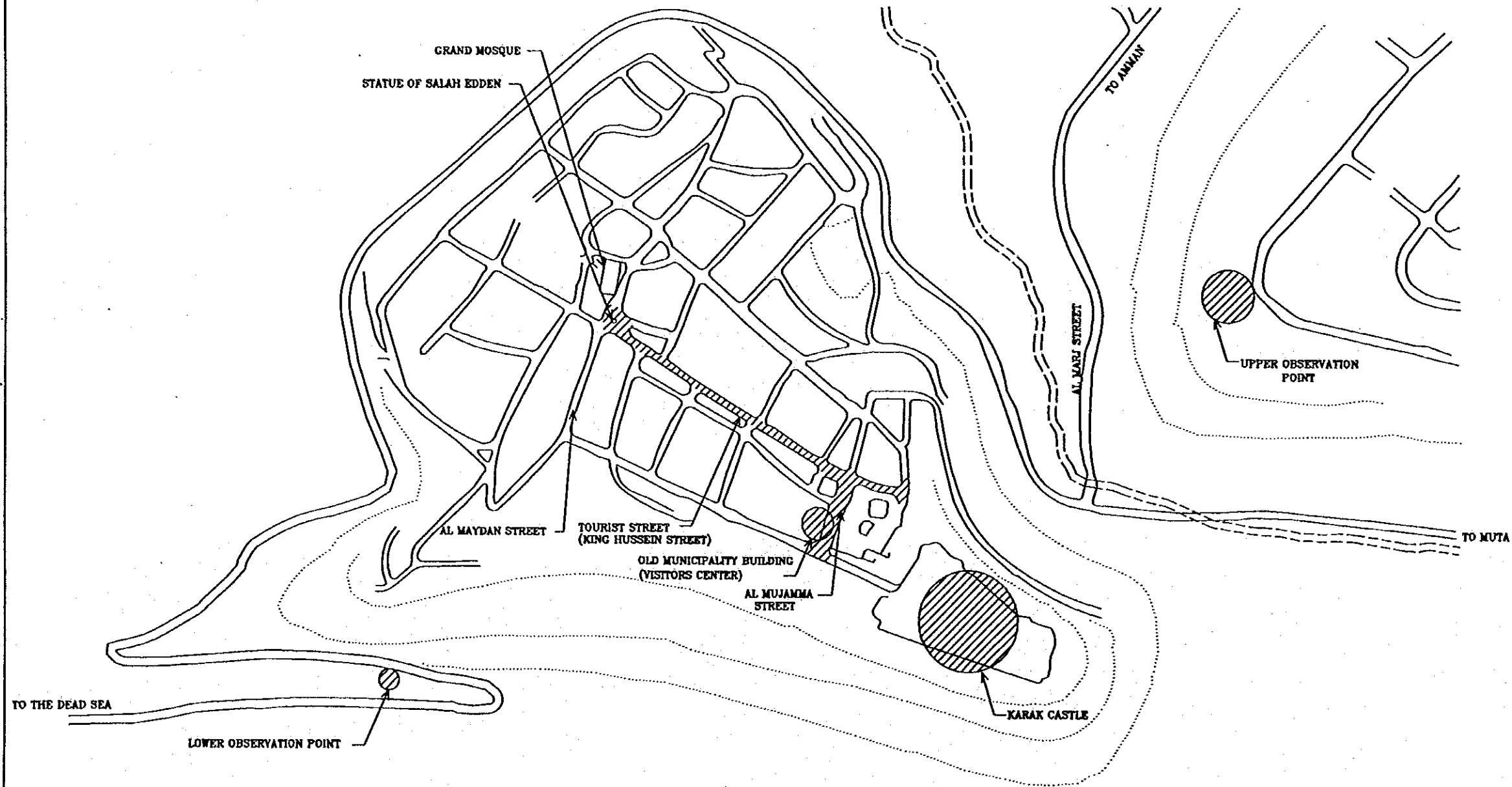
consolidated consultants
 engineering & environment
 Tel: 0112277 - Fax: 0112280 - 1999 - 2000

Date: June 2000

ARCHITECTURAL LIST OF ABBREVIATIONS & SYMBOLS
 Drawing Title:

Scale: A.T.S. **Drawing No.:** G-001

LOCATION MAP OF KARAK TOURISM DEVELOPMENT PROJECT



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

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Date: June 2000

LOCATION MAP
Drawing Title:



Scale: N.T.S. **Drawing No.:** G-002

CODE OF PRACTICE

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

DIMENSIONS

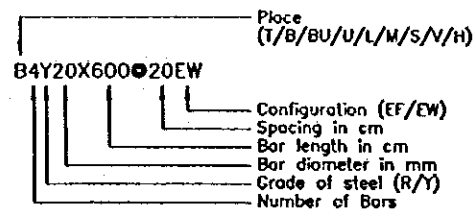
All Dimensions are in Centimetres.

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	=	Locer 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,I,K,L,M,N,O,U,Y
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

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

- C25 - 25 MPa

Minimum cement content, per cubic metre, shall be:

- C25 - 300 kilograms

Maximum water-cement ratio shall be:

- C25 - 0.60

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.

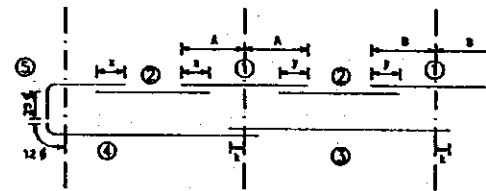
STRUCTURAL STEEL WORKS

- ALL STRUCTURAL STEEL WORK SHALL BE EXECUTED IN ACCORDANCE WITH BS 449.
- STRUCTURAL STEEL SHALL BE OF AT LEAST QUALITY 43 AND IN ACCORDANCE WITH BS 4360.
- BOLTS AND NUTS SHALL BE GALVANIZED OF AT LEAST QUALITY 8.8 IN ACCORDANCE WITH BS 3692.
- ALL WELDING SHALL BE DONE ACCORDING TO BS 5135 BY QUALIFIED WELDERS.
- ALL MEASURES FOR THE STRUCTURAL STEEL SHALL BE VERIFIED BY FIELD MEASUREMENT BEFORE FABRICATION.
- ALL STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH PRIMER SUITABLE AS UNDER LAYER FOR SUBSEQUENT TREATMENT ACCORDING TO SPECIFICATIONS.
- PAINTED SURFACES DESTROYED BY FIELD WELDING OR OTHER REASONS SHALL BE WIRE BRUSHED AND RE-PAINT WITH SAME TREATMENT AS ADJACENT SURFACES PLUS ONE EXTRA COAT.
- ALL WELDS ARE 6mm FILLET WELDS OR OTHERWISE STATED.

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 spaces. 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 at exterior supports shall extend 25 times the bar size beyond the bend.

FOUNDATIONS

The Foundations are designed for allowable bearing capacity equal to 200 KPa.

Foundation level not less than 1.5m from finish floor level.

It is the responsibility of the Contractor to ensure that this bearing capacity is achieved at site with respect to the location of footing.

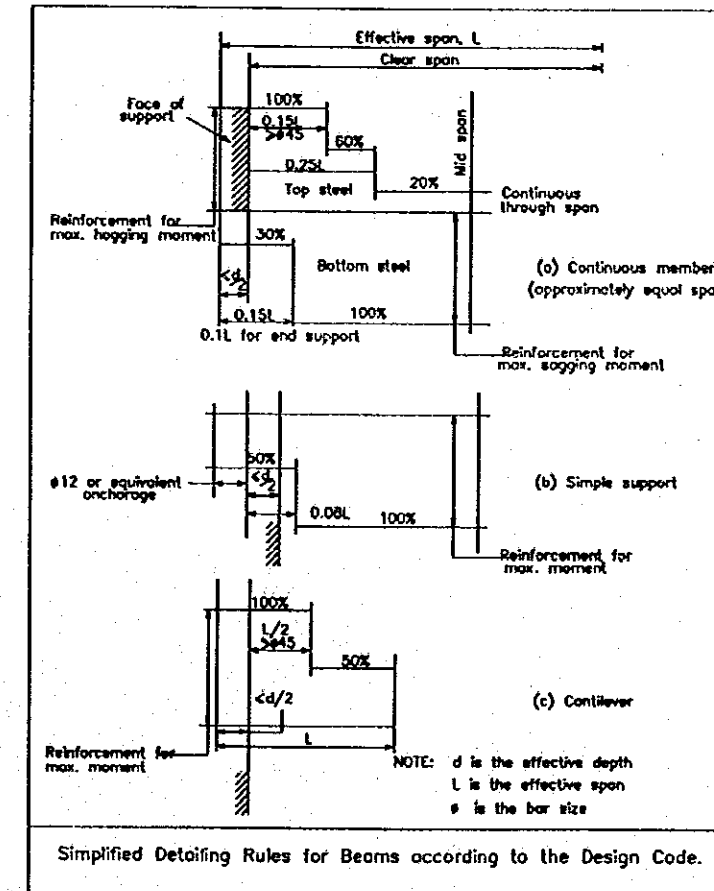
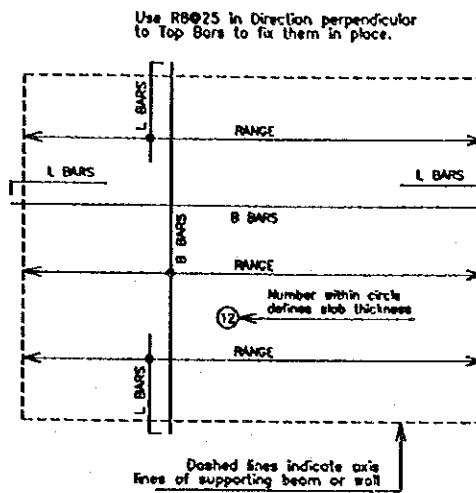
EXCAVATION & BACK FILLING

Back filling should be compacted on layers not more than 20cm thick to not less than 95% compaction ratio of the max. dry density of the modified proctor test.

BASEMENT WALL

It is not allowed to back fill behind basement walls and water tank walls before casting the concrete slab and removed of formwork.

Notation Employed for Solid Slab Panels



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Subcontracted Local Consultant:

consolidated consultants
engineering & environment
Tel: 0112277 - Fax: 0112278 - Amman - JORDAN

Date: June 2000

STRUCTURAL NOTES-1

Drawing Title:

Scale:

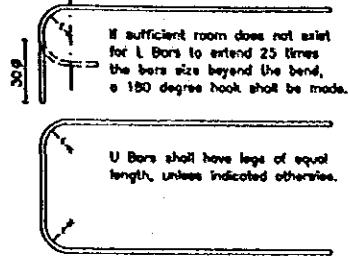
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Drawing No.:

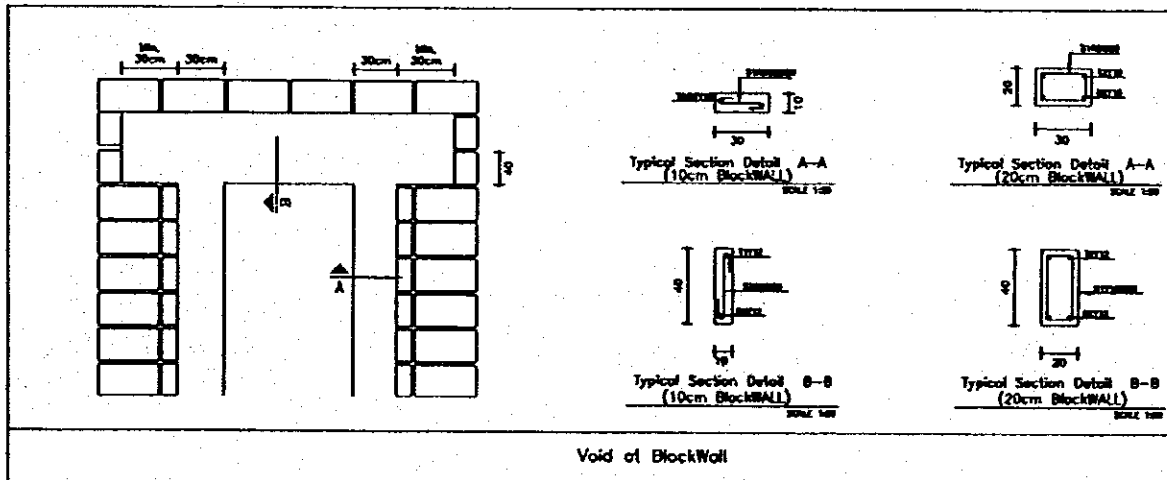
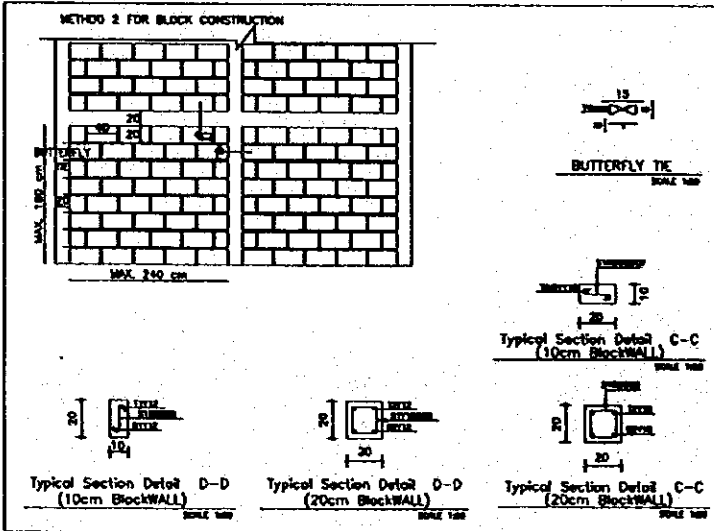
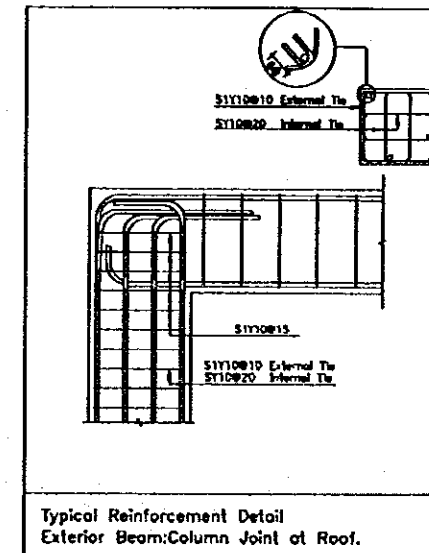
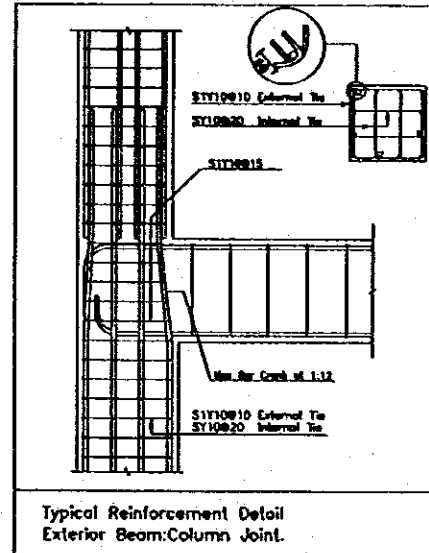
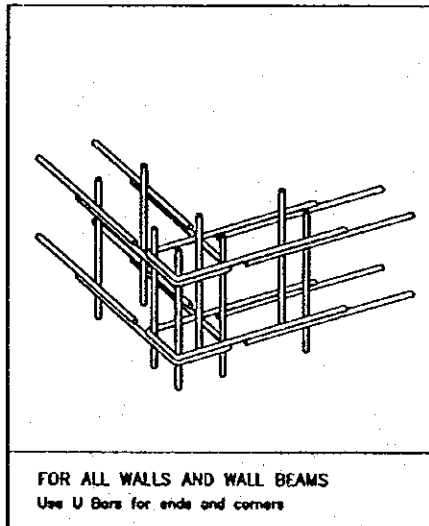
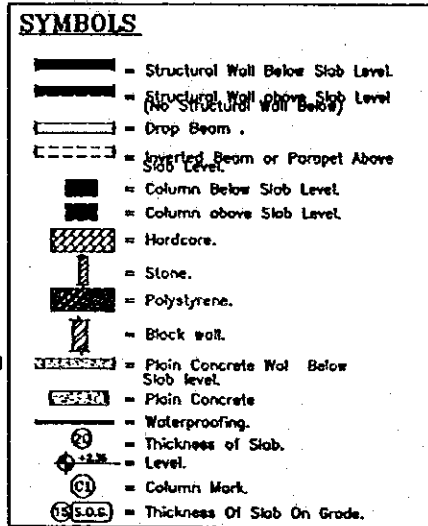
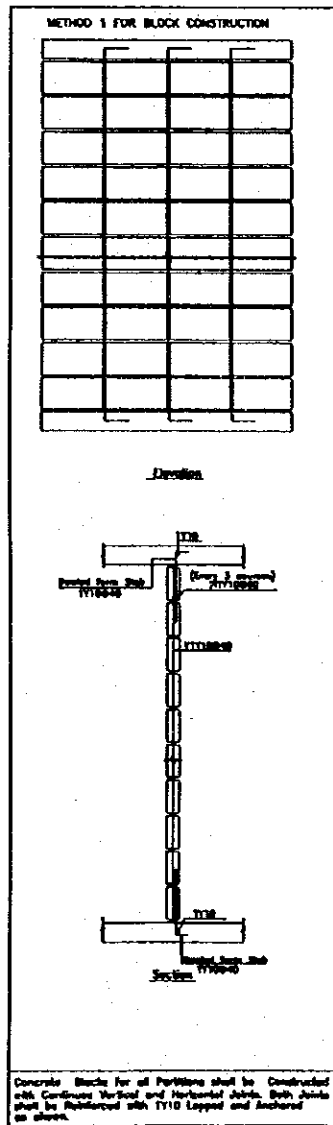
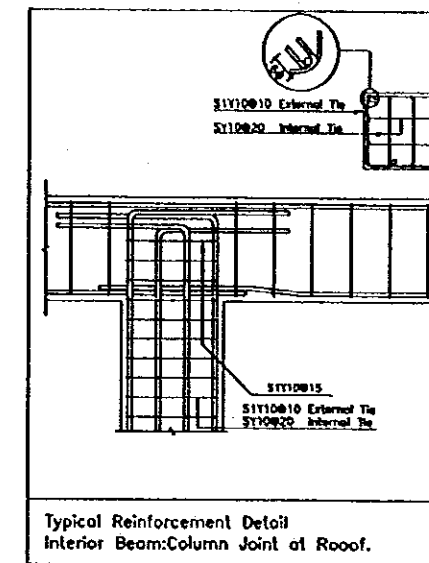
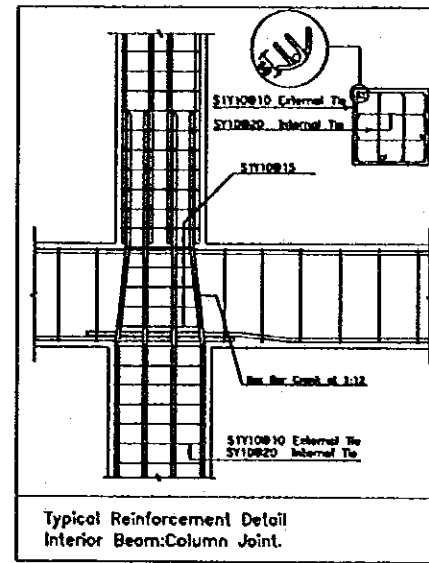
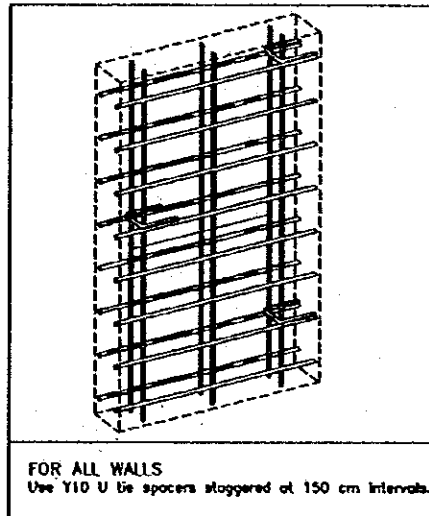
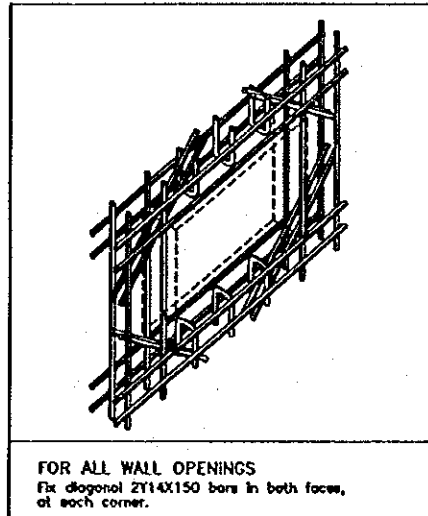
G-003

RADII 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



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consolidated consultants
Engineering & Environment
Tel: 052277 - Fax: 052280 - AMMAN - JORDAN

Date: June 2000

STRUCTURAL NOTES-2

Drawing Title:

Scale: AS SHOWN Drawing No.: G-004

KARAK TOURISM DEVELOPMENT PROJECT UPPER CASTLE OBSERVATION POINT

MARCH 2000

LIST OF DRAWINGS

ARCHITECTURAL DRAWINGS

Dwg. No.	DRAWING TITLE	SCALE
UOP.A-000	LIST OF DRAWINGS	N.T.S.
UOP.A-001	TOPOLOGICAL SURVEY & DEMOLISHING MAP	1:200
UOP.A-002	SITE PLAN	1:200
UOP.A-003	STORM WATER DRAINAGE PLAN	1:200
UOP.A-004	SITE AREA & FLOOR AREA	1:200
UOP.A-005	BASEMENT FLOOR PLAN (GENERAL)	1:100
UOP.A-006	BASEMENT FLOOR PLAN (PART 1)	1:50
UOP.A-007	BASEMENT FLOOR PLAN (PART 2)	1:50
UOP.A-008	GROUND FLOOR PLAN	1:100
UOP.A-009	BASEMENT REFLECTED CEILING PLAN	1:100
UOP.A-010	ELEVATIONS	1:50
UOP.A-011	ELEVATIONS	1:50
UOP.A-012	ELEVATION	1:100
UOP.A-013	SECTIONS	1:50
UOP.A-014	ARCHITECTURAL DETAILS-1	1:10
UOP.A-015	ARCHITECTURAL DETAILS-2	1:10, 1:20
UOP.A-016	ARCHITECTURAL DETAILS-3	1:10, 1:20
UOP.A-017	ARCHITECTURAL DETAILS-4	1:10, 1:20, 1:5
UOP.A-018	DOORS & WINDOWS DETAILS & FINISHING SCHEDULE	1:50, 1:10, 1:5
UOP.A-019	SIGNAGE SCHEDULE	1:10
LANDSCAPE DRAWINGS		
UOP.L-001	TILING PATTERN & MATERIAL	1:200
UOP.L-002	PLANTING PLAN	1:200
UOP.L-003	LANDSCAPE DETAILS-1	1:10, 1:20
UOP.L-004	LANDSCAPE DETAILS-2	1:10
UOP.L-005	LANDSCAPE DETAILS-3	1:100, 1:20
UOP.L-006	LANDSCAPE DETAILS-4	1:10, 1:20
UOP.L-007	LANDSCAPE DETAILS-5	1:20

STRUCTURAL DRAWINGS

Dwg. No.	DRAWING TITLE	SCALE
UOP.S-000a	GENERAL NOTES-1	N.T.S.
UOP.S-000b	GENERAL NOTES-2	N.T.S.
UOP.S-001	BASEMENT FLOOR REINFORCEMENT PLAN	1:100
UOP.S-002	GROUND FLOOR REINFORCEMENT PLAN	1:100
UOP.S-003	BEAMS STRUCTURAL DETAILS-1	1:20
UOP.S-004	BEAMS STRUCTURAL DETAILS-2	1:20
UOP.S-005	FOUNDATION PLAN	1:100
UOP.S-006	FOUNDATION DETAILS-1	1:20
UOP.S-007	FOUNDATION DETAILS-2	1:20

ELECTRICAL DRAWINGS

Dwg. No.	DRAWING TITLE	SCALE
UOP.E-001	SITE PLAN LIGHTING LAYOUT	1:200
UOP.E-002	GROUND & BASEMENT LIGHTING, POWER AND TELEPHONE SYSTEM	1:100
UOP.E-003	DISTRIBUTION BOARDS	N.T.S.

MECHANICAL DRAWINGS

Dwg. No.	DRAWING TITLE	SCALE
UOP.M-001	WATER & DRAINAGE DISTRIBUTION LAY OUT	N.T.S.
UOP.M-002	VENTALATION	1:100
UOP.M-003	MECHANICAL DETAILS	1:20


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The Ministry of Tourism and Antiquities
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Karak Tourism Development Project
Upper Observation Point

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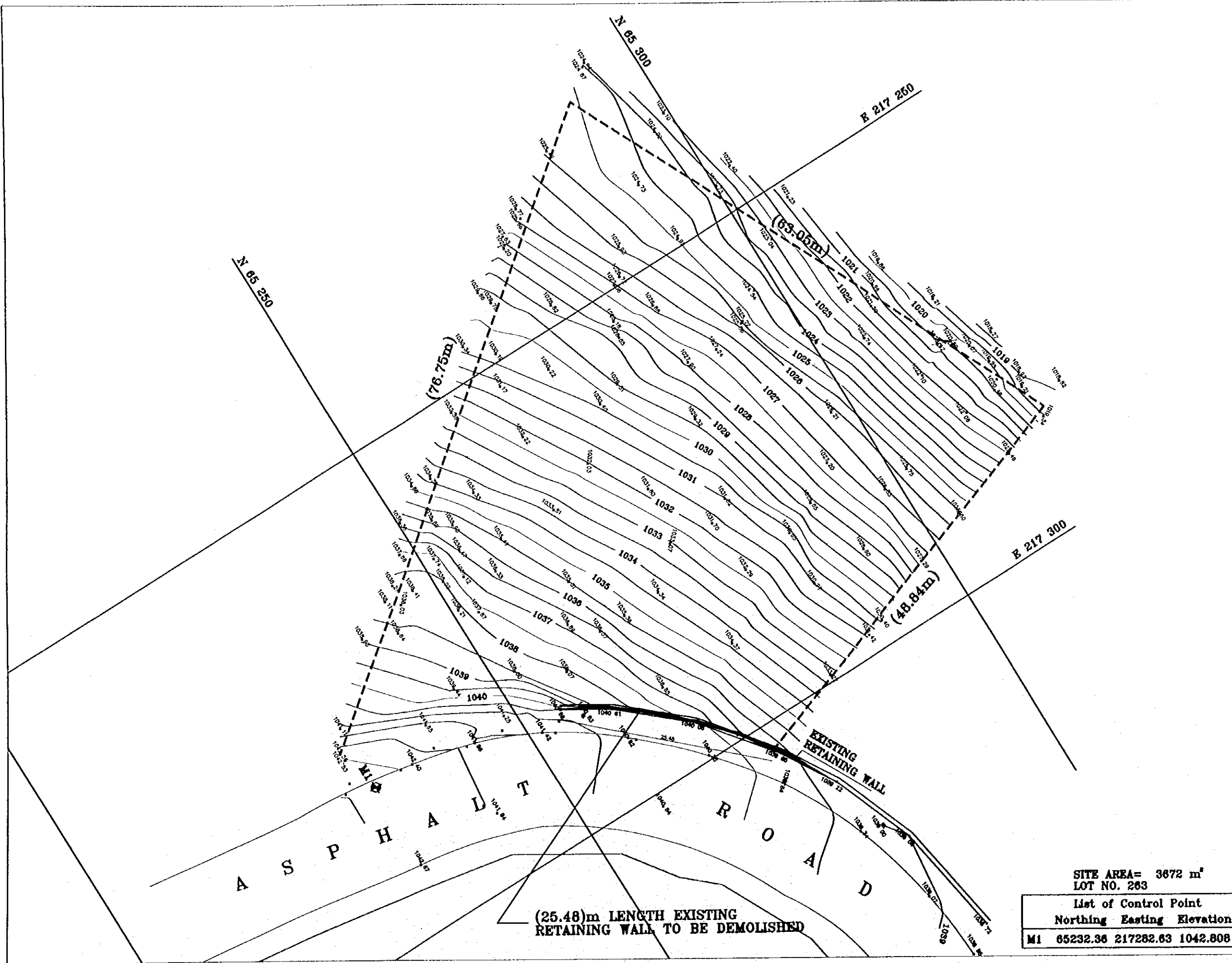
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INCORPORATED IN JAPAN
Tel: 90-3377 - Fax: 90-3380 - Email: JICA@cc-jp.com

LIST OF DRAWINGS

Drawing Title:

Scale: N.T.S. Drawing No: UOP.A-000



SITE AREA= 3672 m²
LOT NO. 263

List of Control Point		
Northing	Easting	Elevation
M1 65232.36	217282.63	1042.808

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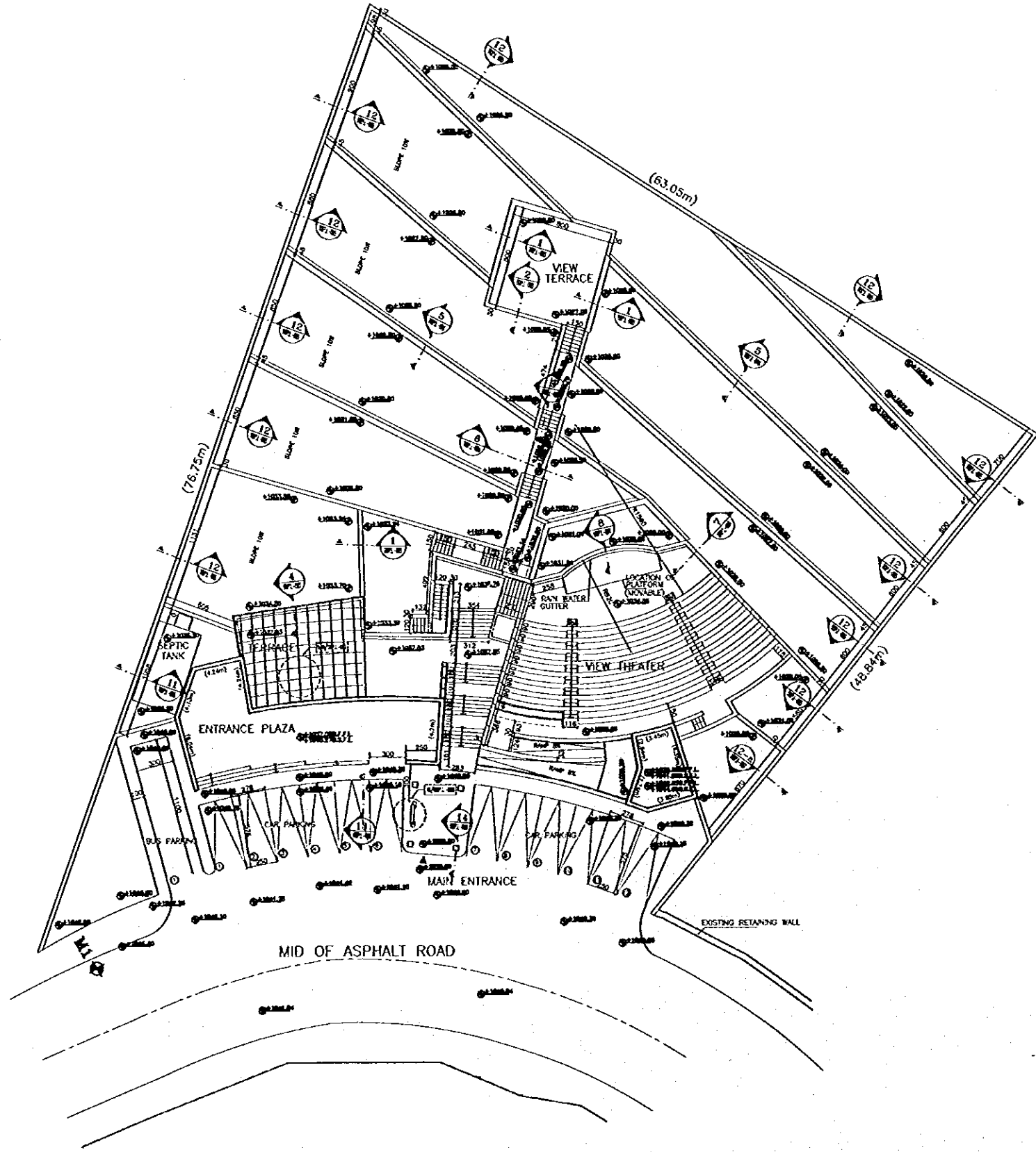
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TOPOLOGICAL SURVEY & DEMOLISHING MAP

Drawing Title:

Scale:	Drawing No.:
1/200	UOP.A-001



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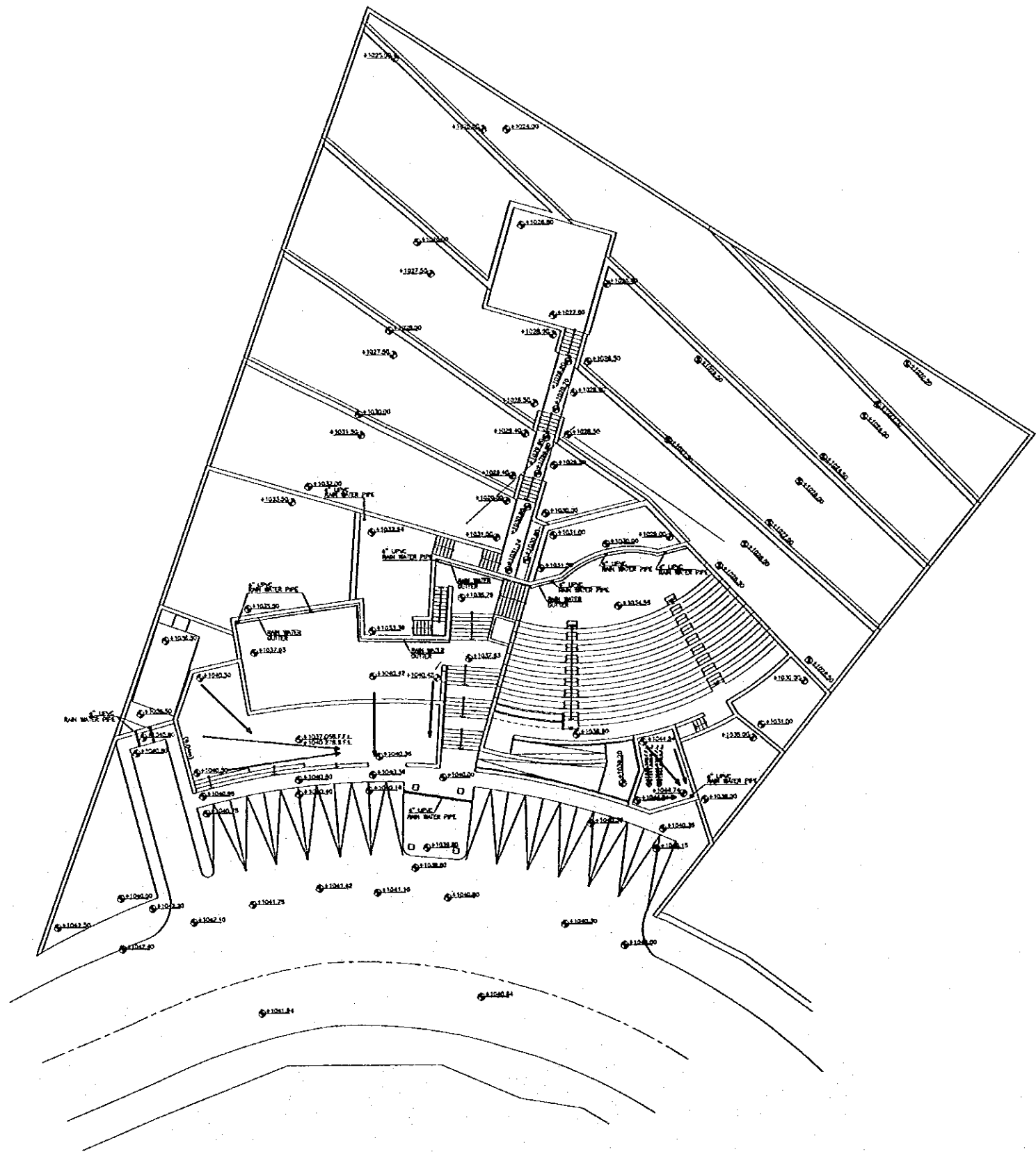


SITE PLAN

Drawing Title:

Scale:
1:200

Drawing No:
UOP.A-002



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

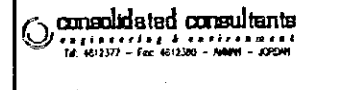
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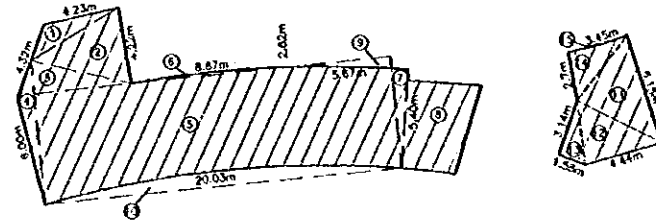


**STORM WATER
DRAINAGE PLAN**
Drawing Title:

Scale: 1:200
Drawing No: UOP.A-003

AREA TABLE FOR BASEMENT FLOOR

No.	DIMENSIONS	AREA m ²
1	4.23 x 1.76 x 0.5	+3.72
2	4.22 x 5.28 x 0.5	+11.14
3	5.43 x 1.83 x 0.5	+5.97
4	7.92 x 0.97 x 0.5	+3.84
5	19.93 x 6.13	+122.17
6	BY CAD	+0.91
7	BY CAD	+2.49
8	BY CAD	+17.20
9	BY CAD	-1.57
10	BY CAD	-11.35
11	6.15 x 3.78 x 0.5	+11.62
12	4.44 x 3.49 x 0.5	+7.75
13	1.58 x 3.14 x 0.5	+2.48
14	3.44 x 2.69 x 0.5	+4.63
15	BY CAD	-0.15
TOTAL		180.85



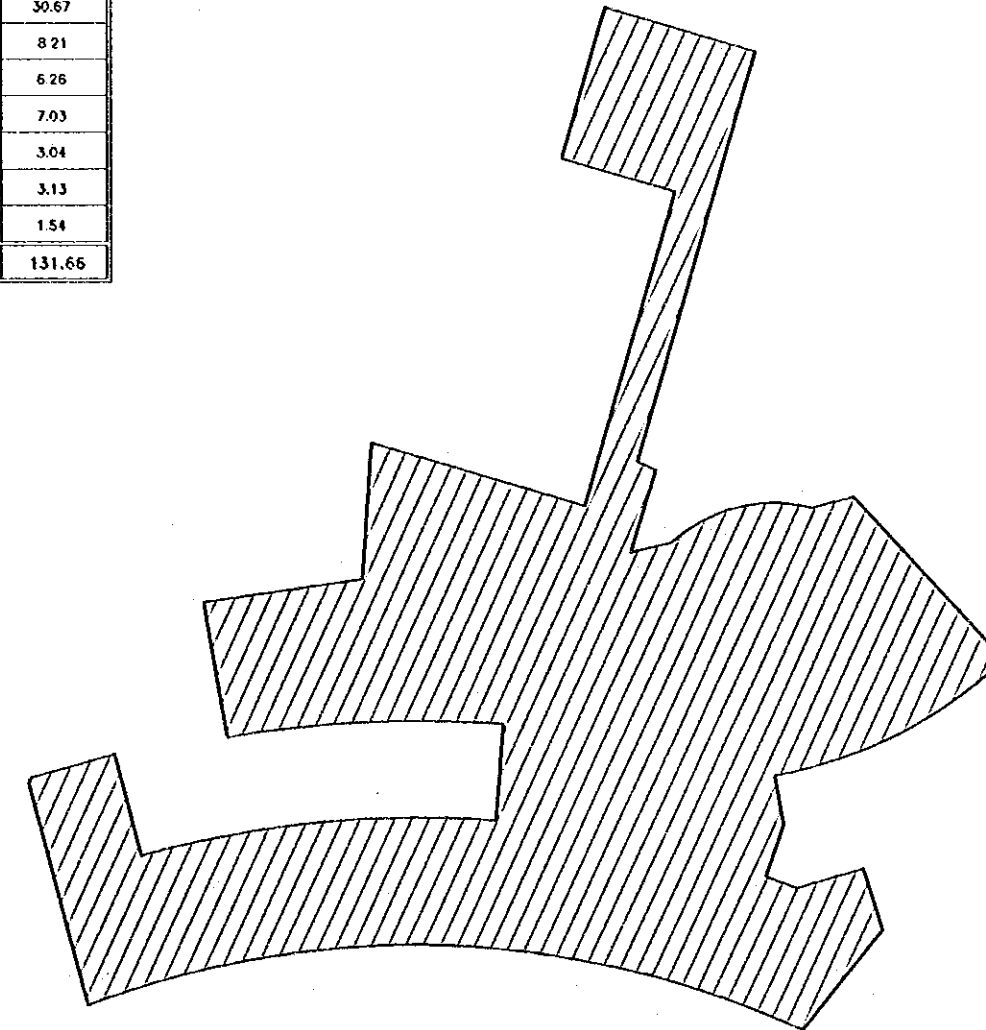
BASEMENT FLOOR AREA = 180.85 sq.m.

INTERNAL AREA TABLE FOR BASEMENT FLOOR

ROOM No.	ROOM NAME	AREA m ²
B-01	M. TOILETS	17.16
B-02	F. TOILETS	14.72
B-03	INFORMATION BOOTH	13.30
B-04	KIOSK	13.30
B-05	KIOSK	13.30
B-06	CAFETERIA	30.67
B-07	KITCHEN	8.21
B-08	STORE	6.26
B-09	STORE	7.03
B-10	F. DISABLED (W.C.)	3.04
B-11	STORE	3.13
B-12	STORE	1.54
TOTAL		131.66

INTERNAL AREA TABLE FOR GROUND FLOOR

ROOM No.	ROOM NAME	AREA m ²
G-01	STORE	7.05
G-02	GUARD ROOM	4.80
G-03	W.C.	2.02
G-04	KITCHEN	1.41
TOTAL		15.28



EXTERNAL PAVED AREA = 1029.970 sq.m.

AREA TABLE FOR GROUND FLOOR

No.	DIMENSIONS	AREA m ²
1	3.44 x 2.69 x 0.5	+4.63
2	6.15 x 3.78 x 0.5	+11.62
3	4.44 x 3.49 x 0.5	+7.75
4	1.58 x 3.14 x 0.5	+2.48
5	BY CAD	-0.15
TOTAL		26.33



GROUND FLOOR AREA = 26.33 sq.m.

TOTAL AREAS

No.	FLOOR	AREA m ²
1	BASEMENT	180.85
2	GROUND	26.33
TOTAL		207.18

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ENGINEERING & ENVIRONMENT
TEL: 4013777 - FAX: 4013300 - AMMAN - JORDAN

**SITE AREA
& FLOOR AREA**
Drawing Title:

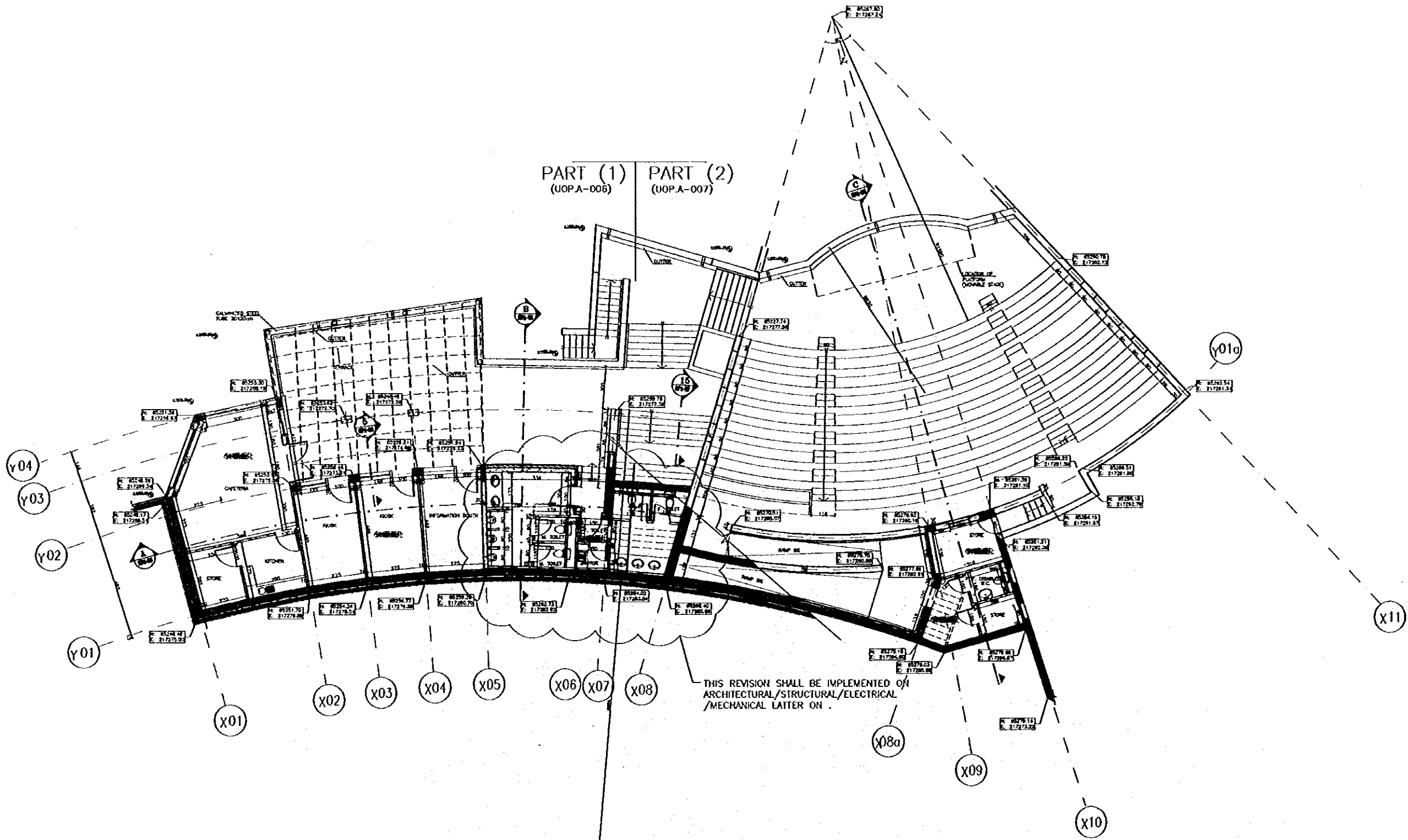
Scale: 1:200 Drawing No: **UOP.A-004**

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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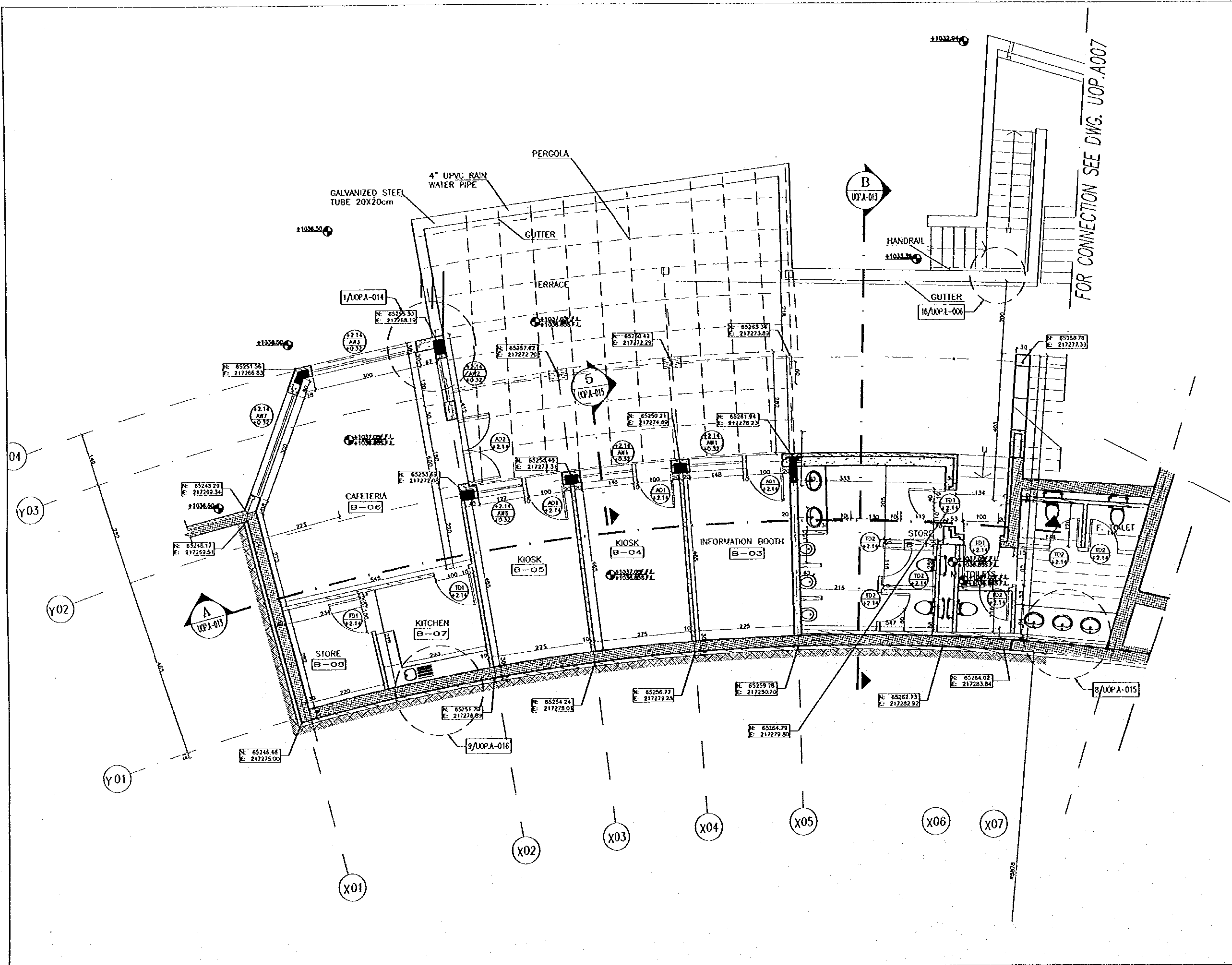
Subcontracted Local Consultant:


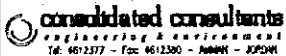


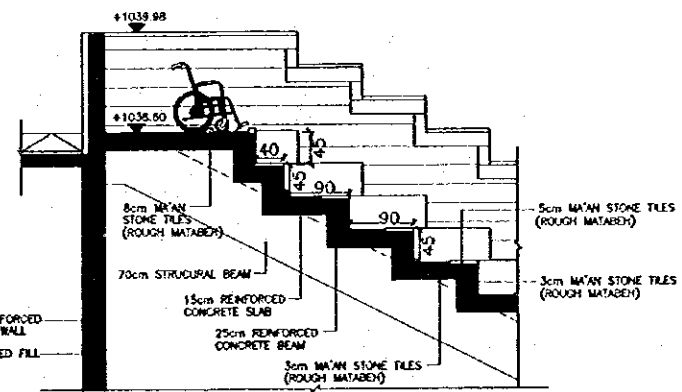
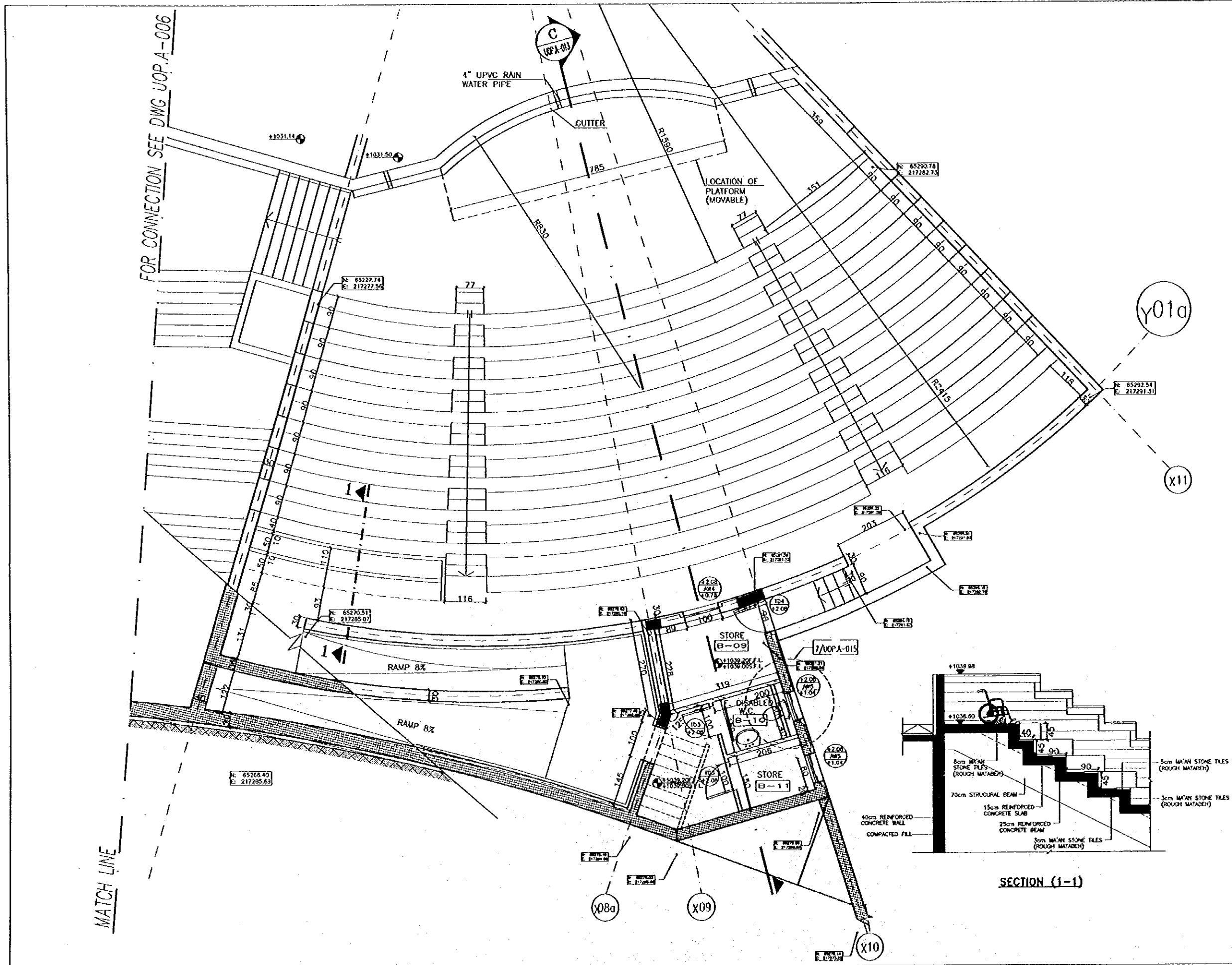
**BASEMENT FLOOR PLAN
 (GENERAL LAY OUT)**

Drawing Title:


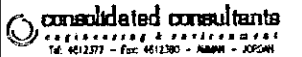
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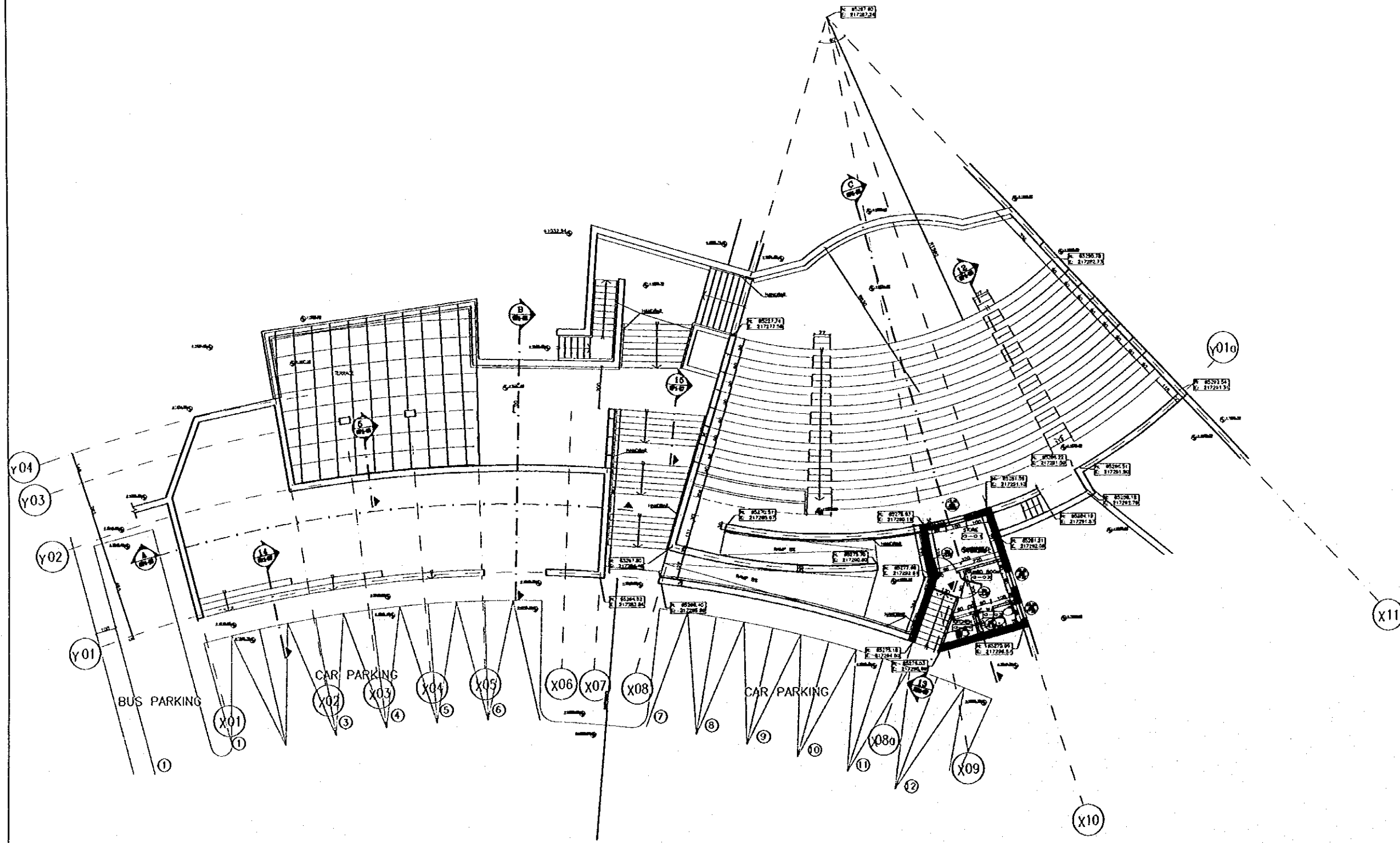


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Executing Agency: The Ministry of Tourism and Antiquities The Ministry of Planning
SUB-PROJECT: Karak Tourism Development Project Upper Observation Point
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BASEMENT FLOOR PLAN (PART 1)
Drawing Title:
Scale: 1:50
Drawing No: UOP.A-006



SECTION (1-1)

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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BASEMENT FLOOR PLAN (PART 2)	
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Scale: 1:50	Drawing No.: UCP.A-007



Project:
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 in the Hashemite Kingdom of Jordan

Executing Agency
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 The Ministry of Planning

SUB-PROJECT:
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 Upper Observation Point

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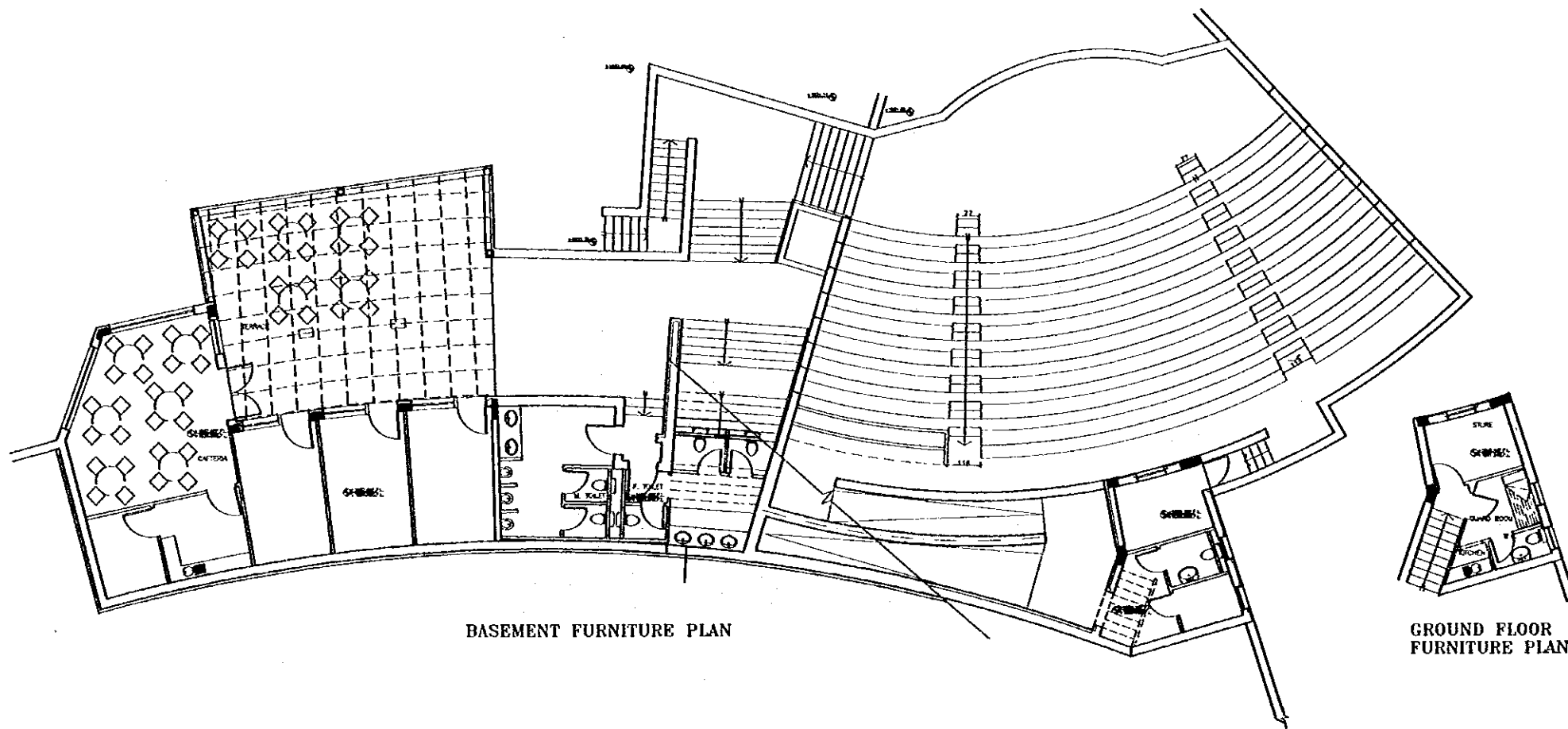


GROUND FLOOR PLAN

Drawing Title:

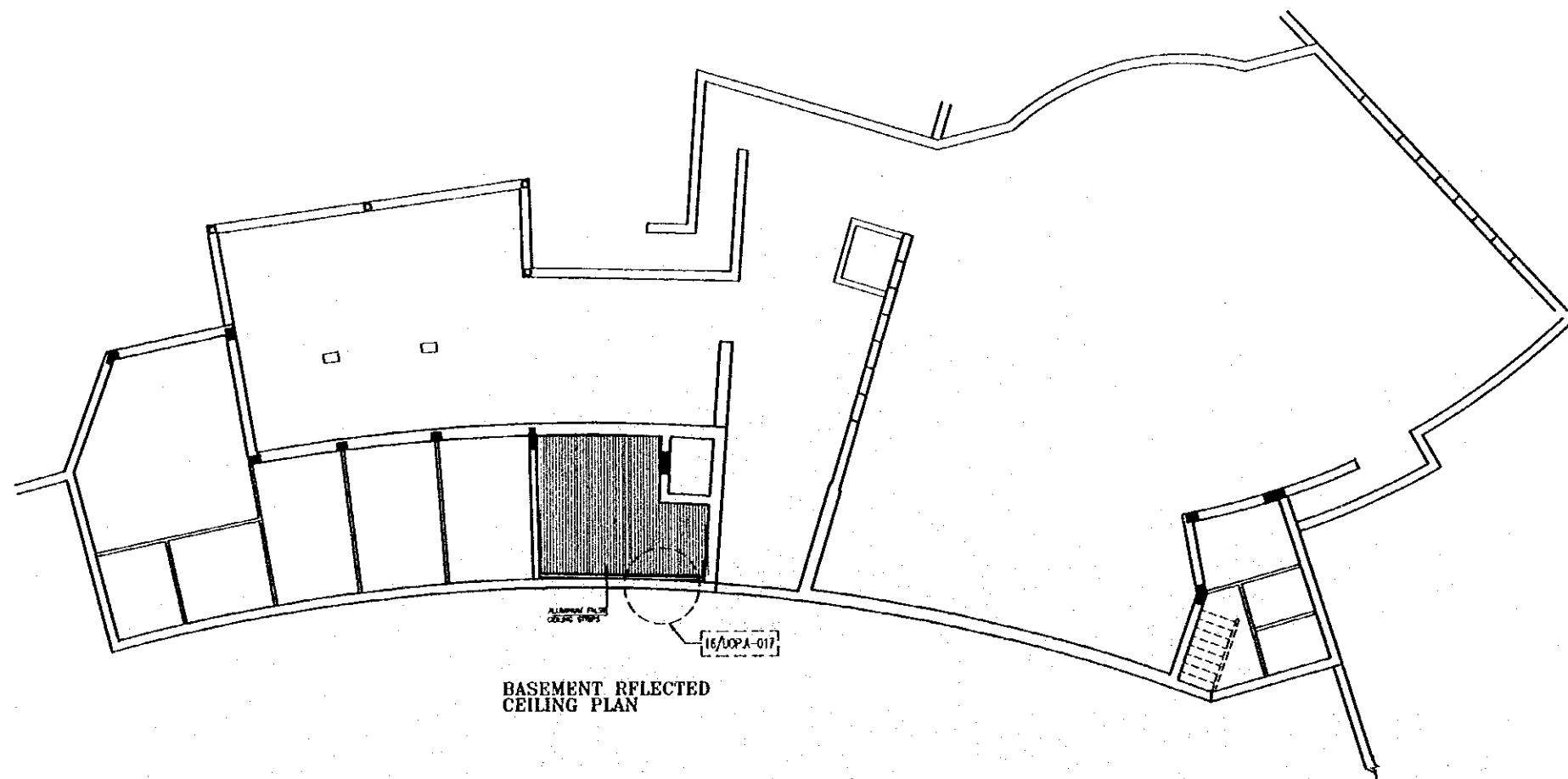
Scale:
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Drawing No.:
 VOP.A-008



BASEMENT FURNITURE PLAN

GROUND FLOOR FURNITURE PLAN



BASEMENT REFLECTED CEILING PLAN

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

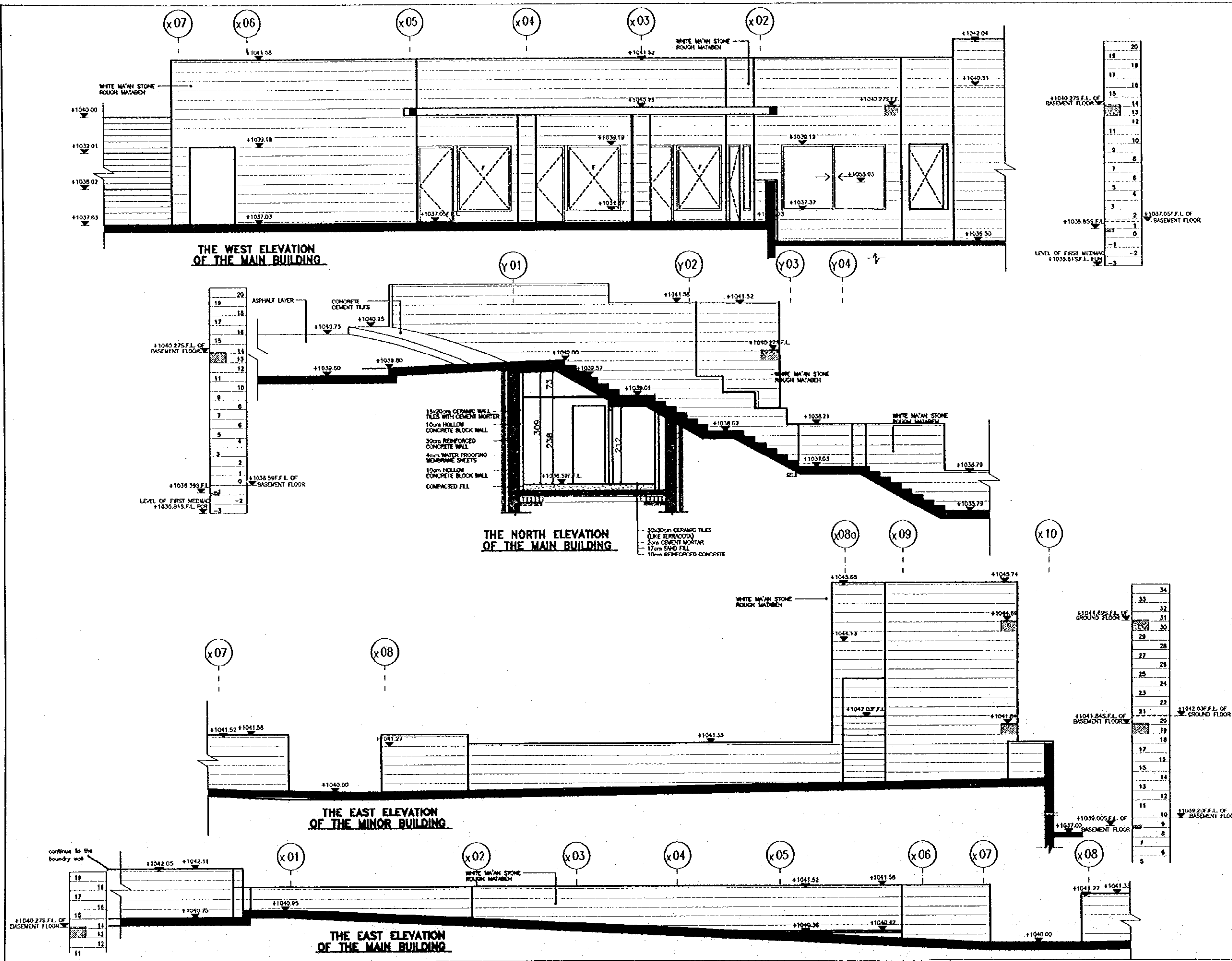
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NOTE:
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BASEMENT FLOOR FURNITURE & REFLECTED CEILING PLAN
Drawing Title:

Scale: 1:100 Drawing No: **UOPA-009**



Project:
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 in the Hashemite Kingdom of Jordan

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 The Ministry of Planning

SUB-PROJECT:
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 Upper Observation Point

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

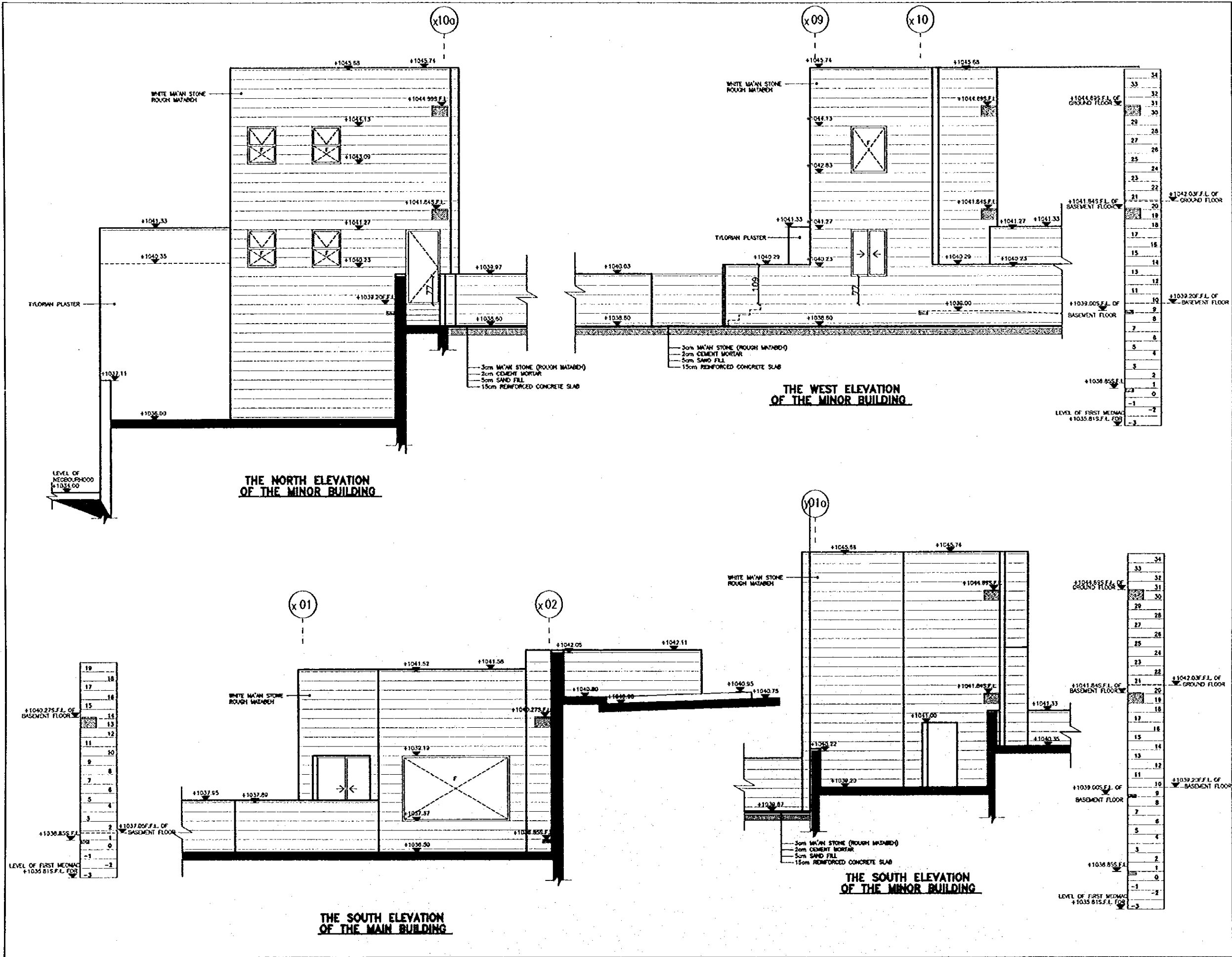
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ELEVATIONS

Drawing Title:

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



Project:
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 in the Hashemite Kingdom of Jordan

Executing Agency:
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 The Ministry of Planning

SUB-PROJECT:
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 Upper Observation Point

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ELEVATIONS

Drawing Title:

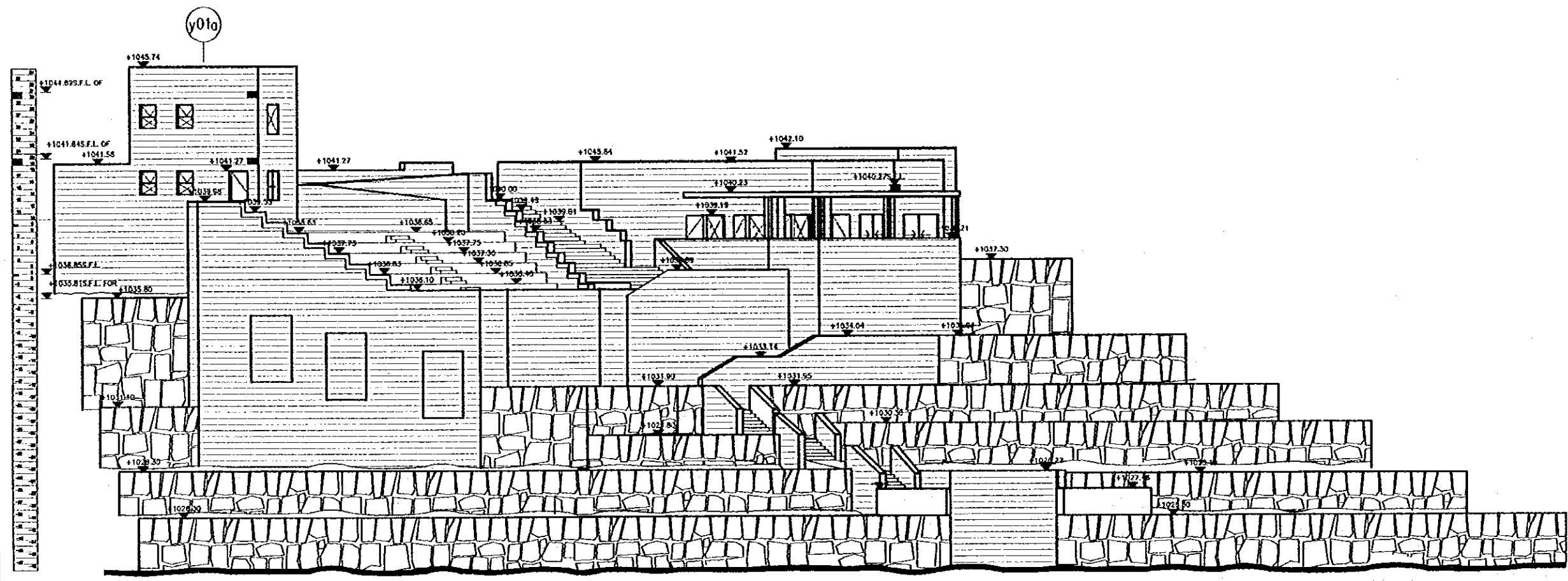
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Project:
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Executing Agency
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SUB-PROJECT:
 Karak Tourism Development Project
 Upper Observation Point

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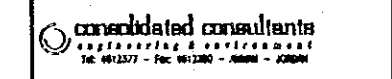


THE NORTH ELEVATION

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ELEVATION
 Drawing Title:

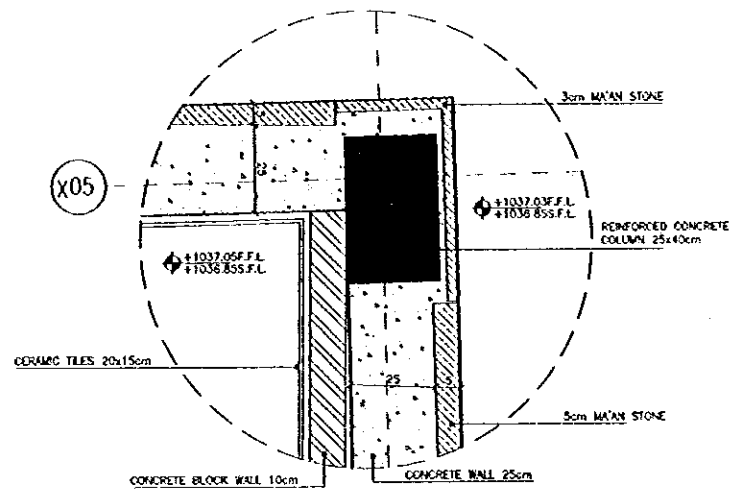
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 Drawing No: UOP.A-012

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

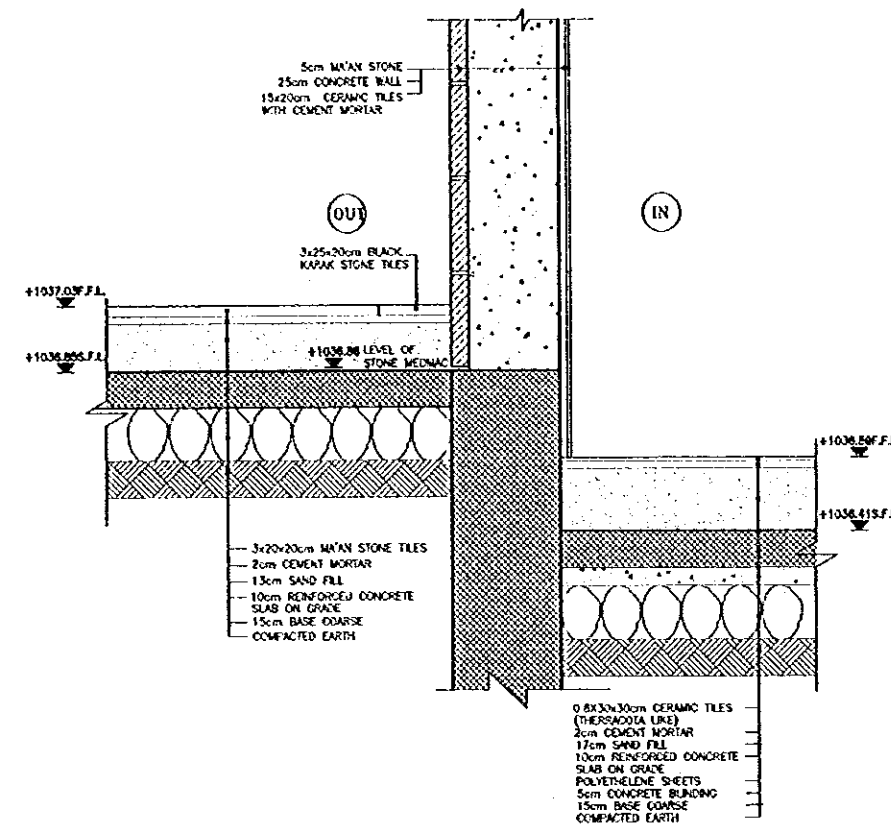
Executing Agency
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Upper Observation Point

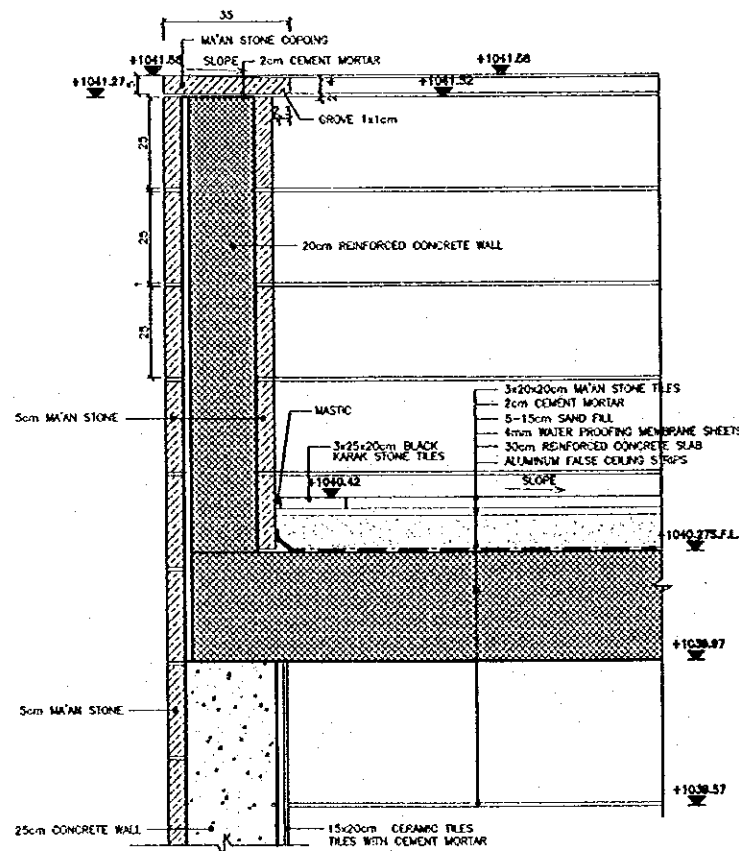
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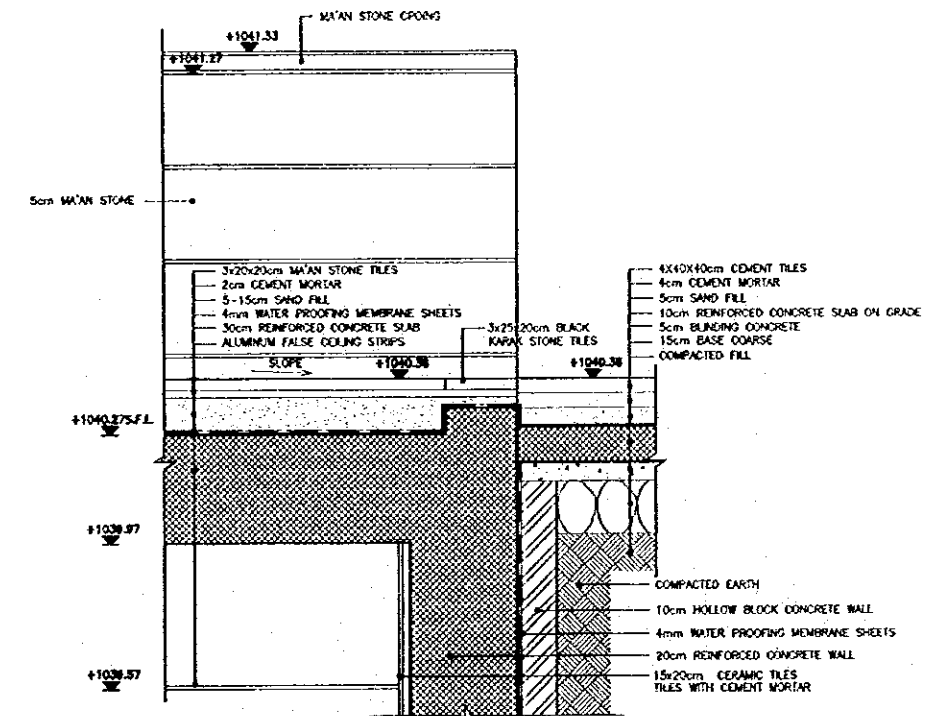
1 DETAIL (1)
SCALE = 1:10



2 DETAIL (2)
SCALE = 1:10



3 DETAIL (3)
SCALE = 1:10



4 DETAIL (4)
SCALE = 1:10

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ARCHITECTURAL
DETAILS-1

Scale: 1:10 Drawing No: UOP.A-014

