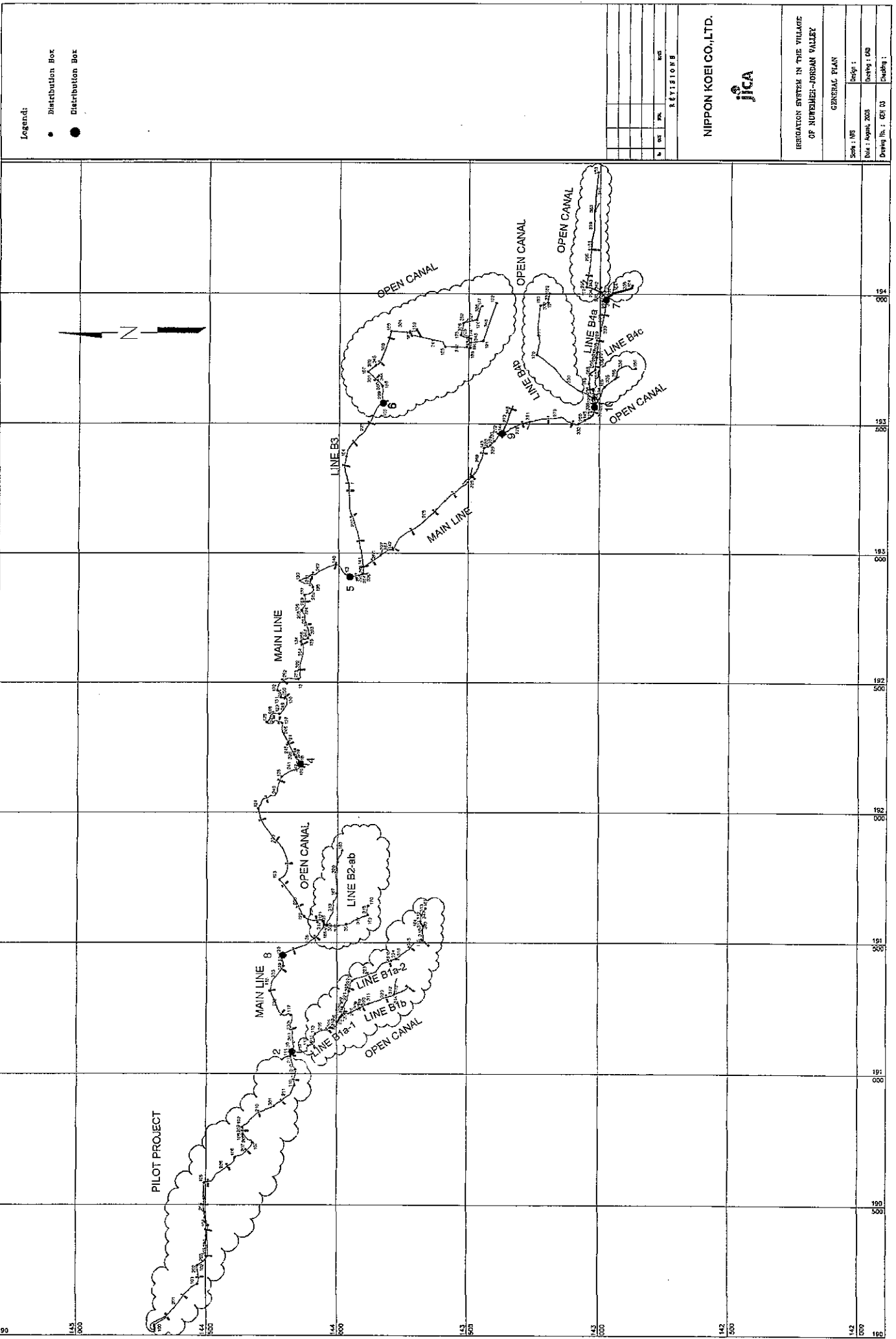


*Annex 4.8*

*Preliminary Drawings for priority Schemes*

*Plan and Profile of Al Nwai'mah Spring Water Conveyance System*



Legend:

● Distribution Box

■ Distribution Box

REVISIONS	
No.	Description

NIPPON KOEI CO., LTD.  
 JICA

IRIGATION SYSTEM IN THE VILLAGE OF NORTHMEIR-JORDAN VALLEY

GENERAL PLAN

Scale : 1/5000  
 Date : August, 2003  
 Designer : JICA

Drawing No. : 001/10  
 Sheet No. : 190

**Notes:**

- All dimensions are in meters unless otherwise indicated.
- Grids refer to the Palestinian "Grid System".
- Exact dimensions and levels shall be measured on site, and shall be approved by the supervision engineer.

**Legend:**

Plan:

- Canal Centerline
- HDPE pipeline
- Fence
- Paved Roads
- Track Roads
- Pedestrian Path
- Wall
- Building
- Plastic House
- Bridge
- Pool
- Bench Mark
- Electric or Telephone Pole
- Gate Valve
- Check Valve
- Pressure Reducing Valve
- Air Valve
- Washout
- Distribution Box

Profile:

- Natural Ground Level(NGL)
- New Pipeline
- HDPE
- High Density Polyethylene Pipe

B E I L I G H E		
NO.	DATE	REVISIONS

**NIPPON KOEI CO., LTD.**

**JICA**

IRRIGATION SYSTEM IN THE VILLAGE OF NUBURJES-JORDAN VALLEY

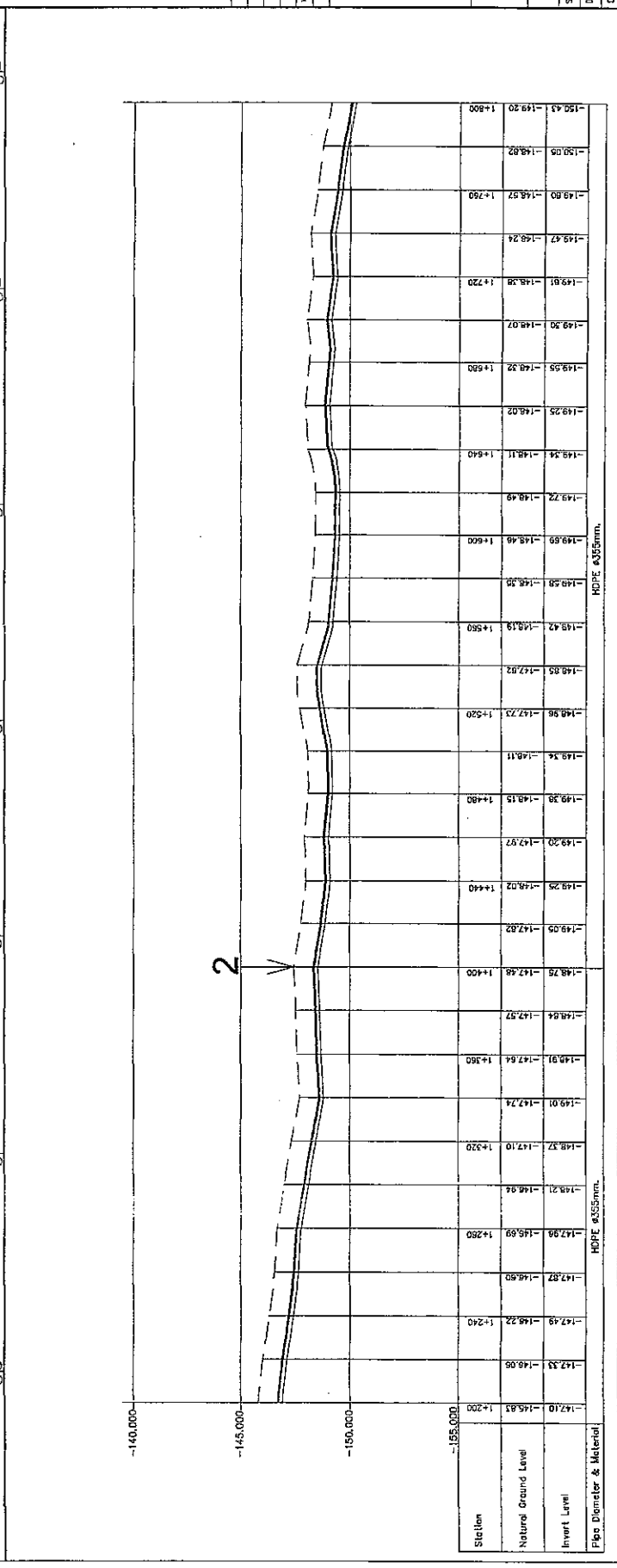
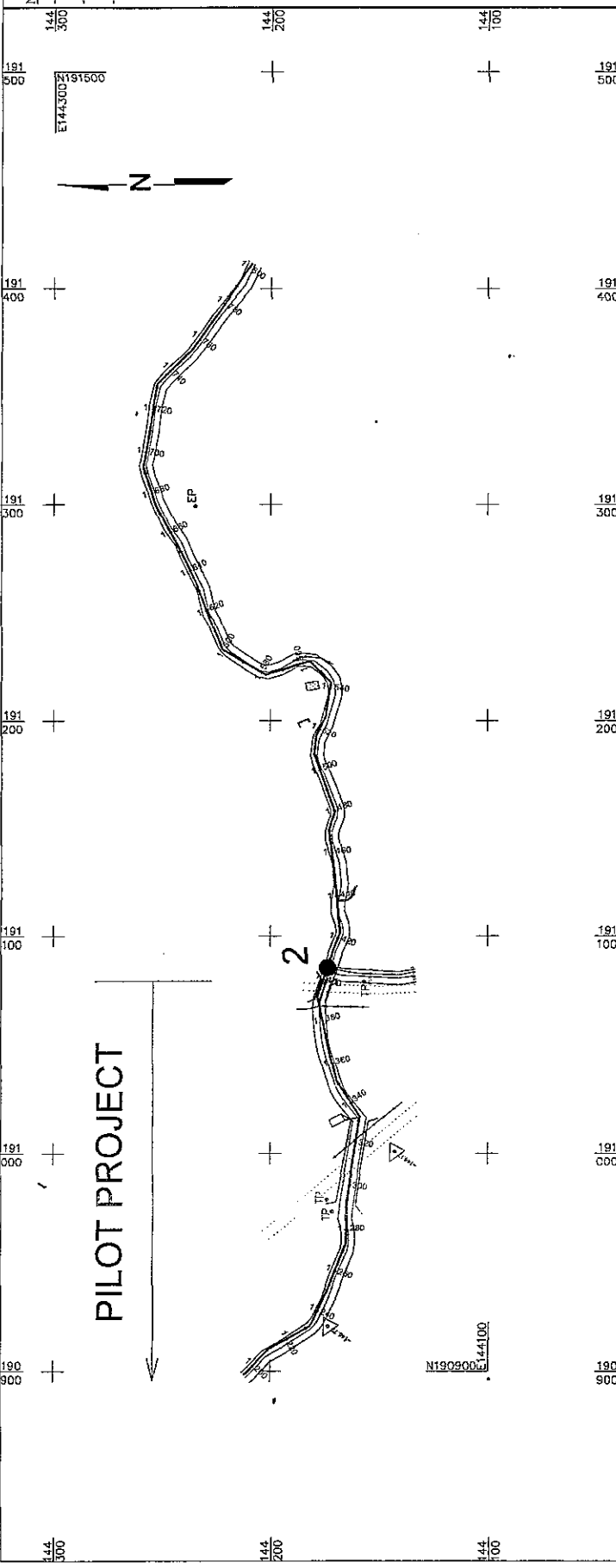
Plan/Profile-Main pipeline STA. 0+1200 To STA. 1+800

Scale: H: 1/2000 V: 1/1000

Date: Aug 2000

Drawn by: DPB

Checked by: M3



**Notes:**  
 - All dimensions are in meters unless otherwise indicated.  
 - Grids refer to the Palestinian "Grid System".  
 - Exact dimensions and levels shall be measured on site, and shall be approved by the supervision engineer.

**Legend:**  
**Plan:**  
 Canal Centerline  
 HDPE pipeline  
 Fence  
 Paved Roads  
 Track Roads  
 Pedestrian Path  
 Wall  
 Building  
 Plastic House  
 Bridge  
 Pool  
 Bench Mark  
 Electric or Telephone Pole  
 Water Meter  
 Gate Valve  
 Check Valve  
 Pressure Reducing Valve  
 Air Valve  
 Washout

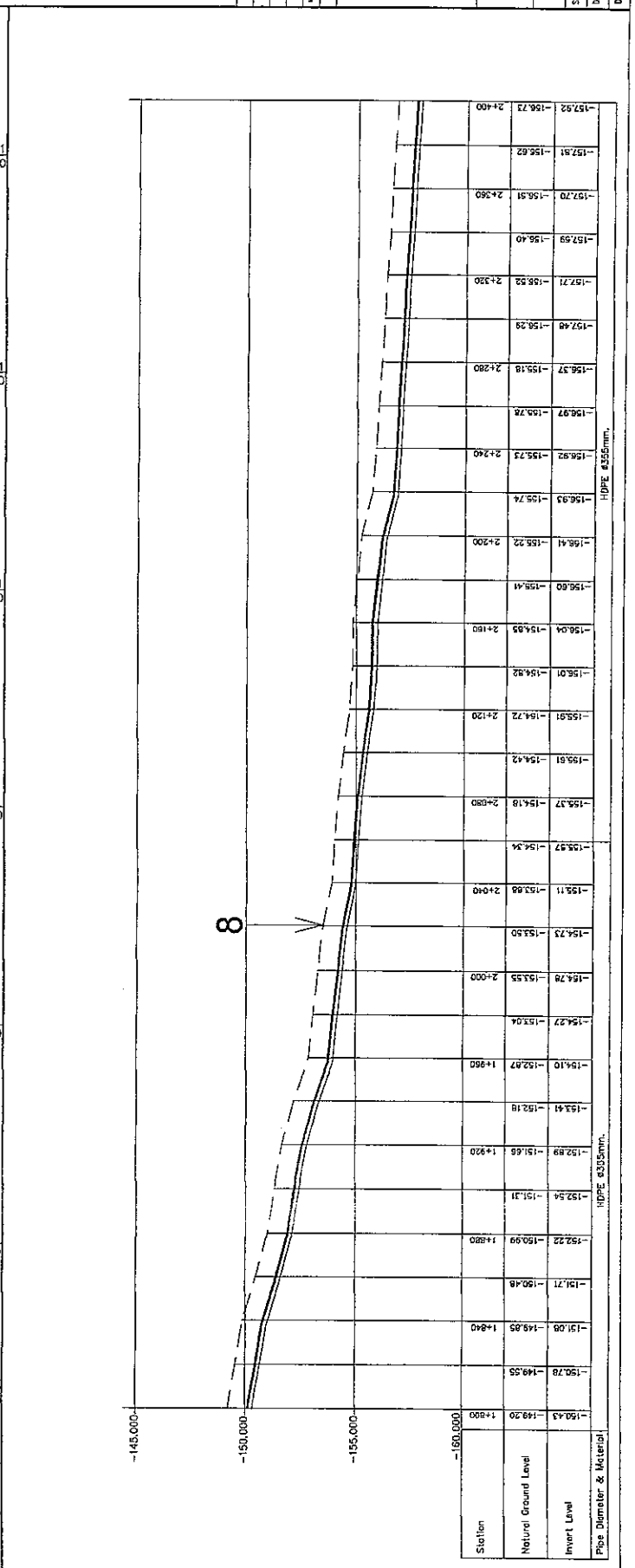
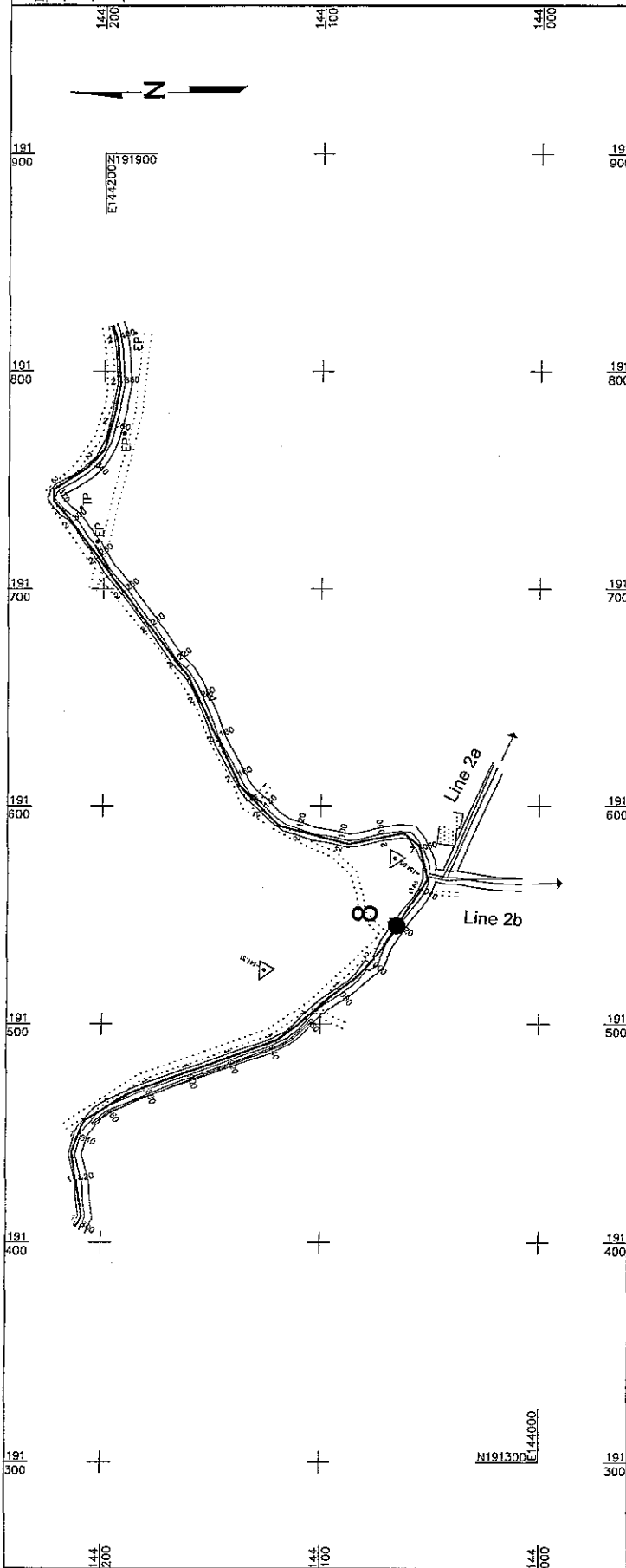
**Profile:**  
 Natural Ground Level (NGL)  
 New Pipeline  
 HDPE  
 High Density Polyethylene Pipe

**REVISIONS**

No.	Date	By	Rev.	Notes

**NIPPON KOEI CO., LTD.**  
**JICA**

IRRIGATION SYSTEM IN THE VILLAGE OF NUTHER-EL-JORDAN VALLEY  
 Plan/Profile - Main Pipeline  
 STA. 0+1000 To STA. 2+400  
 Scale: 1/200 in 1/2000  
 Date: Aug. 2008  
 Sheet: 1/09  
 Drawing No.: M/I



**Notes:**  
 - All dimensions are in meters unless otherwise indicated.  
 - Grids refer to the Palestinian "Grid System".  
 - Exact dimensions and levels shall be measured on site, and shall be approved by the supervision engineer.

**Legend:**  
**Plant:**  
 Canal Centertine  
 HDPE pipeline  
 Fence  
 Paved Roads  
 Track Roads  
 Pedestrian Path  
 Wall  
 Building  
 Plastic House  
 Bridge  
 Pool  
 Bench Mark  
 Electric or Telephone Pole  
 Water Meter  
 Gate Valve  
 Check Valve  
 Pressure Reducing Valve  
 Air Valve  
 Washout

**Profile:**  
 Natural Ground Level(NGL)  
 New Pipeline  
 HDPE  
 High Density Polyethylene Pipe

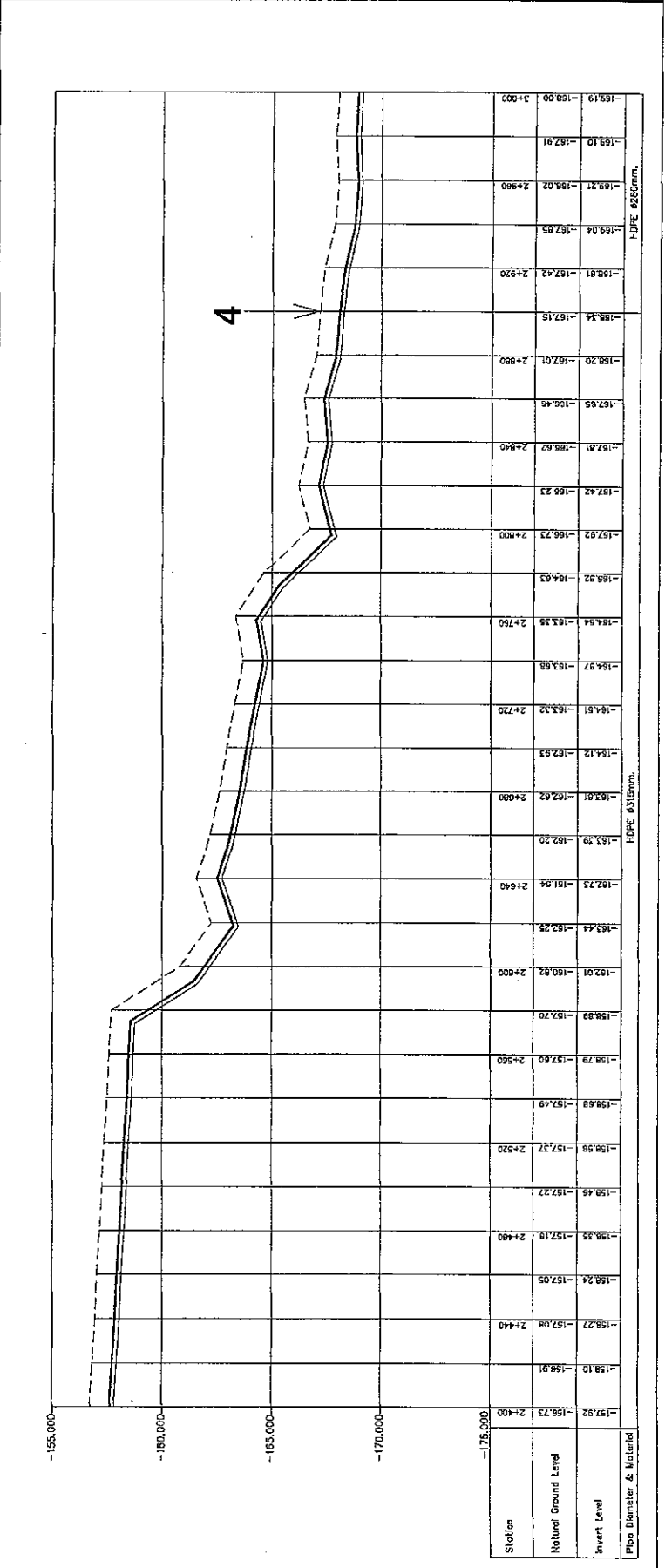
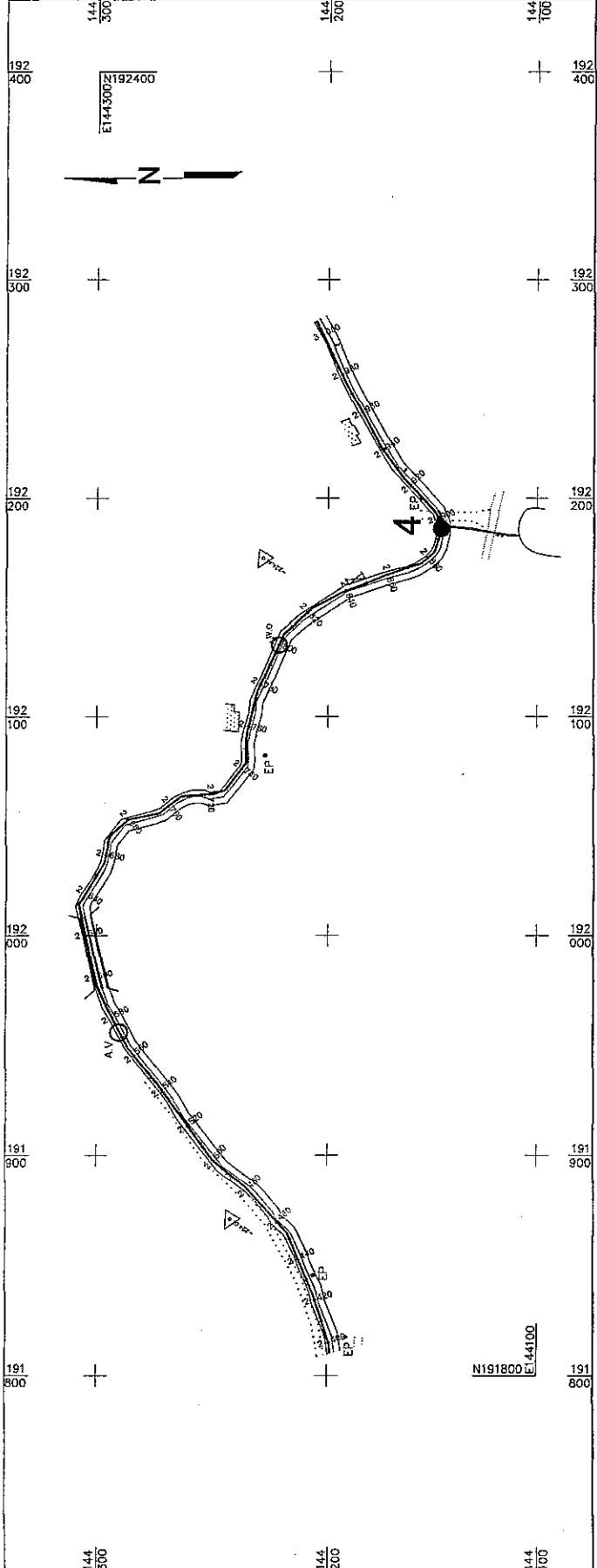
**REVISIONS**

No.	DATE	NO.	DESCRIPTION

**NIPPON KOEI CO., LTD.**  
**JICA**

**IRRIGATION SYSTEM IN THE VILLAGES OF NUREISH-JORDAN VALLEY**  
 Plan/Profile--Main pipeline  
 STA. 2+400 To STA. 3+000  
 Scale : 1/1000 (H/2000 V) Date : Aug 2008 Drawing : 00

Sheet No. : 005 Quantity : \_\_\_\_\_



**Notes:**  
 - All dimensions are in meters unless otherwise indicated.  
 - Grids refer to the Palestinian "Grid System".  
 - Exact dimensions and levels shall be measured on site, and shall be approved by the supervision engineer.

**Legend :**  
 Plan:

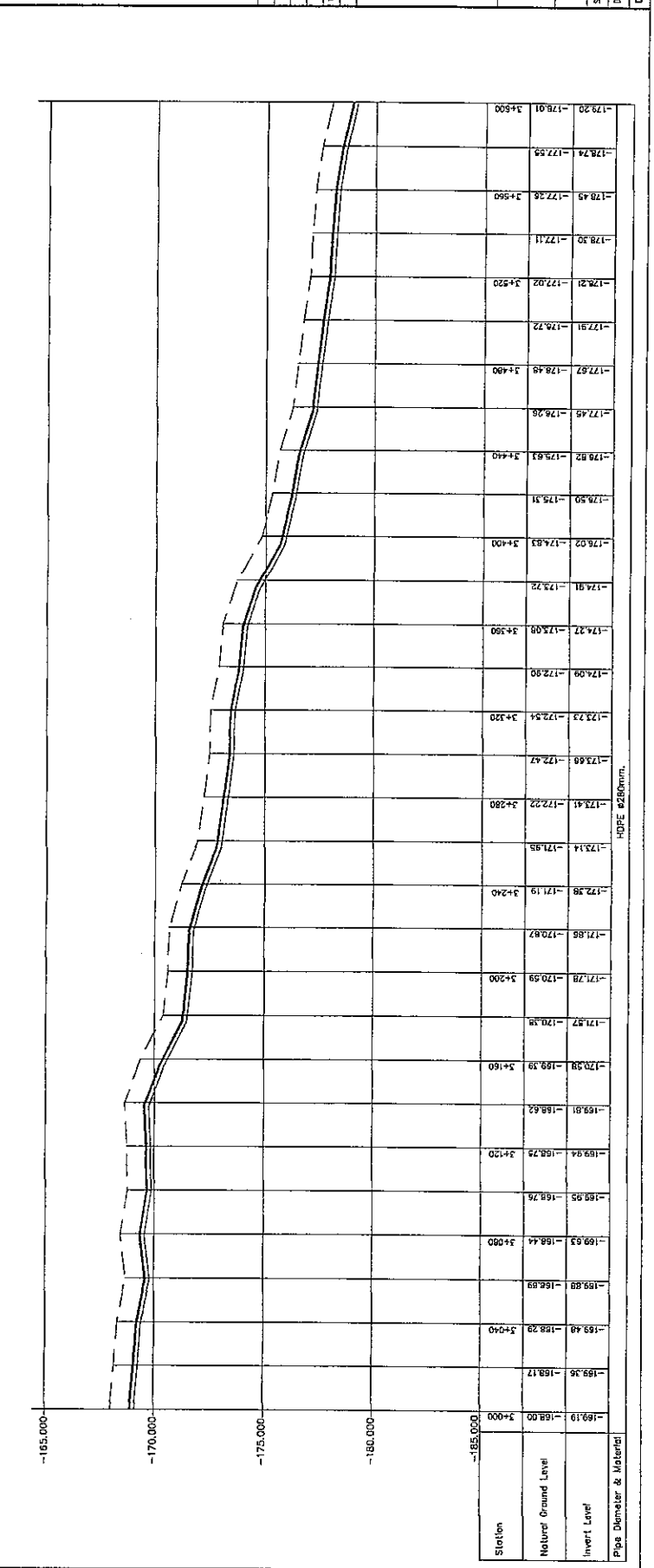
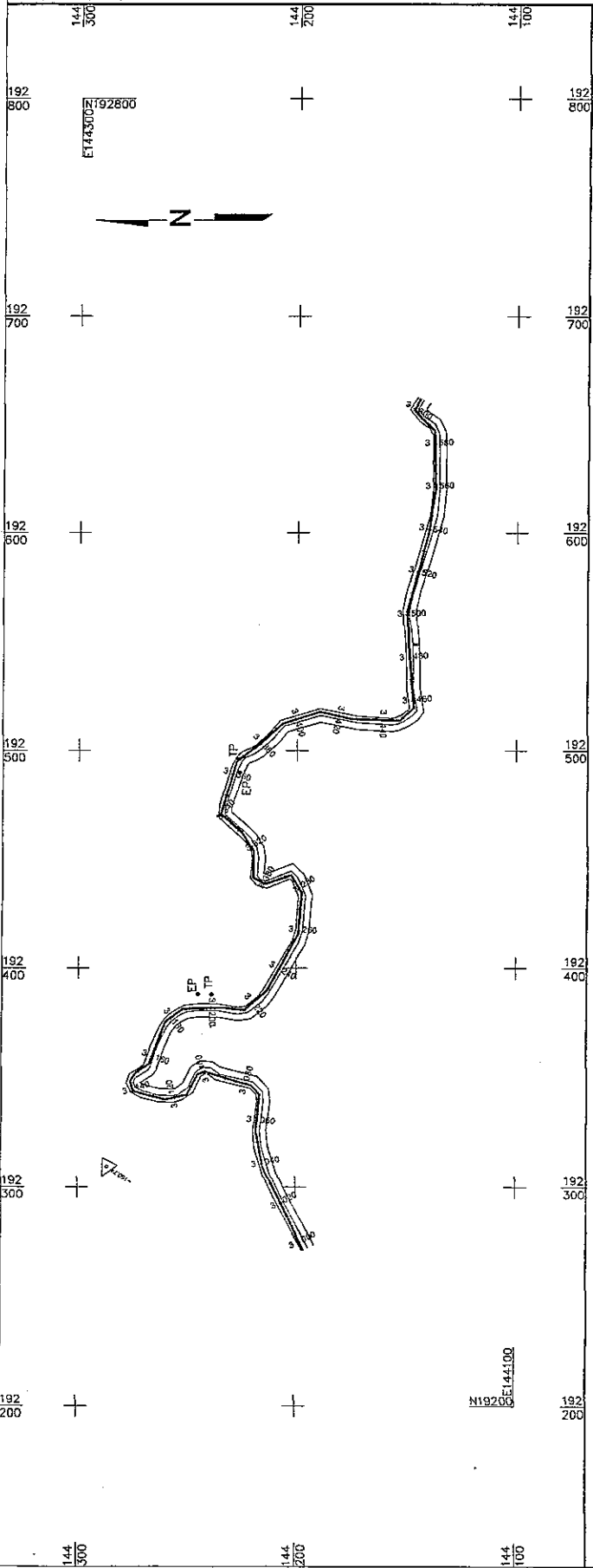
- Canal Centerline
- HDPE pipeline
- Fence
- Paved Roads
- Track Roads
- Pedestrian Path
- Wall
- Building
- Plastic House
- Bridge
- Pool
- Bench Mark
- Electric or Telephone Pole
- Water Meter
- Gate Valve
- Check Valve
- Pressure Reducing Valve
- Air Valve
- Washout

**Profile:**  
 Natural Ground Level(NGL)  
 New Pipeline  
 HDPE  
 High Density Polyethylene Pipe

REVISIONS	
No.	Description

**NIPPON KOEI CO., LTD.**  
**JICA**

IRRIGATION SYSTEM IN THE VILLAGE OF NUWEIMHAT-JORDAN VALLEY  
 Plan/Profile-Main pipeline STA. 3+000 To STA. 3+800  
 Date : 05/2004 / 2003  
 Drawn : JCB  
 Checked : JCB  
 Drawing No. : 045



**Notes:**  
 - All dimensions are in meters unless otherwise indicated.  
 - Grids refer to the Palestinian "Grid System".  
 - Exact dimensions and levels shall be measured on site, and shall be approved by the supervision engineer.

Legend:  
 Plan:

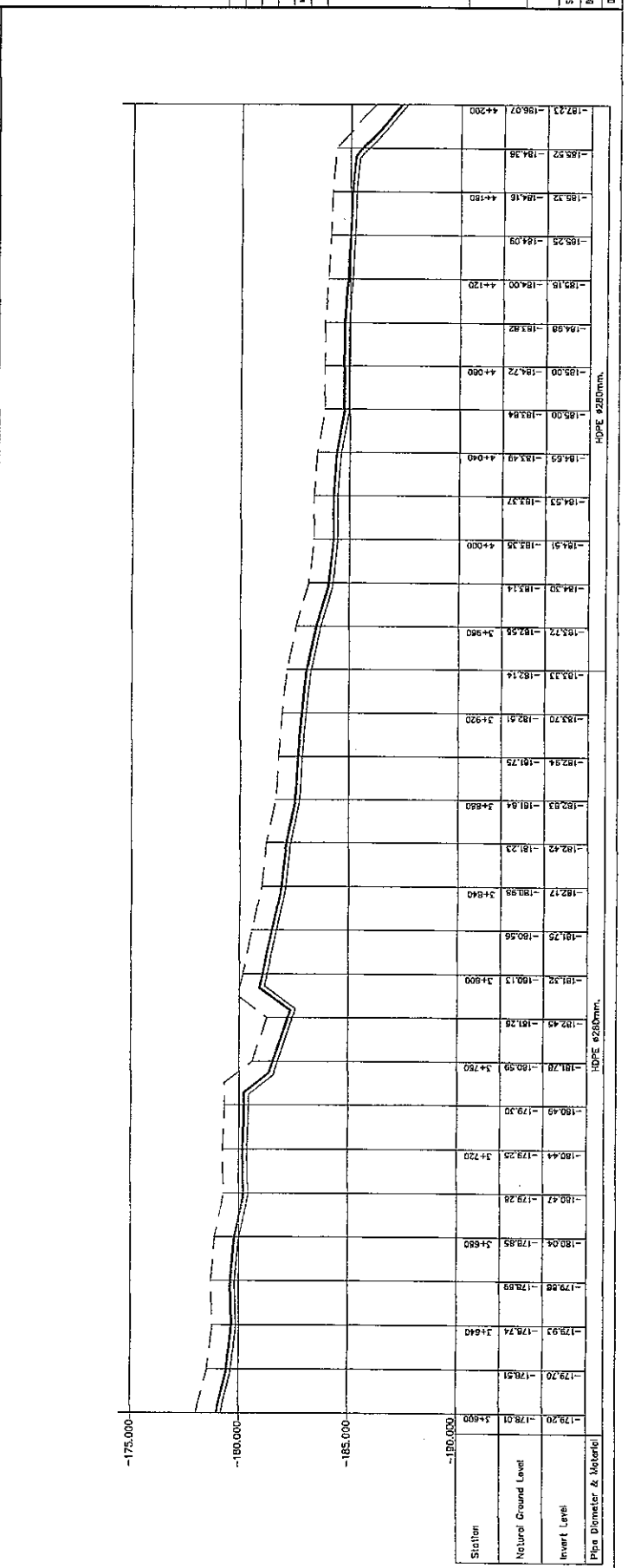
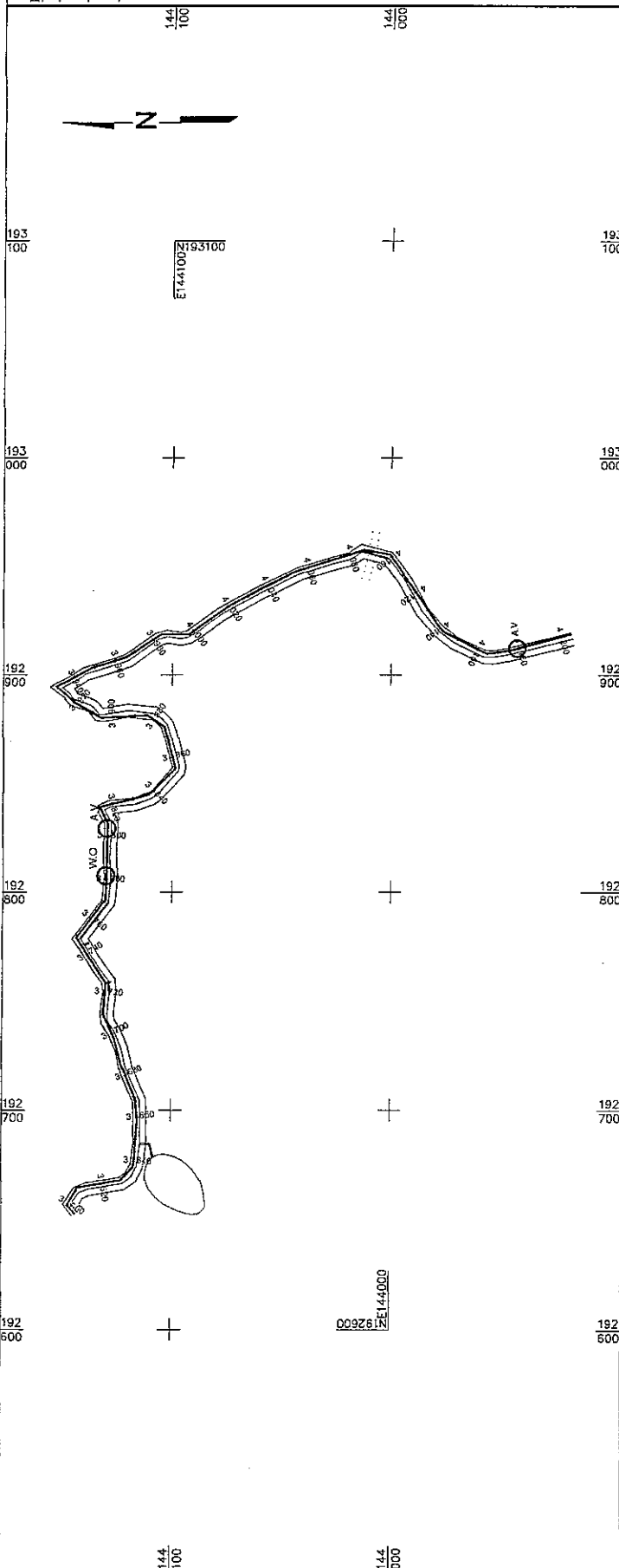
- Canal Centerline
- HDPE pipeline
- Fence
- Paved Roads
- Track Roads
- Pedestrian Path
- Wall
- Building
- Plastic House
- Bridge
- Pool
- Bench Mark
- Electric or Telephone Pole
- Water Meter
- Gate Valve
- Check Valve
- Pressure Reducing Valve
- Air Valve
- Wastout

- Profile:**
- Natural Ground Level(NGL)
  - New Pipeline
  - HDPE
  - High Density Polyethylene Pipe

REVISIONS	
No.	Description

**NIPPON KOEI CO., LTD.**  
**jica**

IRRIGATION SYSTEM IN THE VILLAGE OF NUWEHESH-JORDAN VALLEY  
 Plan/Profile - Main pipeline  
 STA. 9+800 To STA. 4+800  
 Scale : 1/1200 (H/200)  
 Date : Aug. 2008  
 Sheets : 05  
 Drawing No. : 8/7





**Notes:**

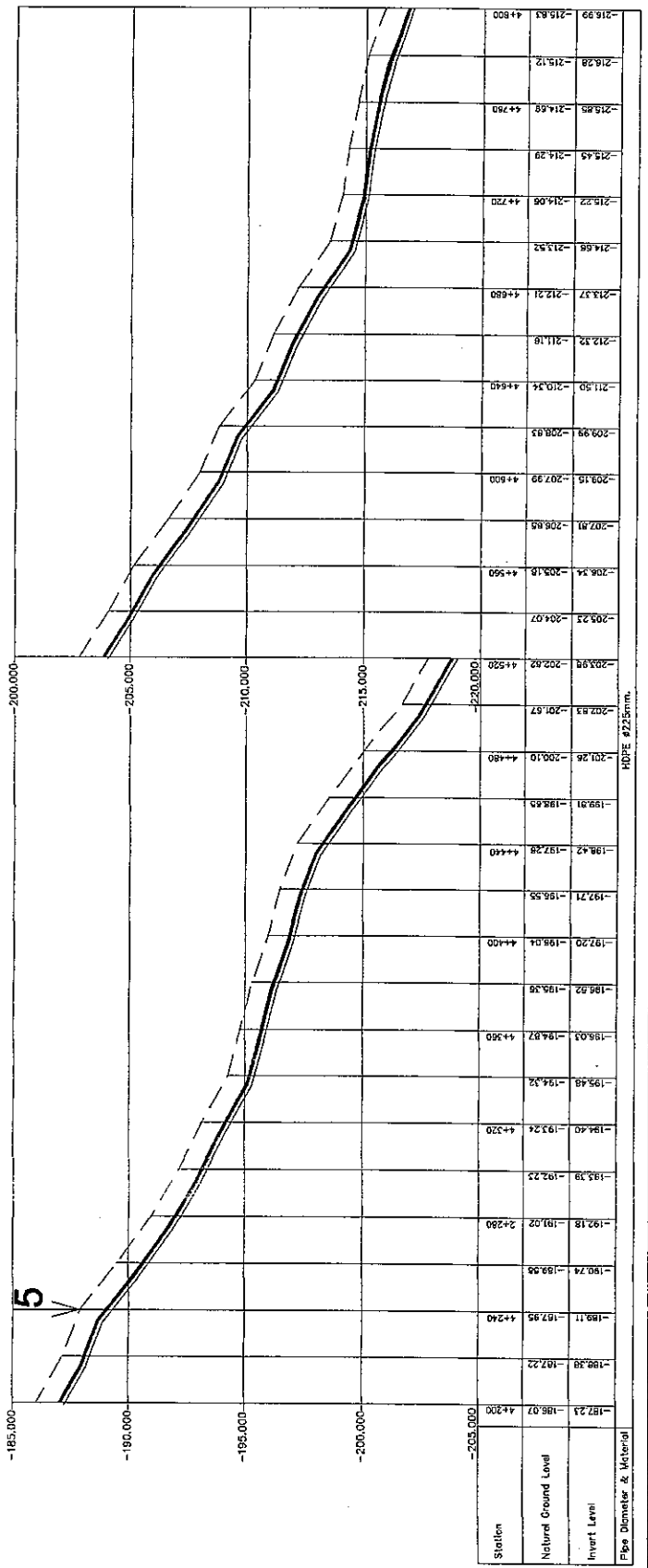
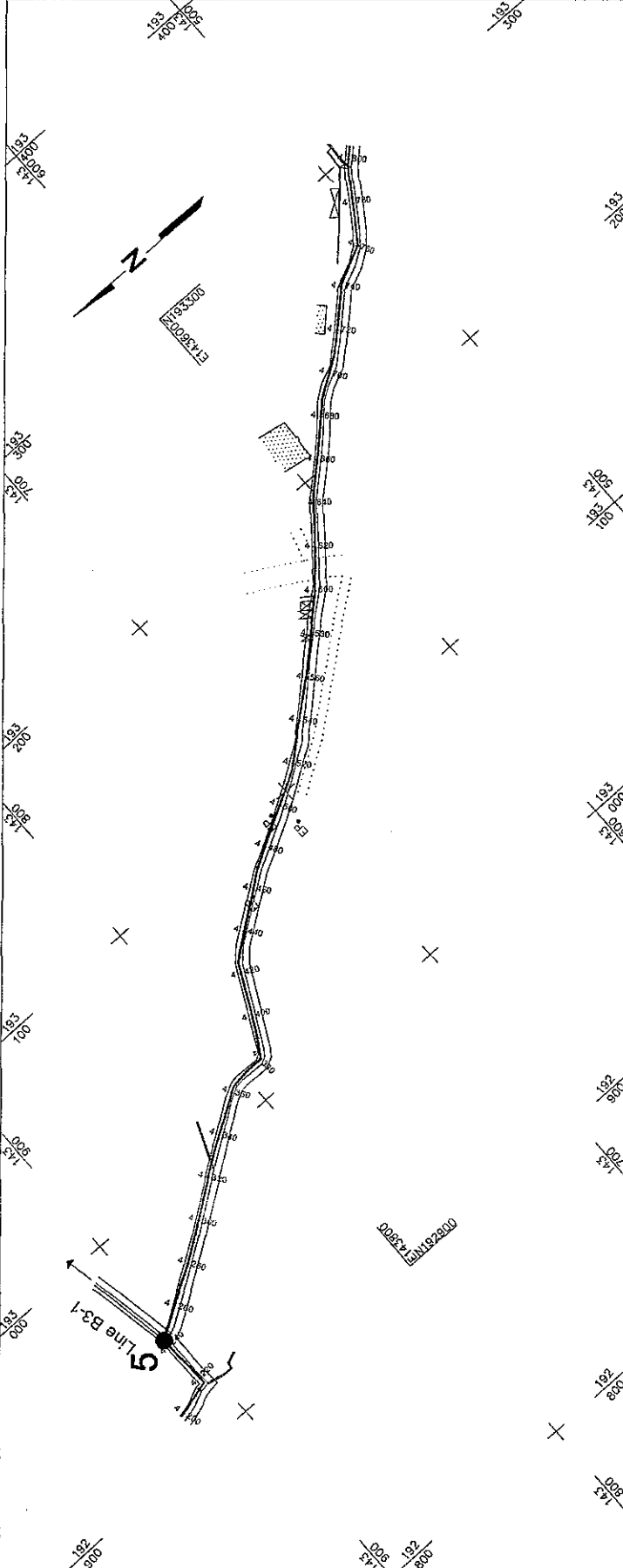
- All dimensions are in meters unless otherwise indicated.
- Grids refer to the Palestinian "Grid System".
- Exact dimensions and levels shall be measured on site, and shall be approved by the supervision engineer.

**Legend:**

- Plant:**
- Canal Centerline
  - HDPE pipeline
  - Fences
  - Paved Roads
  - Track Roads
  - Pedestrian Path
  - Wall
  - Building
  - Bridge
  - Pool
  - Bench Mark
  - Electric or Telephone Pole
  - Water Meter
  - Gate Valve
  - Check Valve
  - Pressure Reducing Valve
  - Air Valve
  - Washout
- Profile:**
- Natural Ground Level (NGL)
  - New Pipeline
  - HDPE
  - High Density Polyethylene Pipe

**NIPPON KOEI CO., LTD.**

IRRIGATION SYSTEM IN THE VILLAGE OF NUMEHEH-JORDAN VALLEY  
 Plan/Profile - Main Pipeline  
 STA. 4+200 To STA. 4+500  
 Scale: 1/1,200 (H/200 V/200) Design :  
 Date : Sep. 2003 Revise : 00  
 Drawing No. : 103  
 Check by :



**Notes:**  
 - All dimensions are in meters unless otherwise indicated.  
 - Grids refer to the Palestinian "Grid System".  
 - Exact dimensions and levels shall be measured on site, and shall be approved by the supervision engineer.

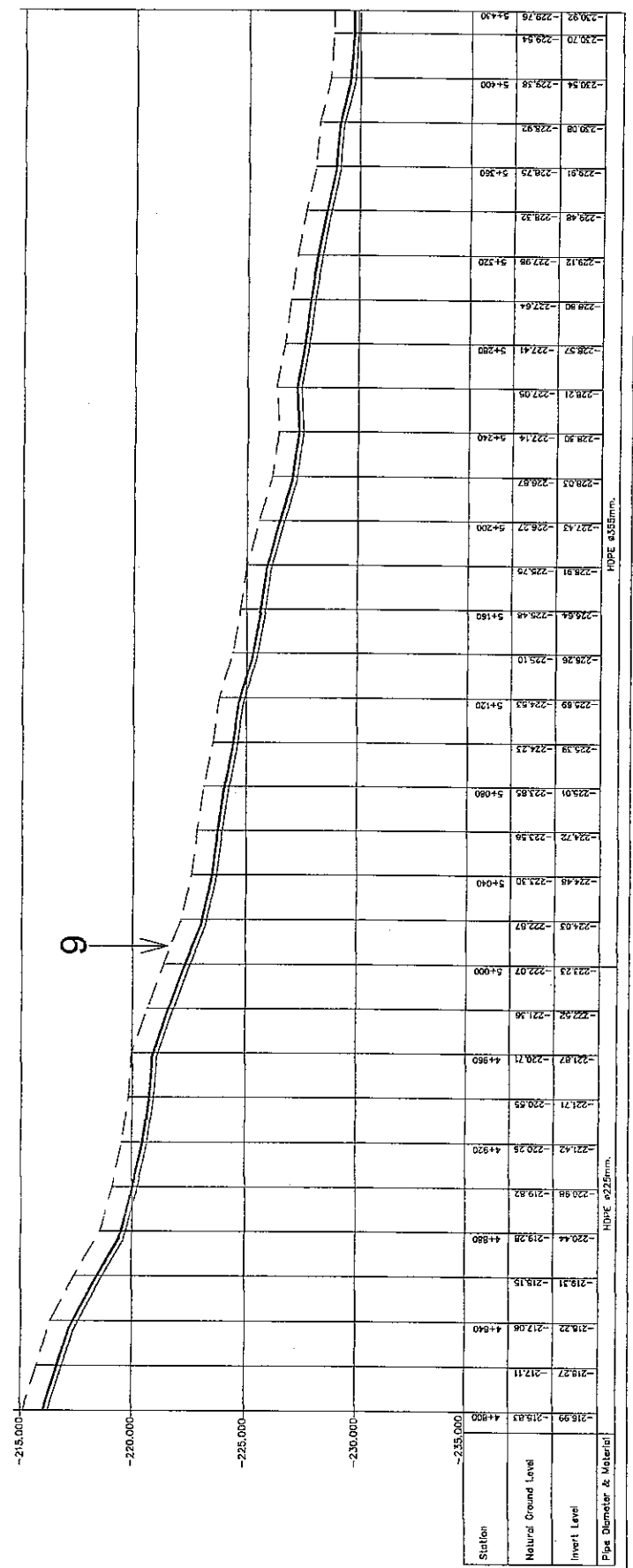
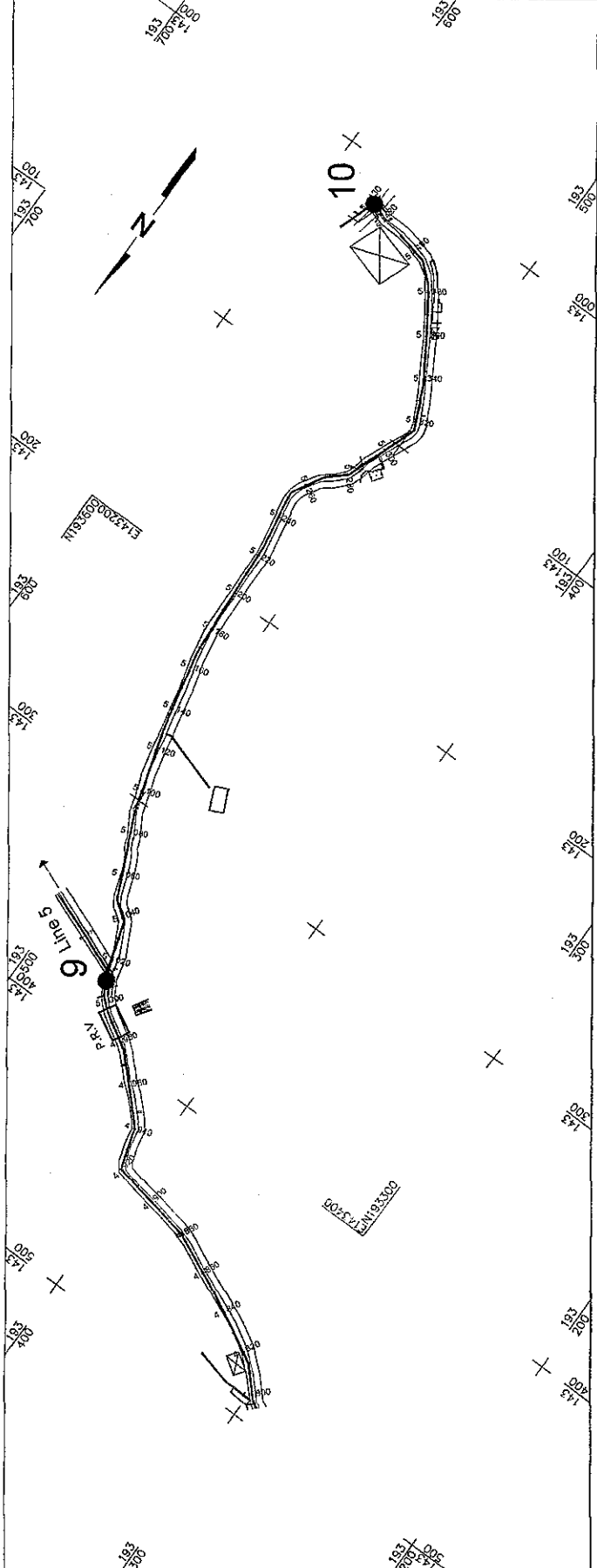
**Legend:**

- Plan:**
- Canal Centerline
  - HDPE pipeline
  - Fence
  - Paved Roads
  - Track Roads
  - Pedestrian Path
  - Wall
  - Building
  - Plastic House
  - Bridge
  - Pool
  - Bench Mark
  - Electric or Telephone Pole
  - Water Meter
  - Gate Valve
  - Check Valve
  - Pressure Reducing Valve
  - Air Valve
  - Washout
- Profile:**
- Natural Ground Level(NGL)
  - New Pipeline
  - HDPE
  - High Density Polyethylene Pipe

REVISIONS	
No.	Description

**NIPPON KOEI CO., LTD.**  
**JICA**

IRRIGATION SYSTEM IN THE VILLAGE OF NUNZHEI-JORDAN VALLEY  
 Plan/Profile-Main pipeline  
 STA. 4+000 To STA. 5+400  
 Scale: 1/100 (H)/1/100 (V)  
 Date: Aug. 2008  
 Drawing No.: 109  
 Checked: \_\_\_\_\_

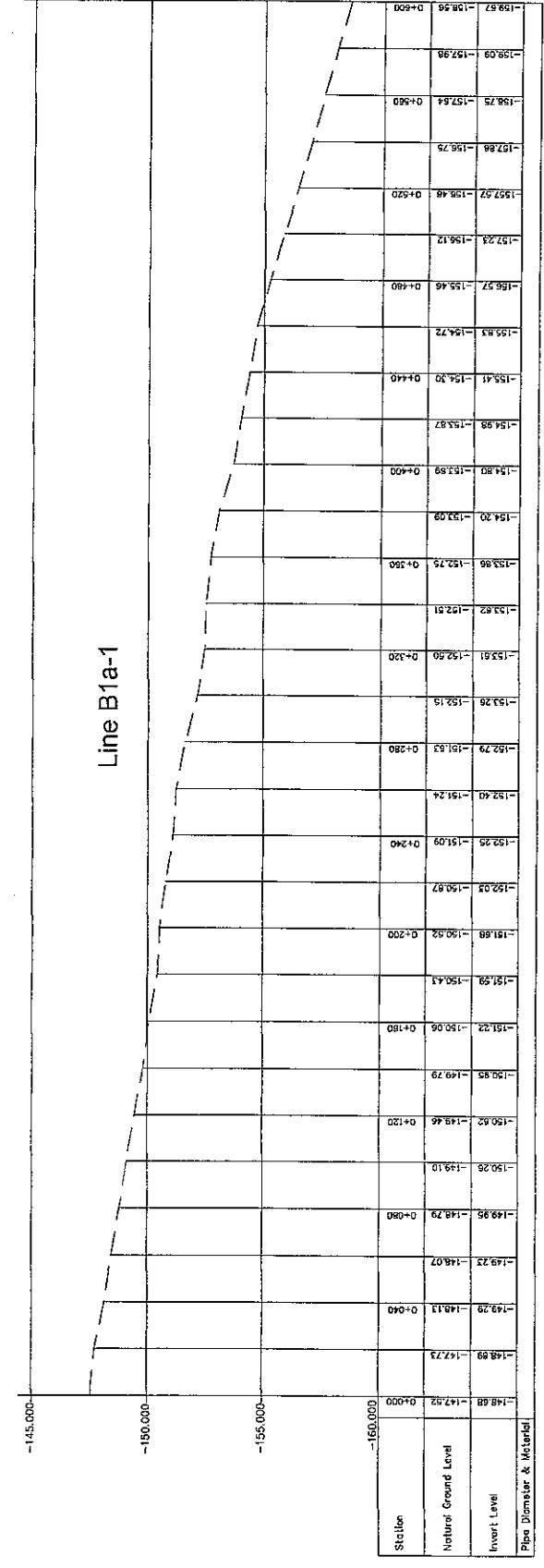
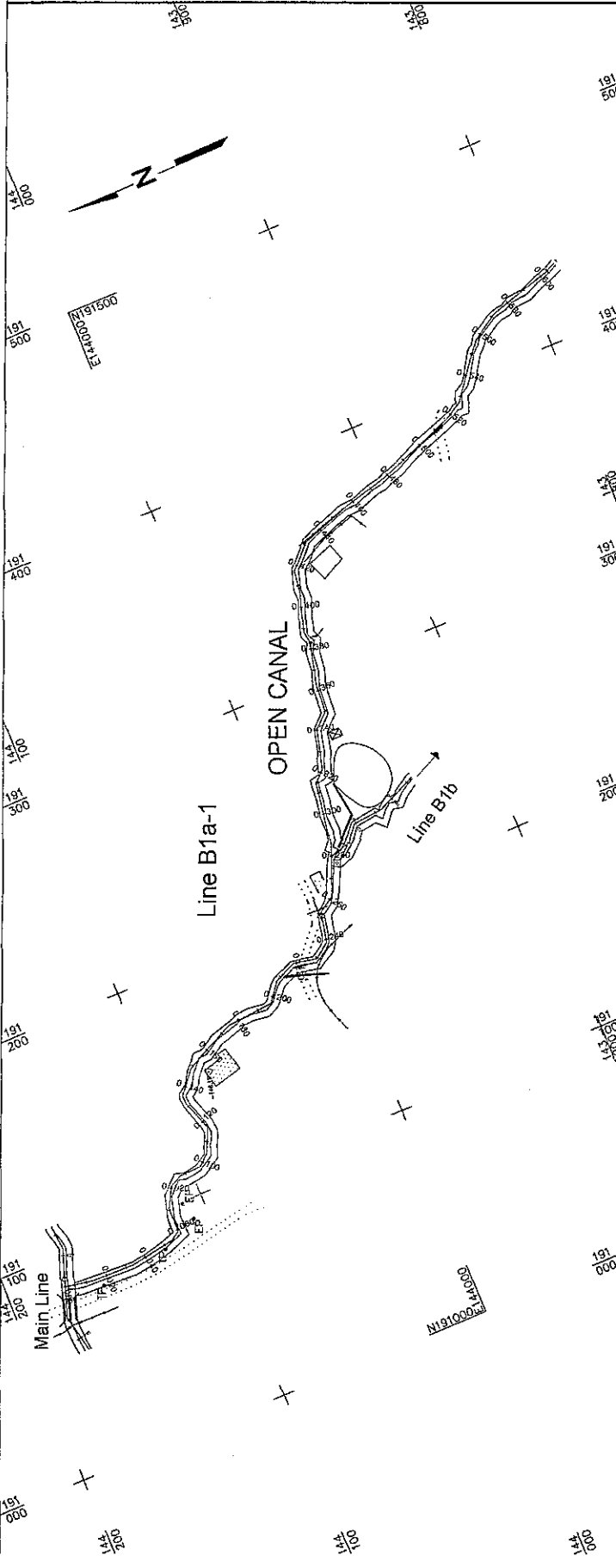


**Notes:**

- All dimensions are in meters unless otherwise indicated.
- Grids refer to the Palestinian "Grid System".
- Exact dimensions and levels shall be measured on site, and shall be approved by the supervision engineer.

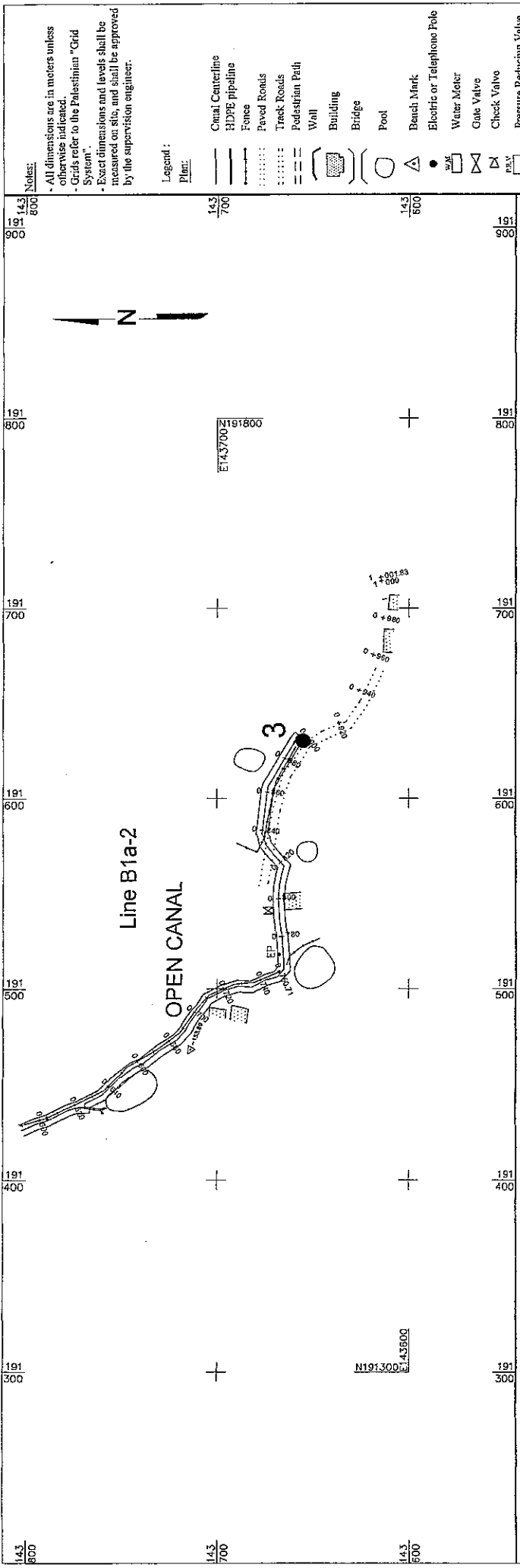
**Legend:**

- Plan:**
- Canal Centerline
  - HDPE pipeline
  - Fence
  - Paved Roads
  - Track Roads
  - Pedestrian Path
  - Wall
  - Building
  - Plastic House
  - Bridge
  - Pool
  - Bench Mark
  - Electric or Telephone Pole
  - Water Meter
  - Gate Valve
  - Check Valve
  - Pressure Reducing Valve
  - Air Valve
  - Washout
- Profile:**
- Natural Ground Level (NGL)
  - New Pipeline
  - HDPE
  - High Density Polyethylene Pipe



**NIPPON KOEI CO., LTD.**  
**JICA**

IRRIGATION SYSTEM IN THE VALLEY OF JERUSALEM-JORDAN VALLEY  
 Plan/Profile-Pipeline B1a-1  
 STA. 0+000 To STA.0+600  
 Scale 1:500 (H/200) (V/100)  
 Date 1 Aug. 2003  
 Drawing No. I-B1a-1  
 Page 1 of 2



**Notes:**

- All dimensions are in meters unless otherwise indicated.
- Grids refer to the Palestinian "Grid System".
- Exact dimensions and levels shall be measured on site, and shall be approved by the supervision engineer.

**Legend:**

**Plan:**

- Canal Centerline
- HDPE pipeline
- Fence
- Paved Roads
- Track Roads
- Pedestrian Path
- Wall
- Building
- Bridge
- Pool
- Beach Mark
- Electric or Telephone Pole
- Water Meter
- Gate Valve
- Check Valve
- Pressure Rethching Valve
- Air Valve
- Washout

**Profile:**

- Natural Ground Level(NGL)
- New Pipeline
- HDPE
- High Density Polyethylene Pipe

NO	DATE	BY	CHK	APP	REVISIONS

**NIPPON KOEI CO., LTD.**

**JICA**

IRRIGATION SYSTEM IN THE VILLAGES OF NUTREHEH-JORDAN VALLEY

Plant Profile-pipeline B1a-2

ETB. 0+000 To ETB. 1+001.83

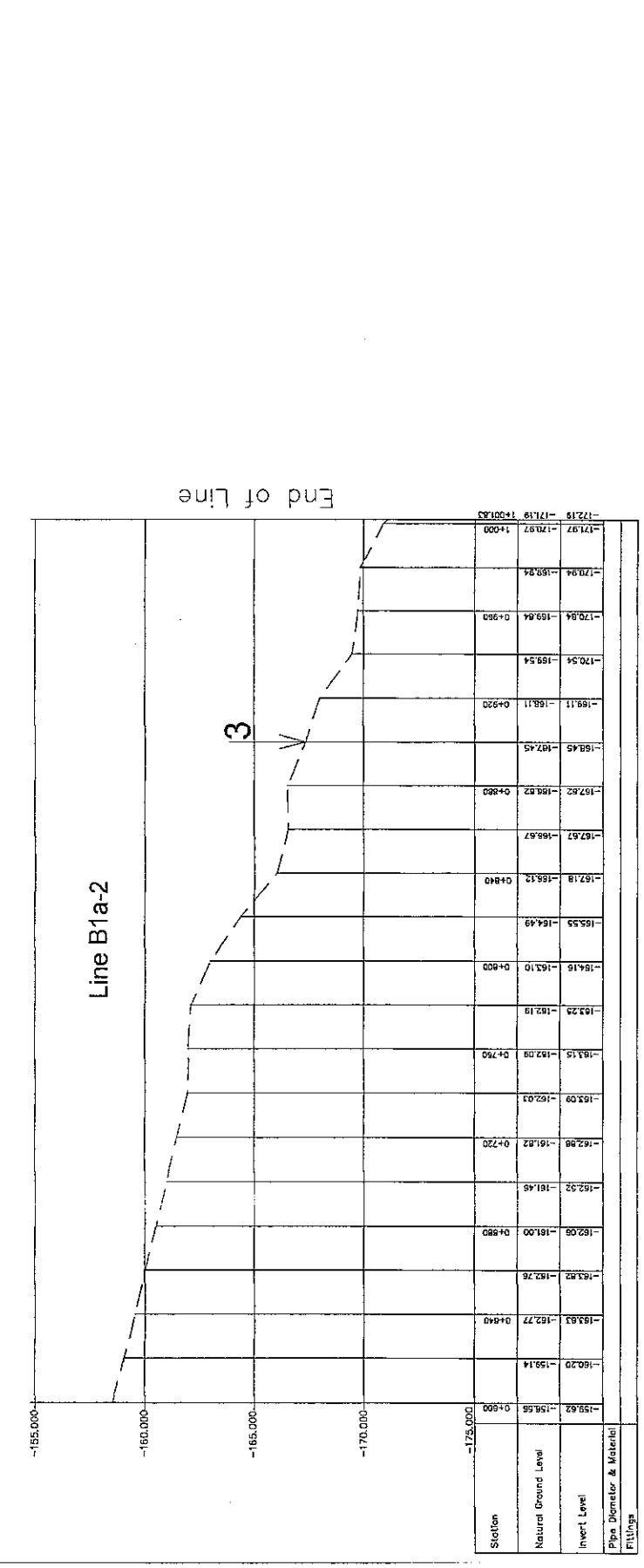
Scale: 1/43500 (H/200) (V=1:100)

Date: Aug. 2008

Sheet: 00

Drawing No.: B1a-2

Project: 1



**Notes:**

- All dimensions are in meters unless otherwise indicated.
- Grids refer to the Palestinian "Grid System".
- Exact dimensions and levels shall be measured on site, and shall be approved by the supervision engineer.

**Legend:**

**Plan:**

- Canal Centerline
- HDPE pipeline
- Fence
- Paved Roads
- Track Roads
- Pedestrian Path
- Wall
- Building
- Plastic House
- Bridge
- Pool
- Bench Mark
- Electric or Telephone Pole
- Water Meter
- Gate Valve
- Check Valve
- Pressure Reducing Valve
- Air Valve
- Washout

**Profile:**

- Natural Ground Level (NGL)
- New Pipeline
- HDPE
- High Density Polyethylene Pipe

**REVISIONS**

No.	By	Date	Description

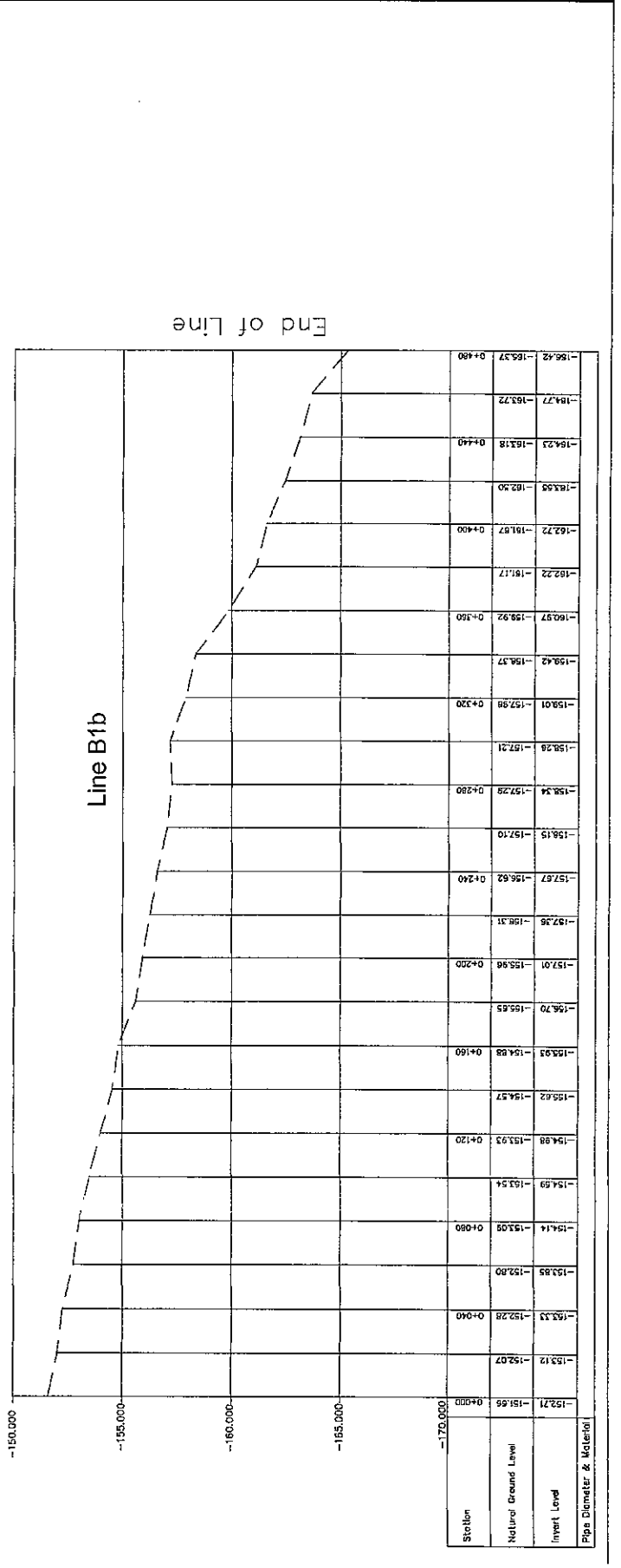
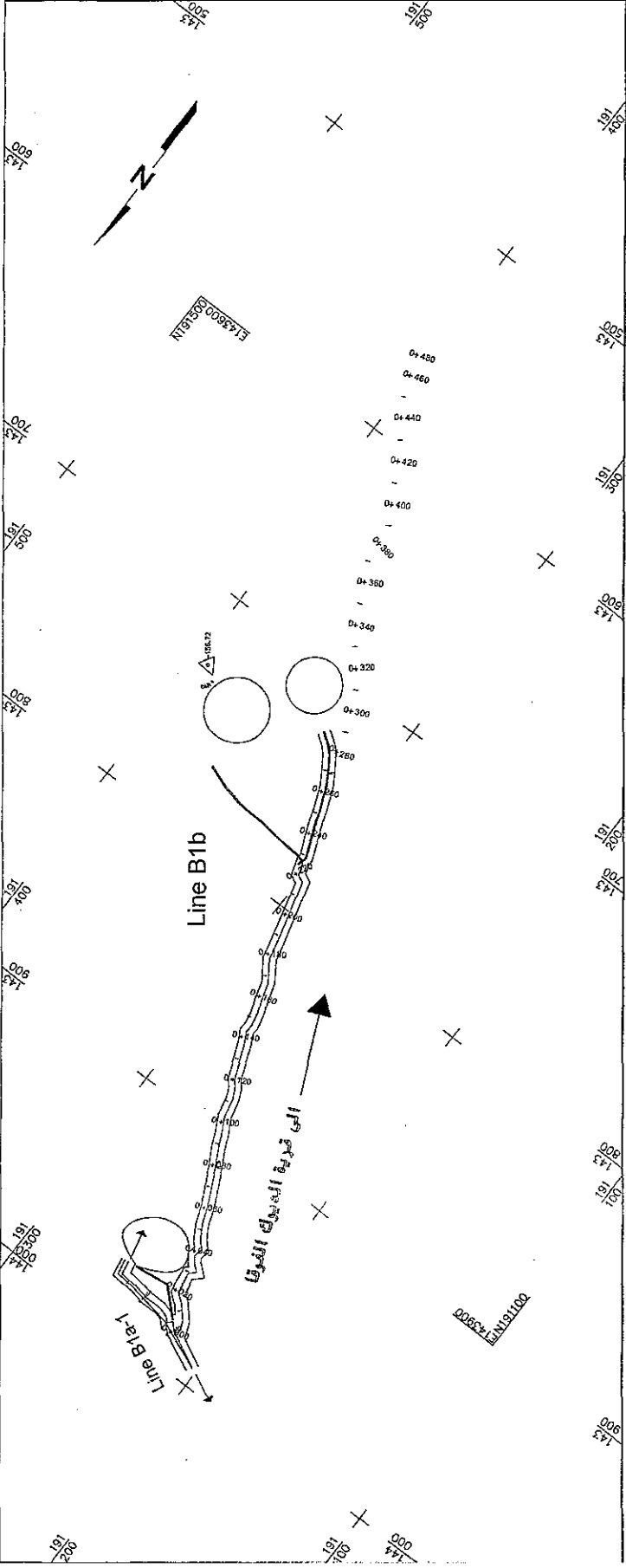
**NIPPON KOEI CO., LTD.**

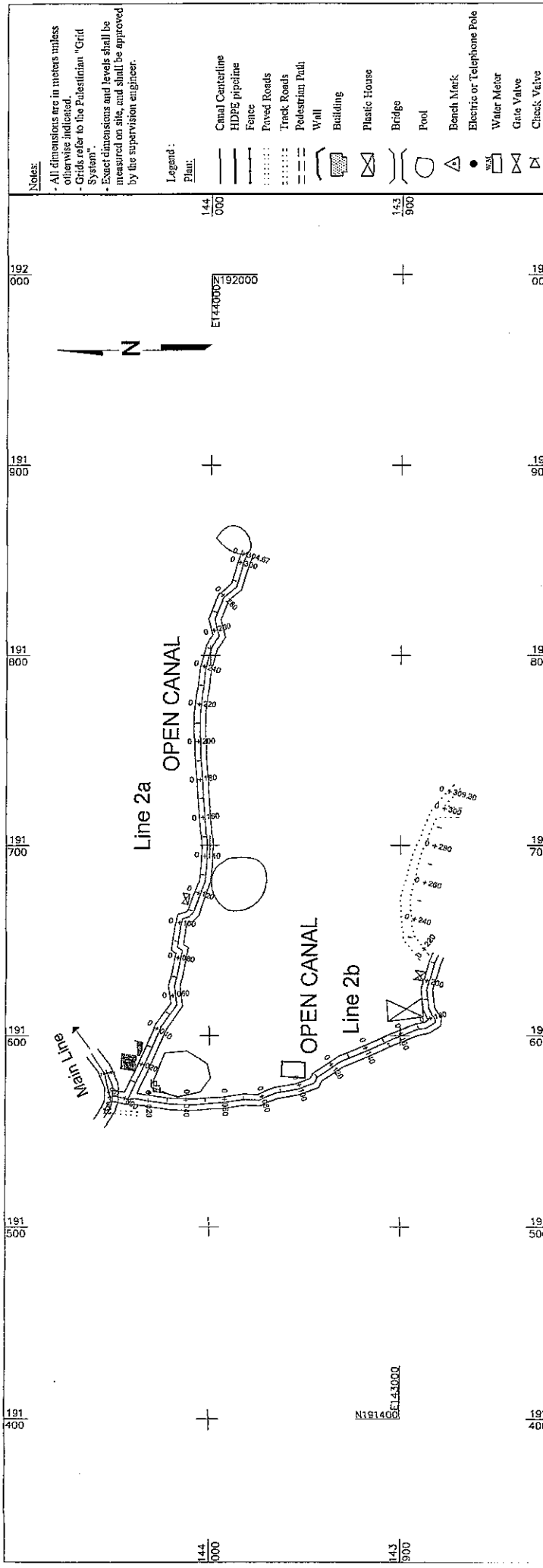
**JICA**

**IRRIGATION SYSTEM IN THE VILLAGES OF NUREMBER-JORDAN VALLEY**

**Plan/Profile-Pipeline B1b**  
 STA.0+000 To STA.0+480

Scale: 1/200 H/200 V/200  
 Date: Aug. 2008  
 Drawing: 010  
 Drawing No.: B1b  
 Drawing: 010





**REVISIONS**

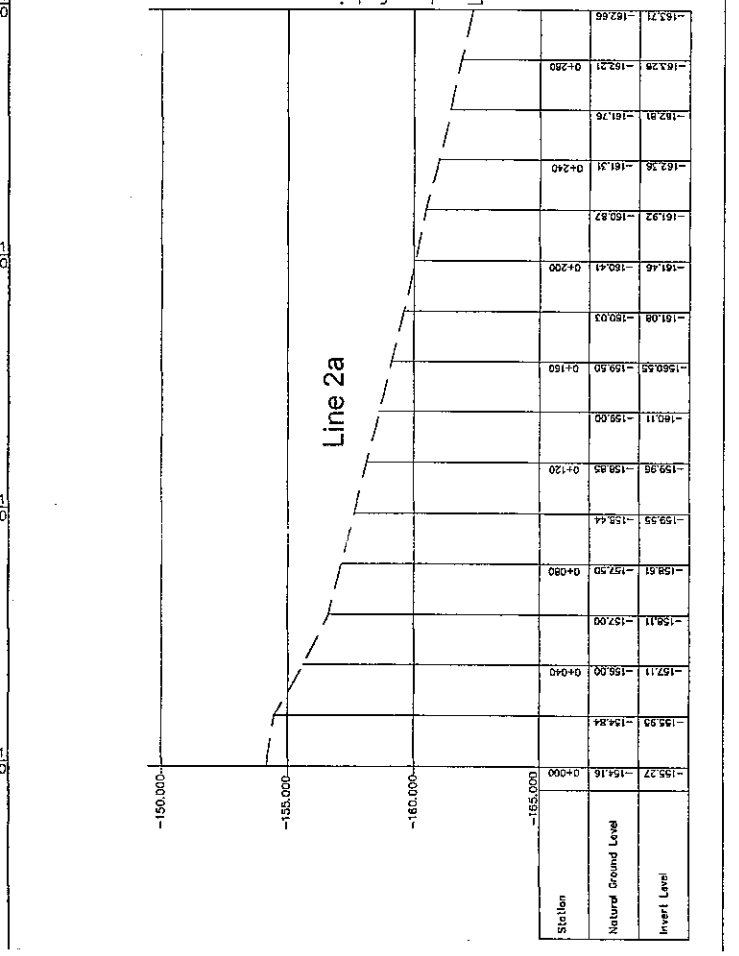
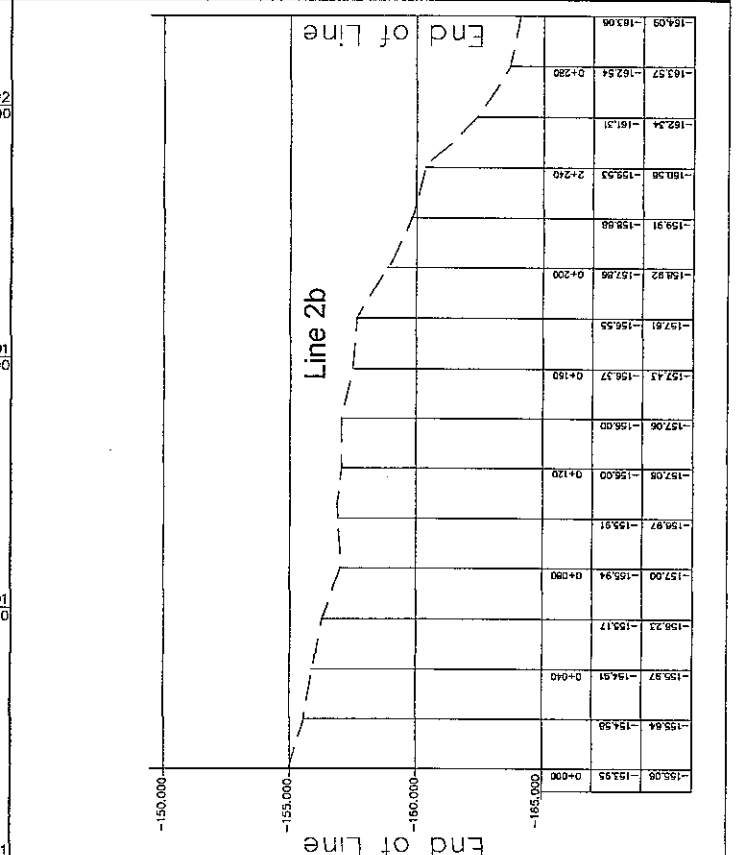
No.	By	Date	Remarks

**NIPPON KOEI CO., LTD.**

**JICA**

**IRRIGATION SYSTEM IN THE VILLAGE OF NUNEMER-JORDAN VALLEY**

Plan/Profile - Pipeline #2 sub  
 (A) STA. 0+000 TO STA. 0+500  
 (B) STA. 0+500 TO STA. 0+900  
 Date: 17/2014/2014  
 Scale: 1:500  
 Drawing: 00  
 Drawing No.: 02ab



**Notes:**

- All dimensions are in meters unless otherwise indicated.
- Grids refer to the Palestinian "Grid System".
- Exact dimensions and levels shall be measured on site, and shall be approved by the supervision engineer.

**Legend:**  
Plan:

- Canal Centerline
- HDPE pipeline
- Fence
- Paved Roads
- Track Roads
- Pedestrian Path
- Wall
- Building
- Plastic House
- Bridge
- Pool
- Bench Mark
- Electric or Telephone Pole
- Water Meter
- Gate Valve
- Check Valve
- Pressure Reducing Valve
- Air Valve
- Washout

**Profile:**

- Natural Ground Level(NGL)
- New Pipeline
- HDPE
- High Density Polyethylene Pipe

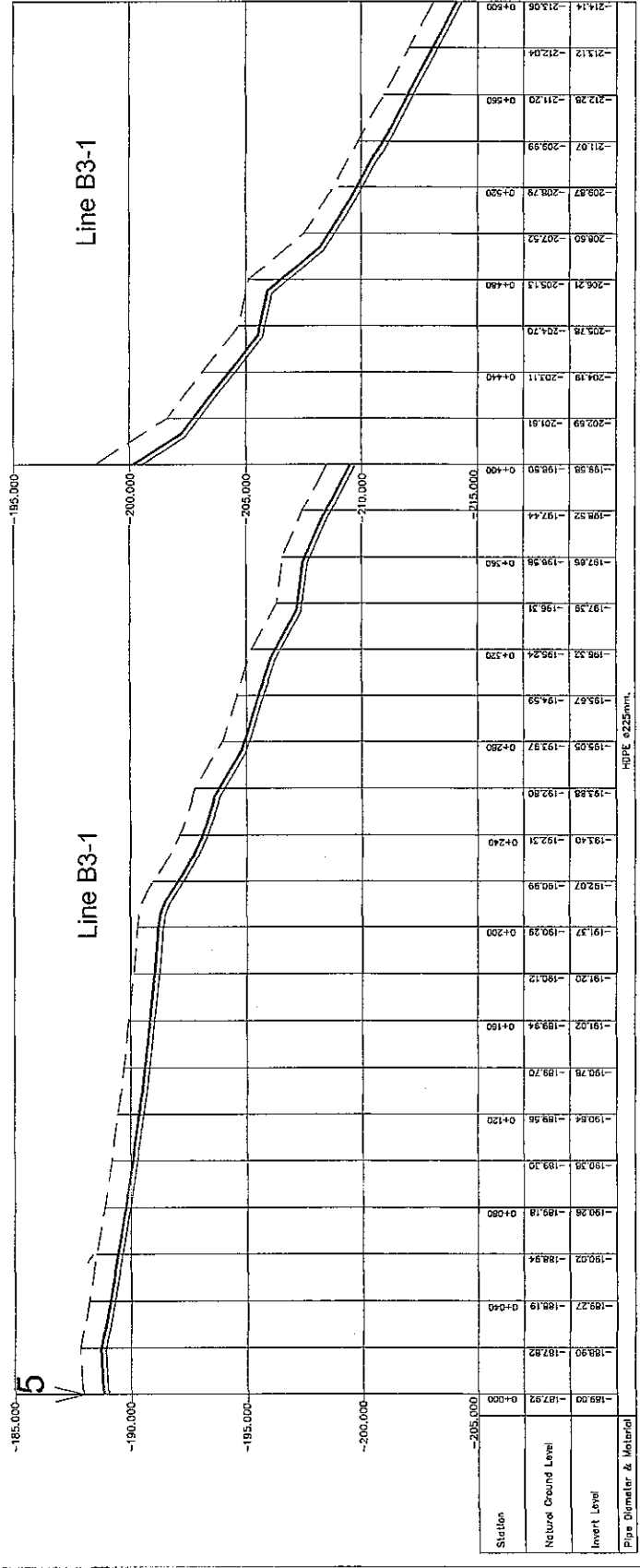
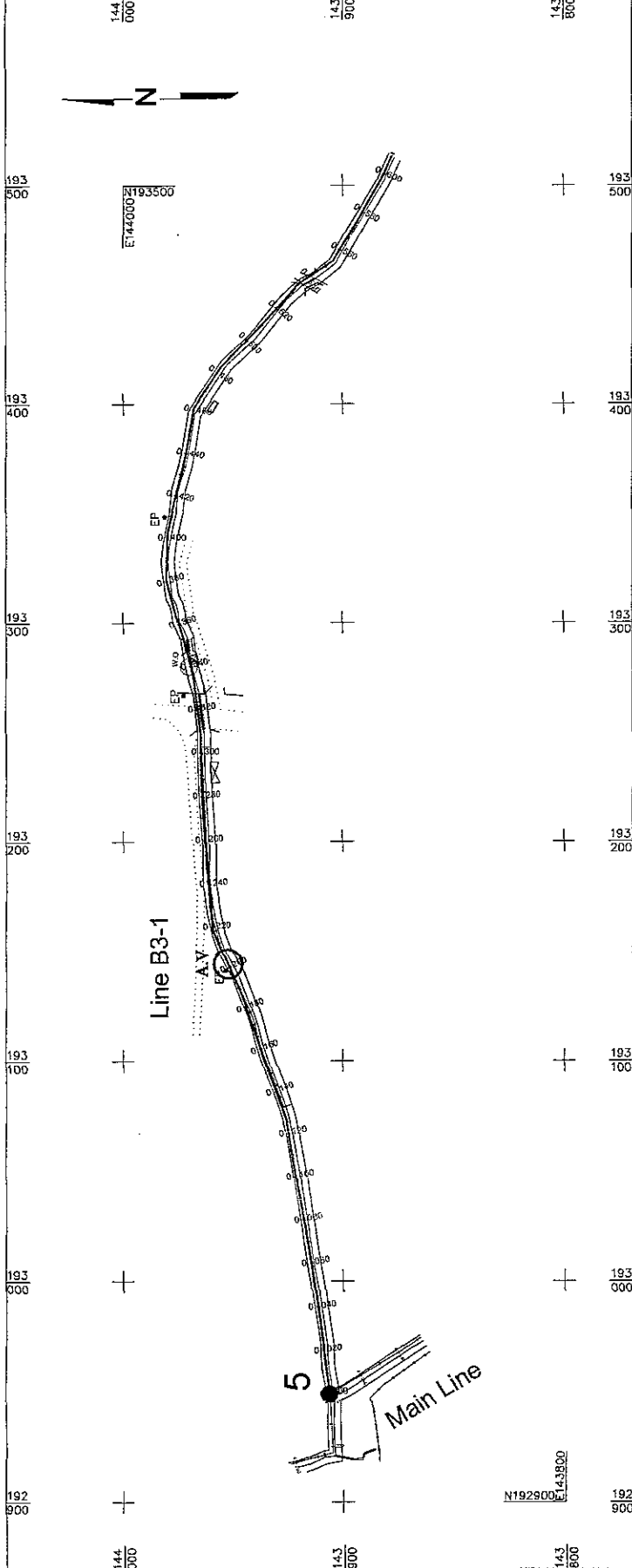
NO	DATE	BY	CHK	APP	REVISIONS

NIPPON KOEI CO., LTD.



IRRIGATION SYSTEM IN THE VILLAGE OF NUMERIM-JORDAN VALLEY  
 Plan/Profile-Pipeline BR-1  
 STA. 0+000 To STA.0+400

Scale: 1:1000 (H/200 V/200)  
 Date: 1 Aug. 2008  
 Drawing No.: BR-1



**Notes:**

- All dimensions are in meters unless otherwise indicated.
- Grids refer to the Palestinian "Grid System".
- Exact dimensions and levels shall be measured on site, and shall be approved by the supervision engineer.

**Legend:**

**Plan:**

- Canal Centerline
- HDPE pipeline
- Fence
- Paved Roads
- Track Roads
- Pedestrian Path
- Wall
- Building
- Plastic House
- Bridge
- Foot
- Bench Mark
- Electric or Telephone Pole
- Water Meter
- Gate Valve
- Check Valve
- Pressure Reducing Valve
- Air Valve
- Washout

**Profile:**

- Natural Ground Level (NGL)
- New Pipeline
- HDPE
- High Density Polyethylene Pipe

REVISIONS	
No.	Description

NIPPON KOEI CO., LTD.



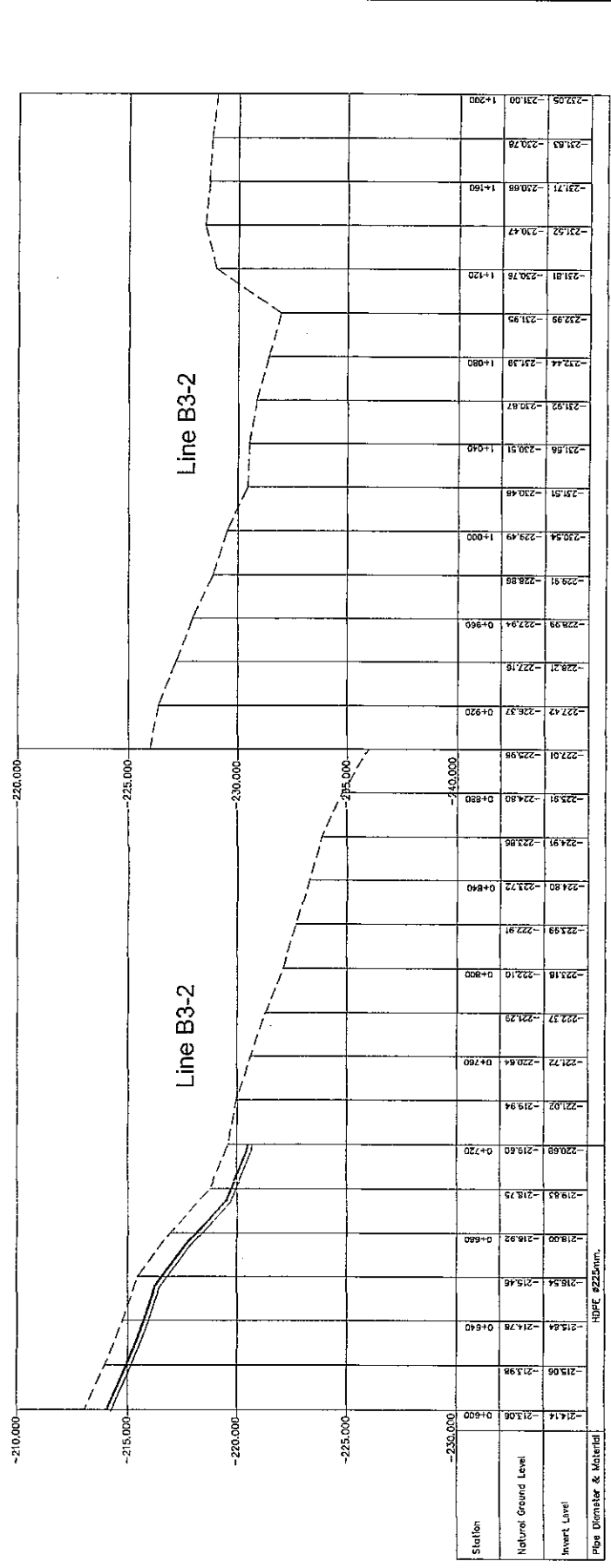
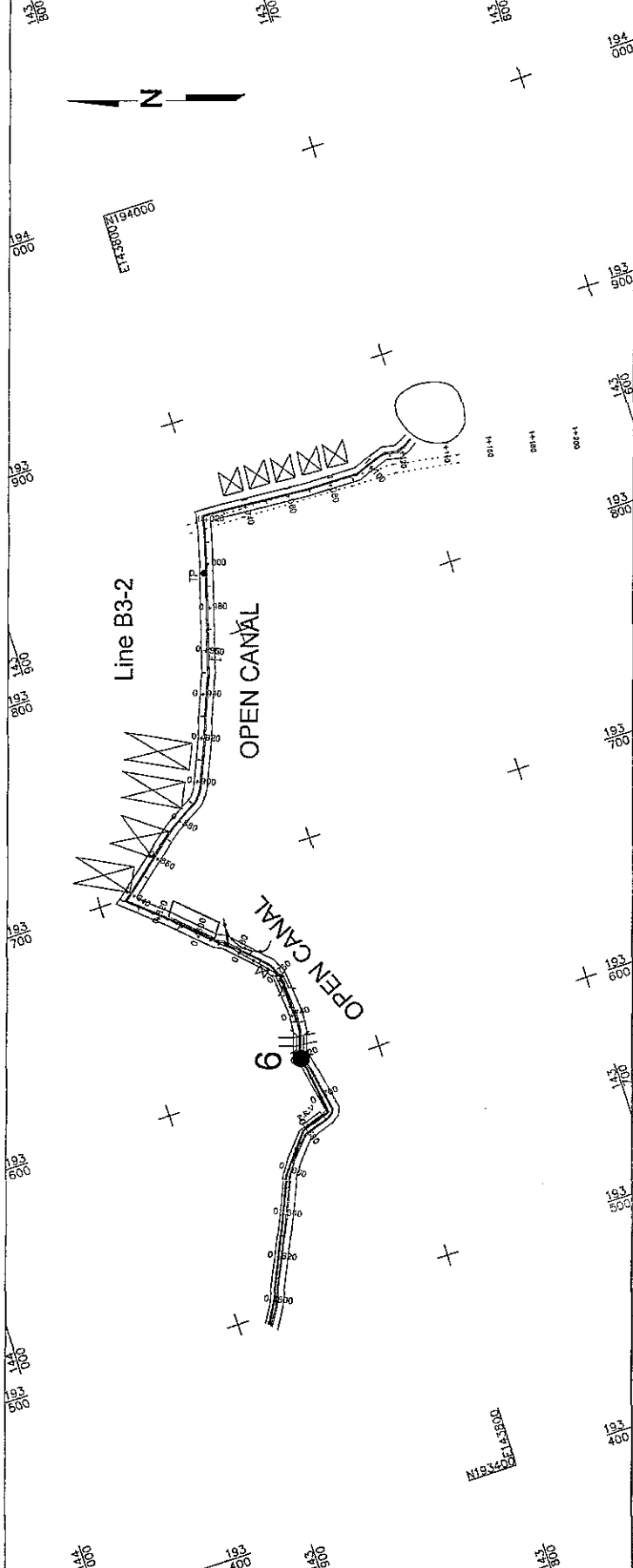
IRRIGATION SYSTEM IN THE VILLAGE OF NUMERHEI-JORDAN VALLEY  
Plan/Profile-Pipeline B3-2  
STA. 0+600 To STA. 1+200

Scale: 1:10,000 (1/2000)

Date: Aug. 2003

Drawing No.: B3-2

Project:



Station	Natural Ground Level	Invert Level	Pipe Diameter & Material
0+600	-214.14	-213.00	0+600
0+650	-215.06	-213.98	0+650
0+700	-215.54	-214.78	0+650
0+750	-216.00	-215.46	0+650
0+800	-216.92	-216.92	0+650
0+850	-218.00	-218.92	0+650
0+900	-219.85	-218.75	0+720
0+950	-219.60	-219.60	0+720
1+000	-221.02	-219.94	0+780
1+050	-221.72	-220.64	0+780
1+100	-222.37	-221.29	0+800
1+150	-223.18	-222.10	0+800
1+200	-223.99	-222.91	0+840
1+250	-224.80	-223.72	0+840
1+300	-225.91	-244.80	0+880
1+350	-227.01	-225.98	0+880
1+400	-227.42	-226.37	0+920
1+450	-228.21	-227.18	0+960
1+500	-228.99	-227.94	0+960
1+550	-229.91	-228.85	1+000
1+600	-230.54	-229.49	1+000
1+650	-231.51	-230.48	1+040
1+700	-231.86	-230.51	1+040
1+750	-232.44	-231.39	1+080
1+800	-233.03	-232.67	1+120
1+850	-233.81	-233.78	1+120
1+900	-234.71	-234.47	1+160
1+950	-235.63	-234.78	1+160
2+000	-237.05	-237.05	1+200



**Notes:**  
 - All dimensions are in meters unless otherwise indicated.  
 - Grids refer to the Palestinian "Grid System".  
 - Exact dimensions and levels shall be measured on site, and shall be approved by the supervision engineer.

**Legend:**  
 Plant:

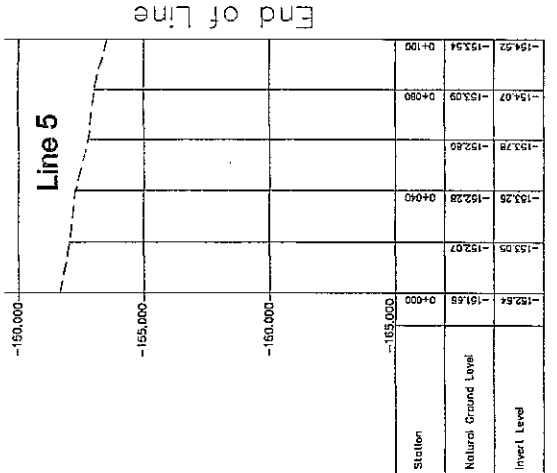
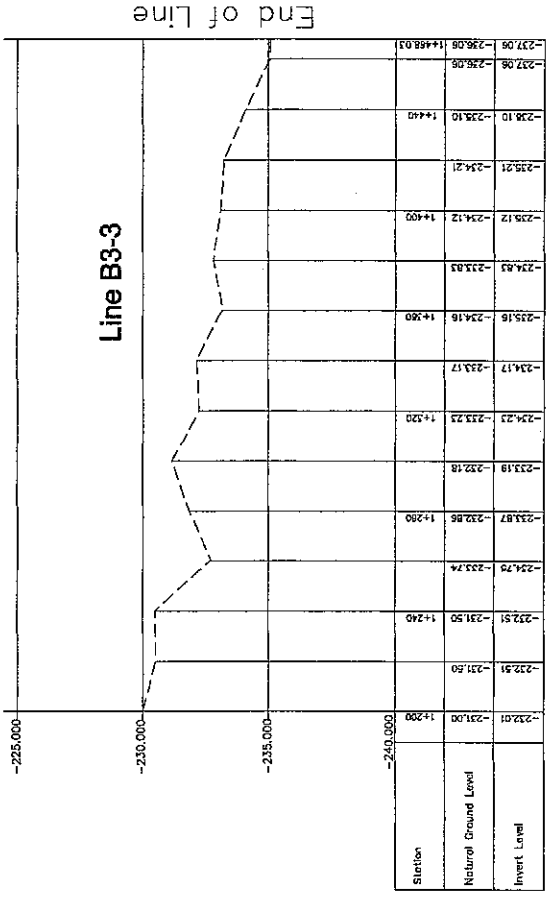
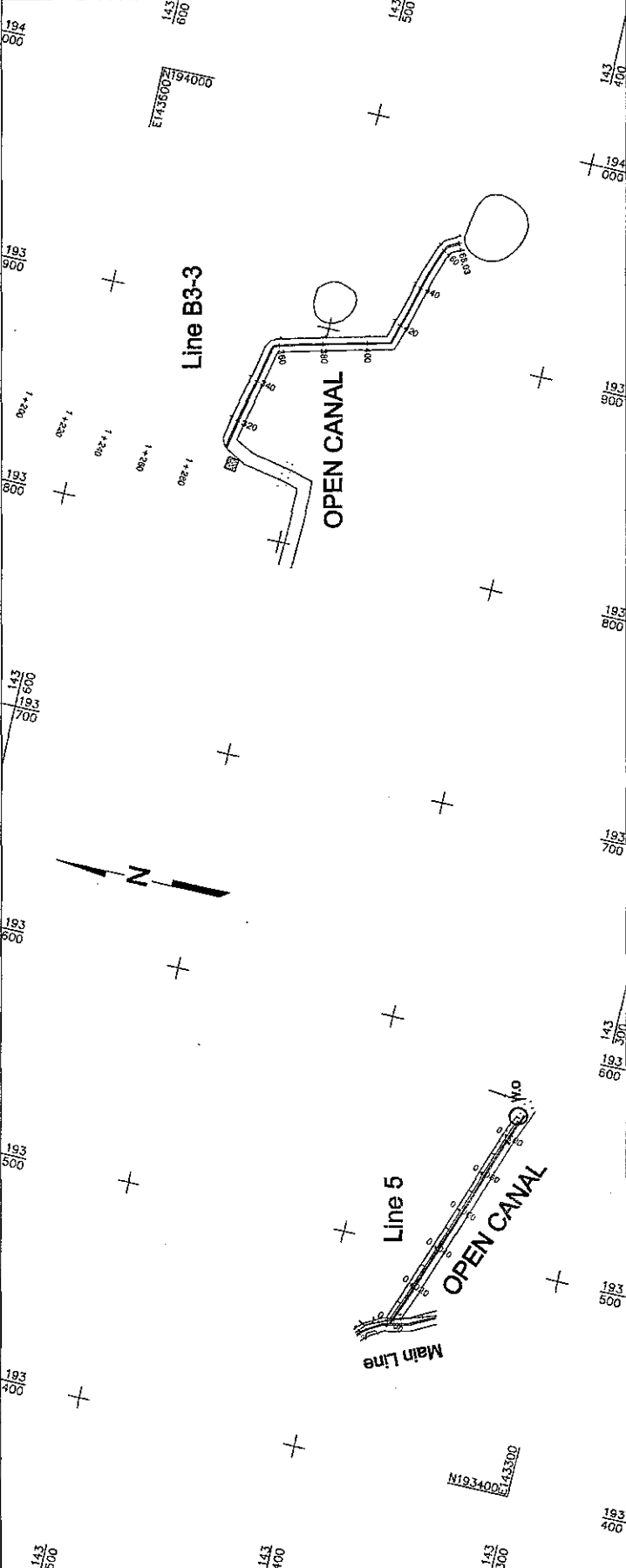
- Canal Centerline
- HDPE pipeline
- Fence
- Paved Roads
- Tracks Roads
- Pedestrian Path
- Wall
- Building
- Plastic House
- Bridge
- Pool
- Bench Mark
- Electric or Telephone Pole
- Water Meter
- Gate Valve
- Check Valve
- Pressure Reducing Valve
- Air Valve
- Washoff

- Profile:**
- Natural Ground Level (NGEL)
  - New Pipeline
  - HDPE
  - High Density Polyethylene Pipe

REVISED	
No.	Date

**NIPPON KOEI CO., LTD.**

IRRIGATION SYSTEM IN THE VILLAGES OF NIJMEH - JORDAN VALLEY  
 Place/Profile: pipeline B3-3 & B5 (Station 0+000 TO 0+400) (DB) STA. 0+000 TO 0+400  
 Scale: 1/1000 (R/W) Date: Aug. 2008 Drawing: CO  
 Drawing No.: B3-3 & B5 (Sheet 1)



**Notes:**  
 - All dimensions are in meters unless otherwise indicated.  
 - Grids refer to the Palestinian "Grid System".  
 - Exact dimensions and levels shall be measured on site, and shall be approved by the supervision engineer.

**Legend:**

**Plan:**

- Canal Centerline
- HDPE pipeline
- Fence
- Paved Roads
- Track Roads
- Pedestrian Path
- Wall
- Building
- Plastic House
- Bridge
- Pool
- Bench Mark
- Electric or Telephone Pole
- Water Meter
- Gate Valve
- Check Valve
- Pressure Reducing Valve
- Air Valve
- Washout

**Profile:**

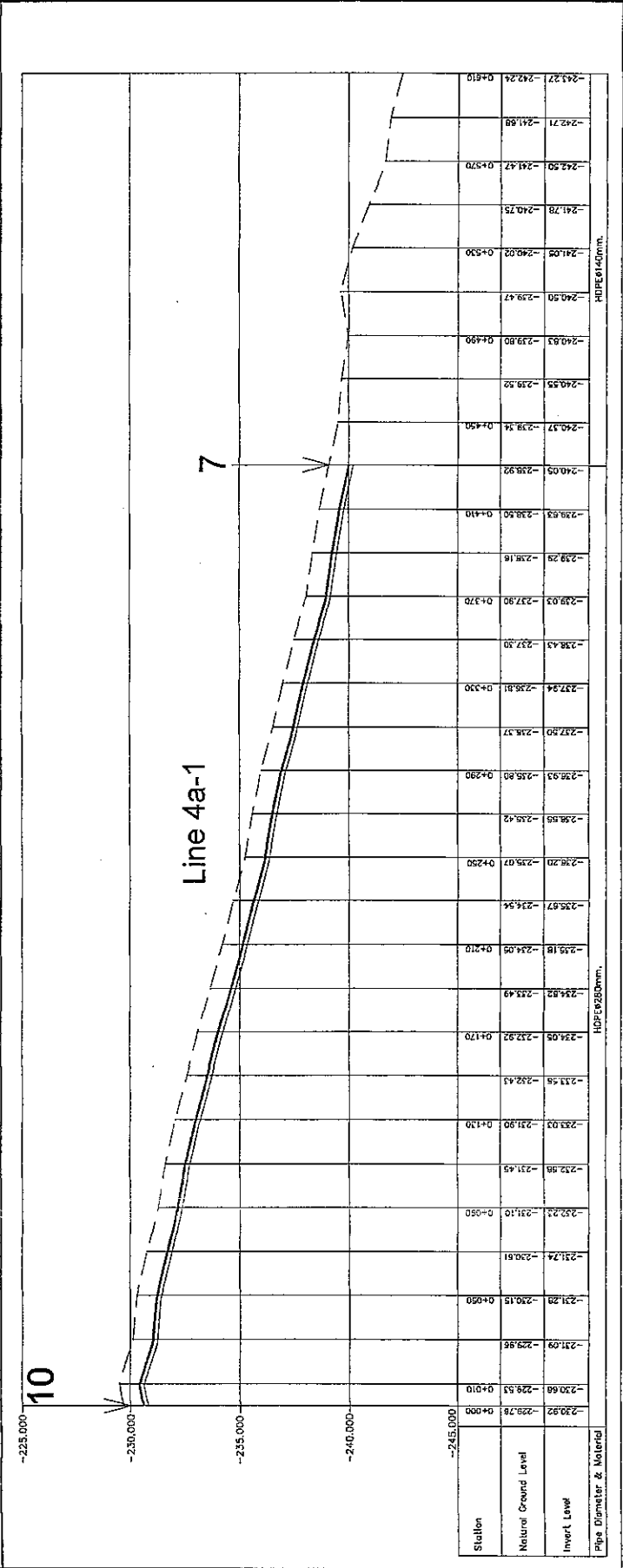
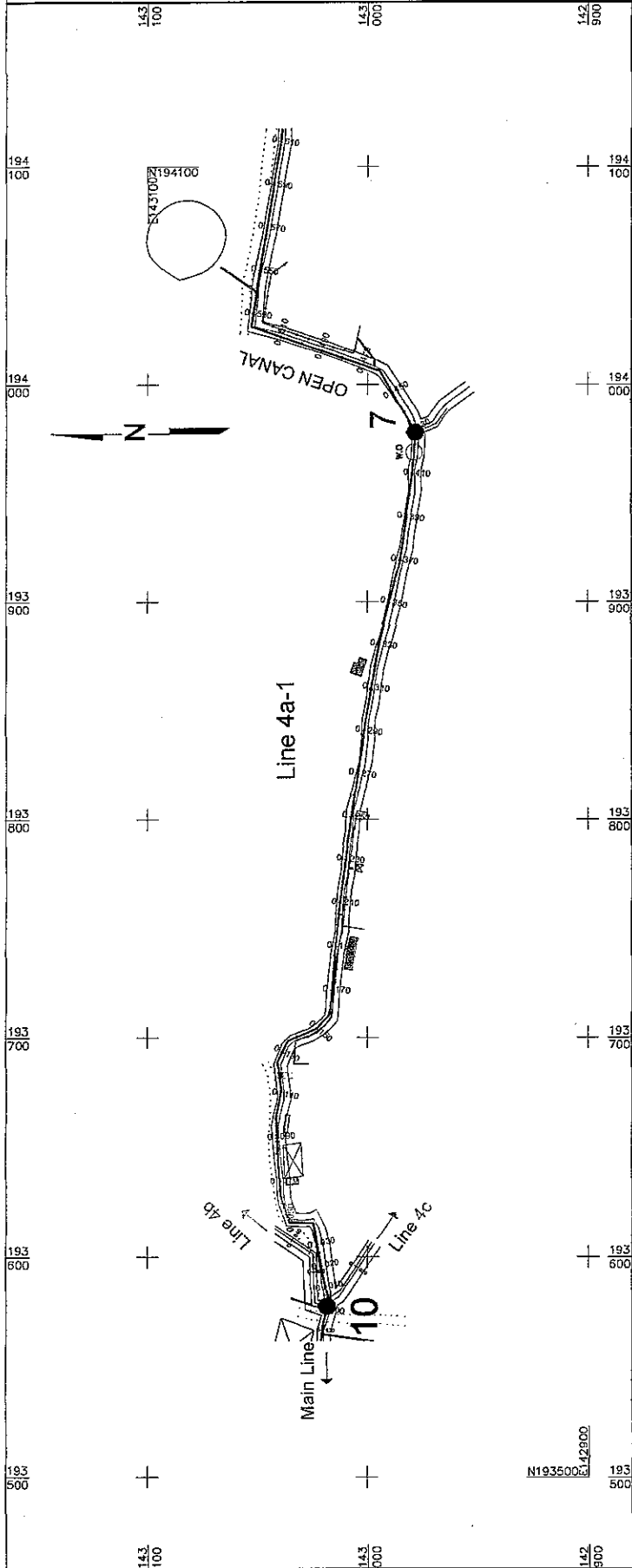
- Natural Ground Level(NGL)
- New Pipeline
- HDPE
- High Density Polyethylene Pipe

**ABBREVIATIONS**

**NIPPON KOEI CO.,LTD.**

**JICA**

IRRIGATION SYSTEM IN THE VALLEY OF JORDAN-JORDAN VALLEY  
 P1a/P2a/P3a-Pipeline B4a-1  
 STA. 0+000 To STA. 0+610  
 Scale: 1/200 H/200  
 Date: Aug. 2008  
 Sheet: 00  
 Drawing: 00  
 Drawing No.: B4a-1  
 Drawing: 00



**Notes:**

- All dimensions are in meters unless otherwise indicated.
- Grids refer to the Palestinian "Grid System".
- Exact dimensions and levels shall be measured on site, and shall be approved by the supervision engineer.

**Legend:**

**Plan:**

- Canal Centerline
- HDPE pipeline
- Fence
- Paved Roads
- Track Roads
- Pedestrian Path
- Wall
- Building
- Plastic House
- Bridge
- Pool
- Bench Mark
- Electric or Telephone Pole
- Water Meter
- Gate Valve
- Check Valve
- Pressure Reducing Valve
- Air Valve
- Whistlant

**Profile:**

- Natural Ground Level (NGL)
- New Pipeline
- HDPE
- High Density Polyethylene Pipe

**Scale:**

1:100	1:200	1:500	1:1000
-------	-------	-------	--------

**DATE:**

NO.	DATE	BY	CHKD

**PROJECT:**

**IRRIGATION SYSTEM IN THE VILLAGE OF HUNDEIR-JORDAN VALLEY**

**Plan/Profile Pipeline 4a-2**

**STA. 0+810 To STA. 1+807.73**

**Scale: 1:1/200 (H/200)**

**Date: Aug. 2000**

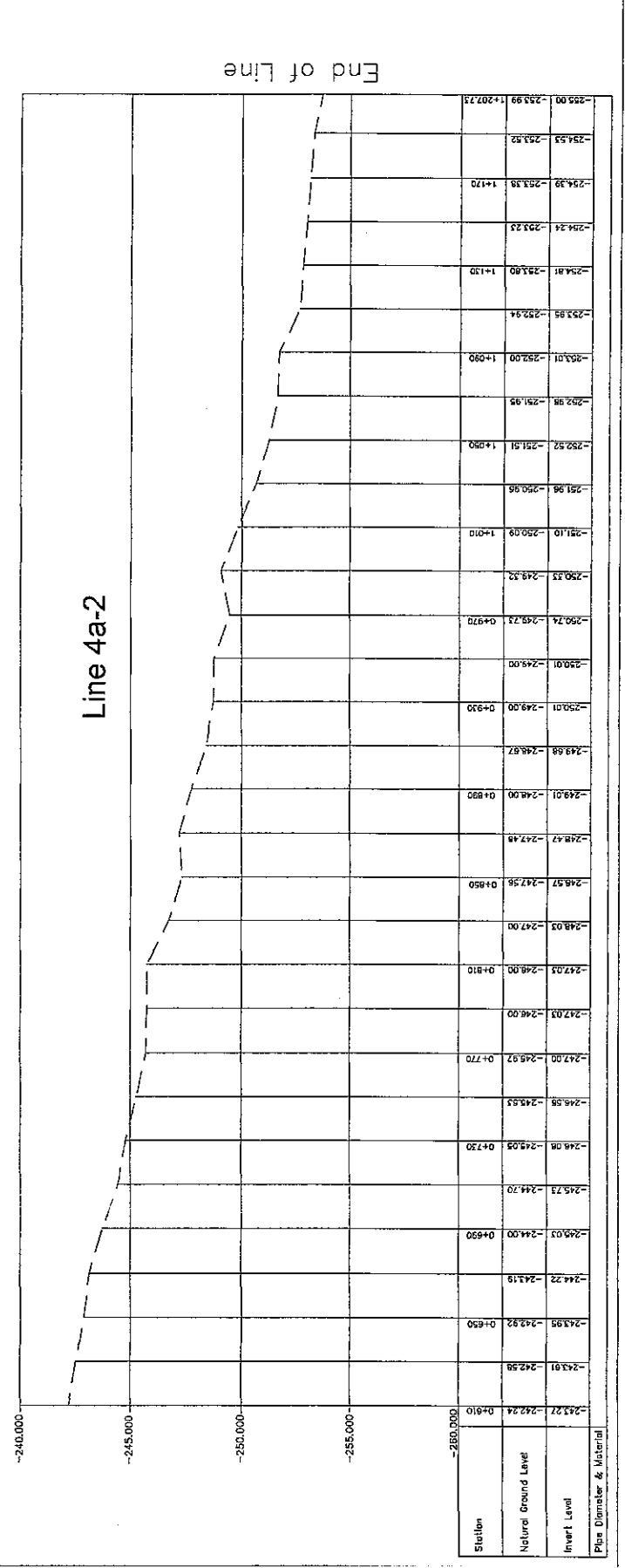
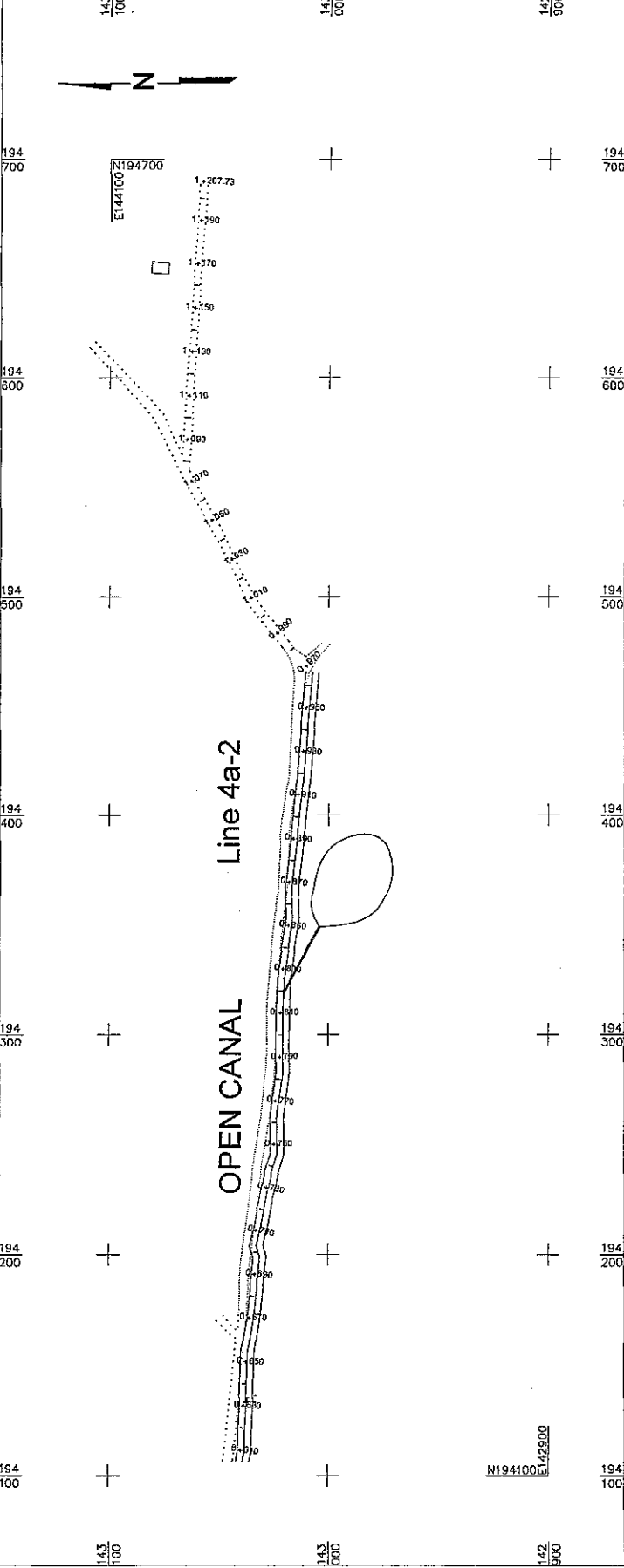
**Drawn: JGD**

**Checked: JGD**

**Projecting: JGD**

**NIPPON KOEI CO., LTD.**

**jica**



**Notes:**  
 - All dimensions are in meters unless otherwise indicated.  
 - Grids refer to the Palestinian "Grid System".  
 - Exact dimensions and levels shall be measured on site, and shall be approved by the supervision engineer.

**Legend:**  
 Canal Centerline  
 HDPE Pipeline  
 Fence  
 Paved Roads  
 Trunk Roads  
 Pedestrian Path  
 Wall  
 Building  
 Plastic House  
 Bridge  
 Pool  
 Bench Mark  
 Electric or Telephone Pole  
 Water Meter  
 Gate Valve  
 Check Valve  
 Pressure Reducing Valve  
 Air Valve  
 Washout

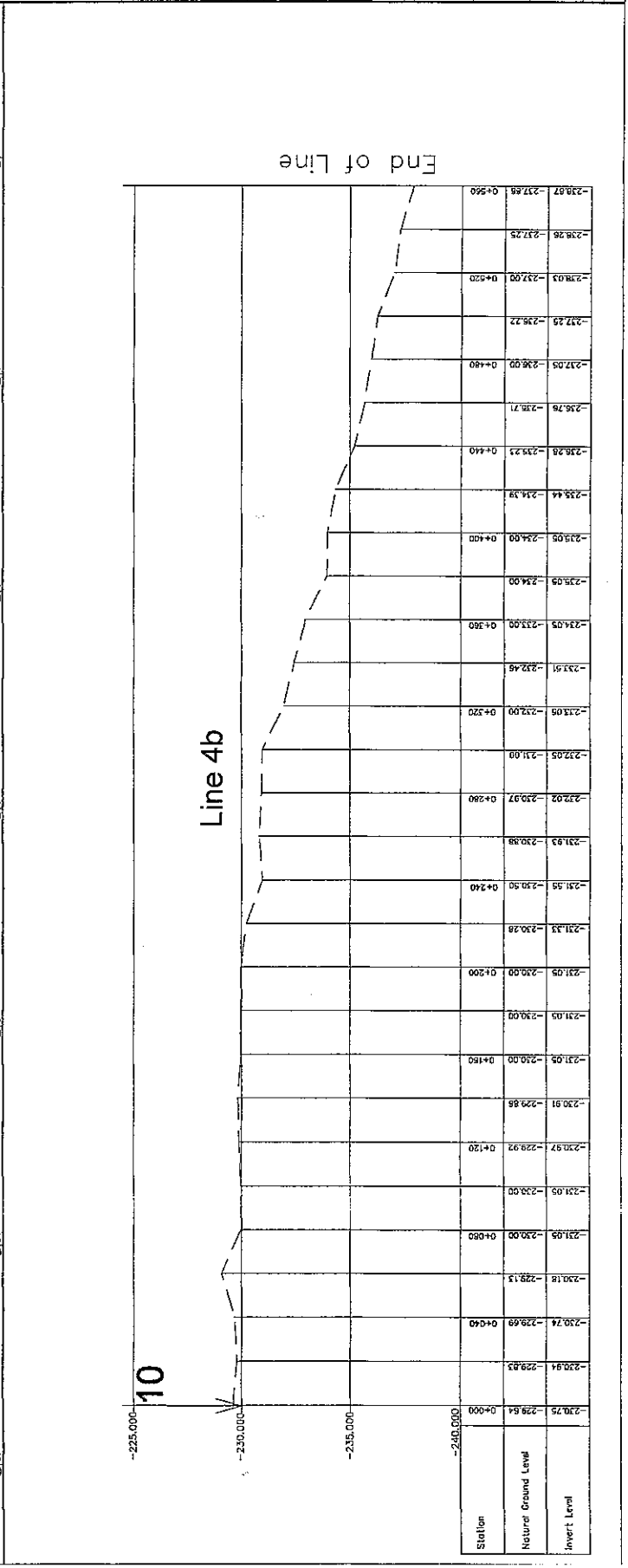
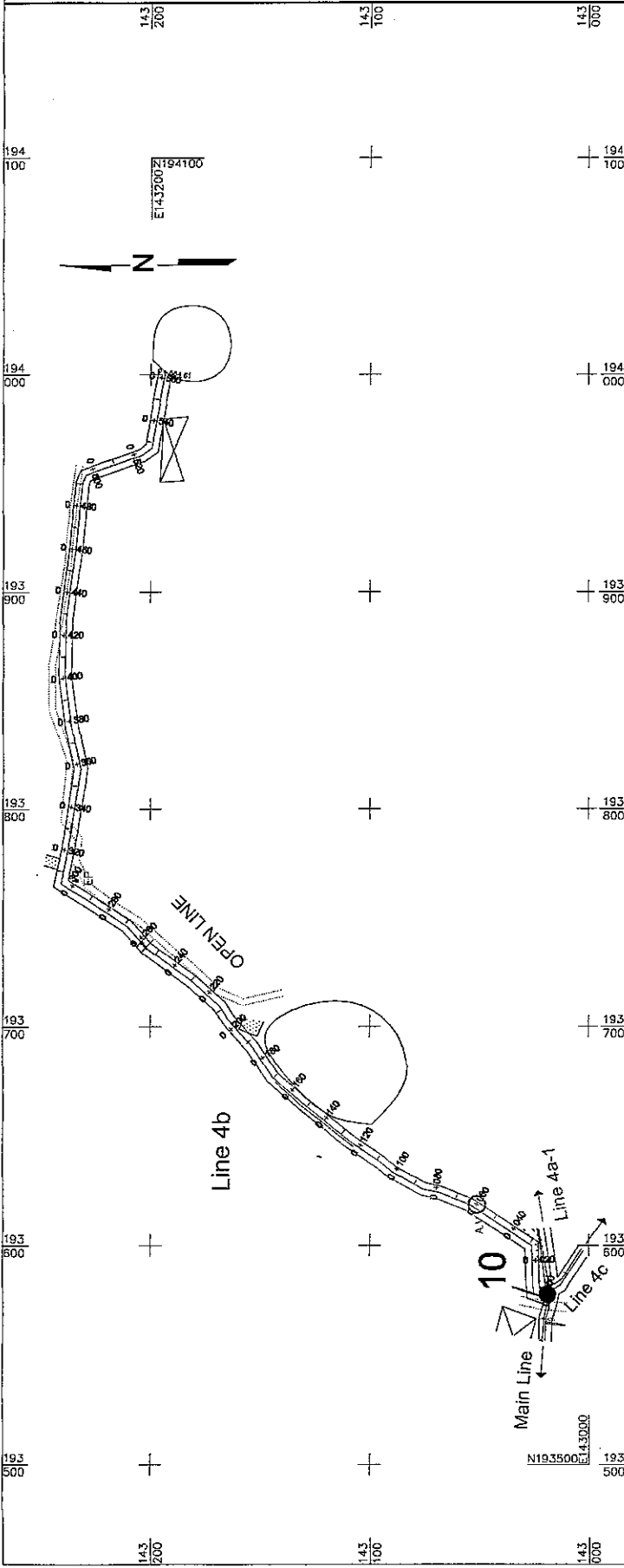
**Profile:**  
 Natural Ground Level (NGL)  
 New Pipeline  
 HDPE  
 High Density Polyethylene Pipe

**SECTIONS**

NO.	DATE	REVISIONS

**NIPPON KOEI CO., LTD.**  
**JICA**

IRRIGATION SYSTEM IN THE VILLAGE OF NUMER-AL-JORDAN VALLEY  
 Plan/Profile Pipeline R4b  
 STA. 0+000 To STA. 0+600  
 Scale: H=1/2000 V=1/200  
 Date: Aug. 2003  
 Drawing: 00  
 Drawing No.: R4b  
 Project:



**Notes:**

- All dimensions are in meters unless otherwise indicated.
- Grids refer to the Palestinian "Grid System".
- Exact dimensions and levels shall be measured on site, and shall be approved by the supervision engineer.

**Legend:**

**Plan:**

- Canal Centerline
- HDPE pipeline
- Fence
- Traced Roads
- Track Roads
- Pedestrian Path
- Wall
- Building
- Plastic House
- Bridge
- Pool
- Bench Mark
- Electric or Telephone Pole
- Water Meter
- Gate Valve
- Check Valve
- Pressure Reducing Valve
- Air Valve
- Washout

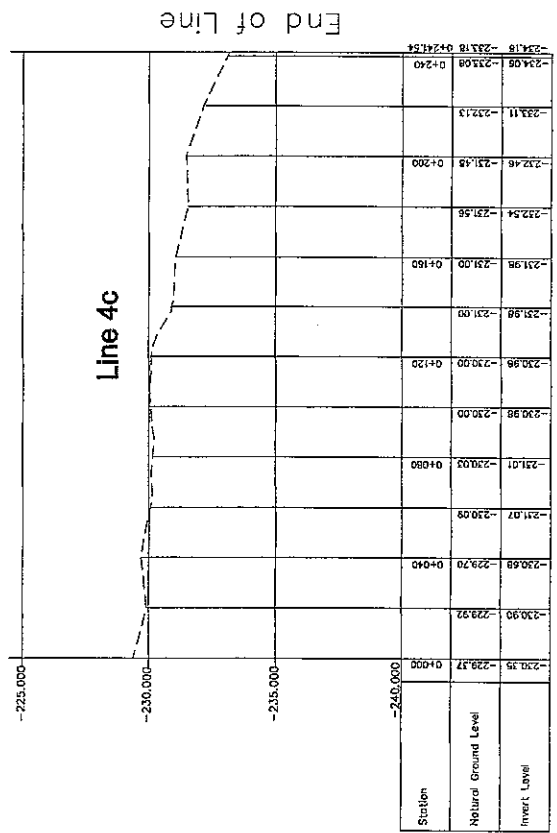
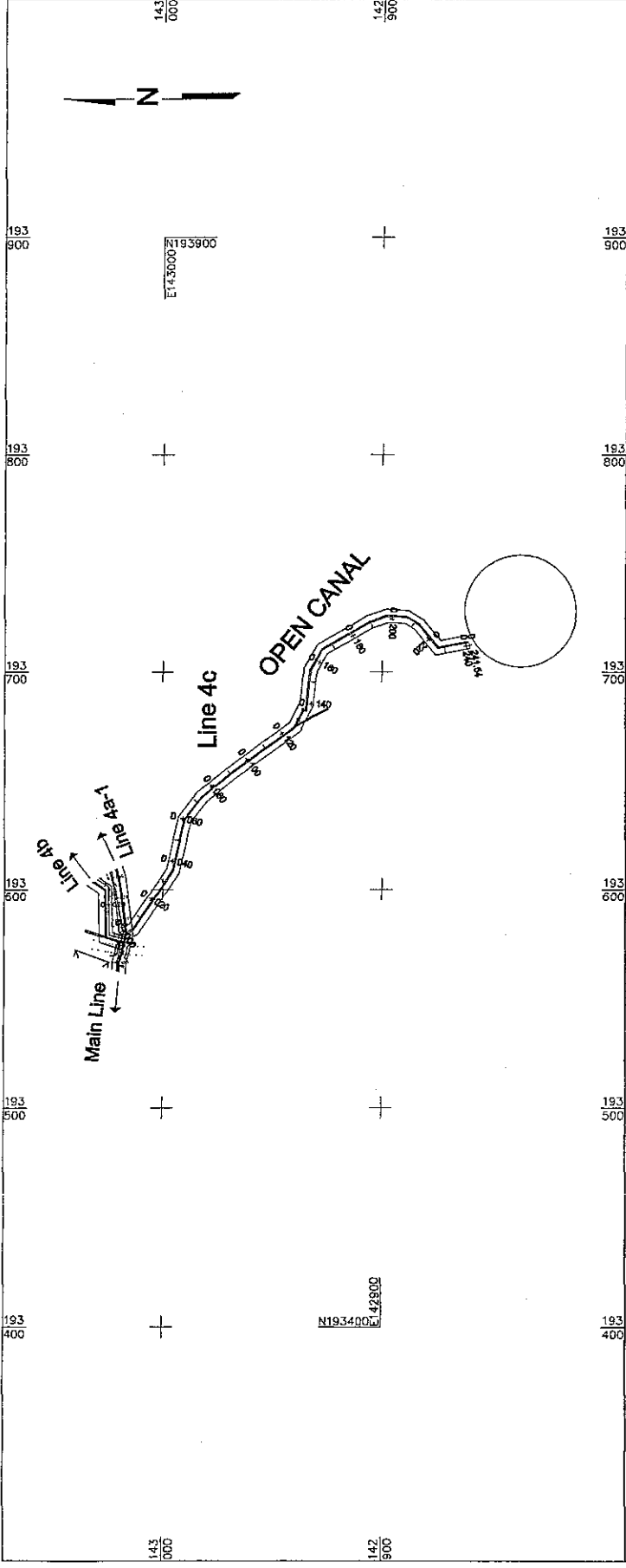
**Profile:**

- Natural Ground Level(NGL)
- New Pipeline
- HDPE
- High Density Polyethylene Pipe

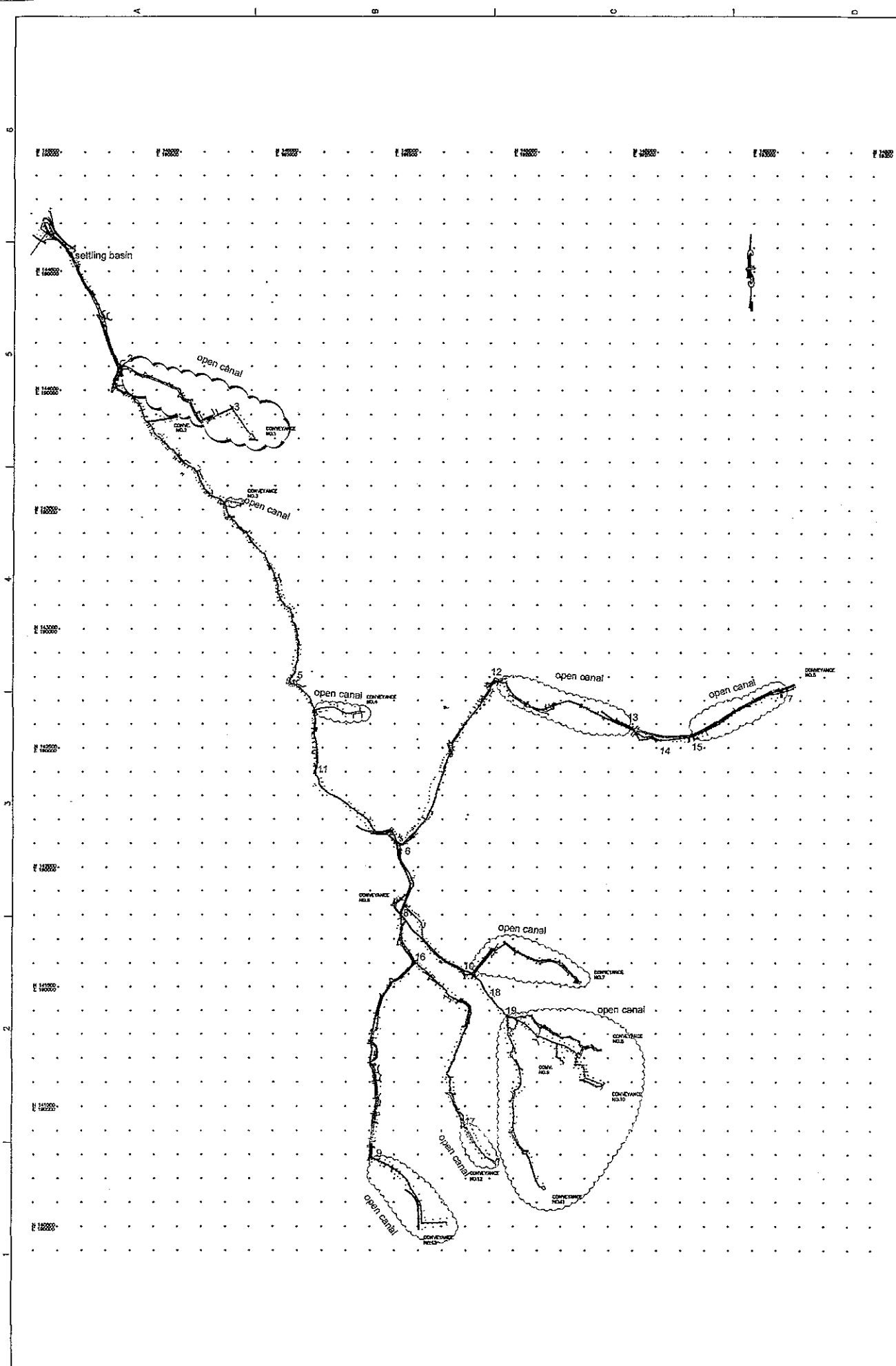
REVISIONS	
No.	DATE

**NIPPON KOEI CO., LTD.**  


IRRIGATION SYSTEM IN THE VILLAGES OF NURESHER-JORDAN VALLEY  
 Plan/Profile- Pipeline B4-c  
 STA. 0+000 To STA.0+944.64  
 Scale: 1/1000 (H/2000 V) Date: Aug. 2008  
 Drawing No.: B4-c  
 Sheet No.: 01



*Plan and Profile of Al Dyuk Spring Water Conveyance System*



SHEET 03 OF 08  
 DWG 0-02  
 DATE AUGUST, 2008  
 SCALE: 1:1000 VTI:00

GENERAL  
 KEY MAP



NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY

\*DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN

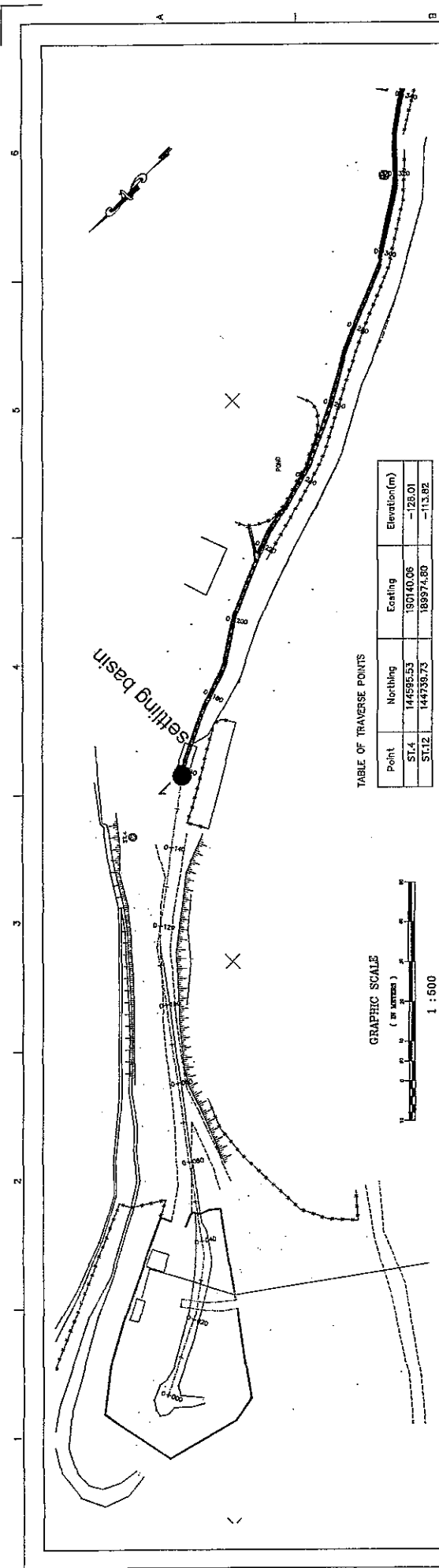
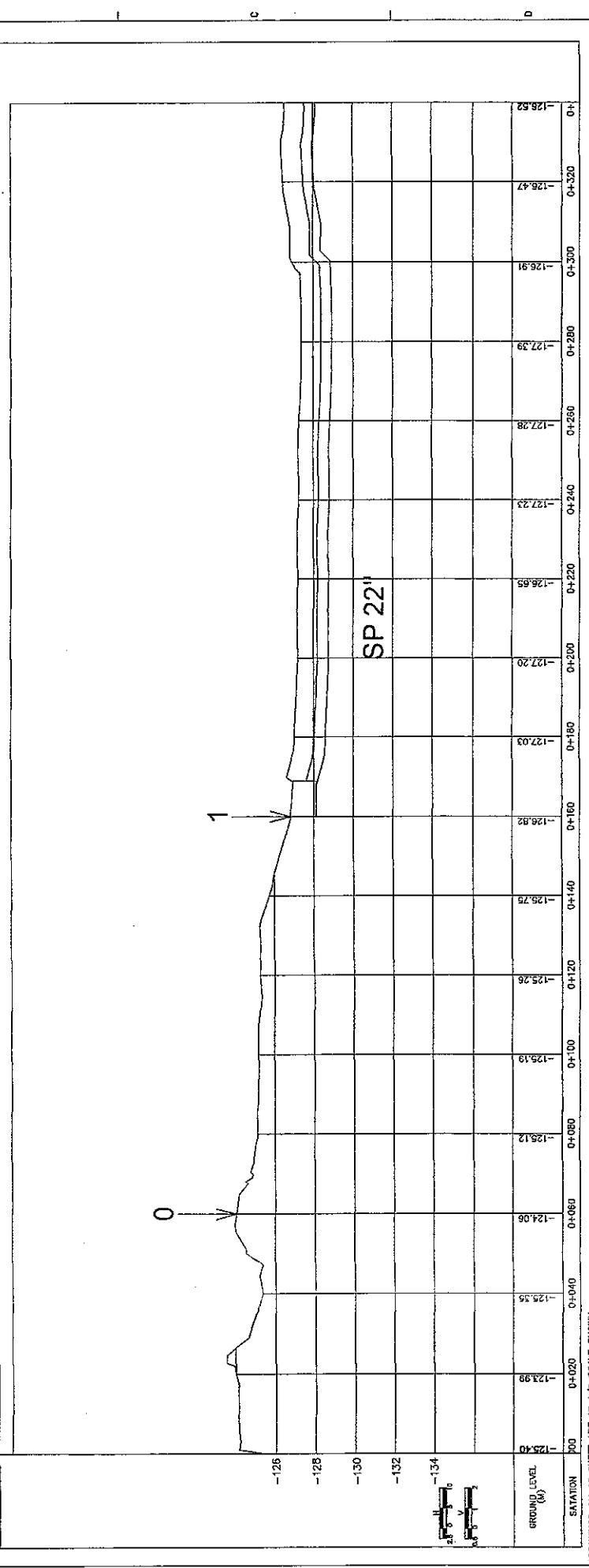


TABLE OF TRAVERSE POINTS

Point	Northing	Easting	Elevation(m)
ST.4	144595.53	190140.06	-125.01
ST.12	144739.73	189974.80	-113.82

GRAPHIC SCALE  
(in meters)



\*DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN

**THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY**

**NIPPON KOEI CO., LTD.**

CONVEYANCE LINE NO.1  
 PLAN & PROFILE  
 FROM STA 0+000 TO 0+340

SHEET	04 OF 08	DATE	AUGUST, 2008	SCALE	H1/500 V1/100
DWG	D-01				



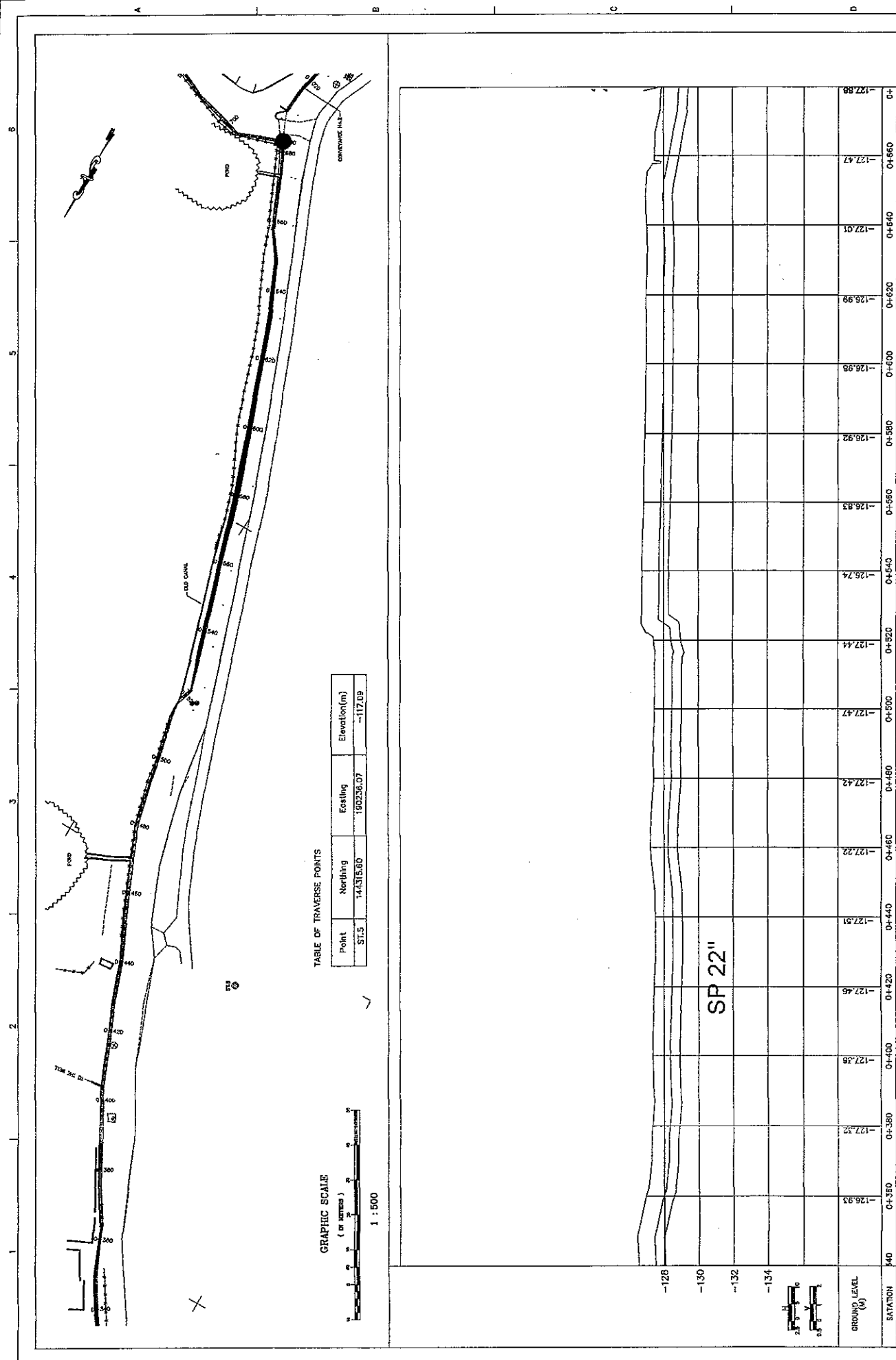
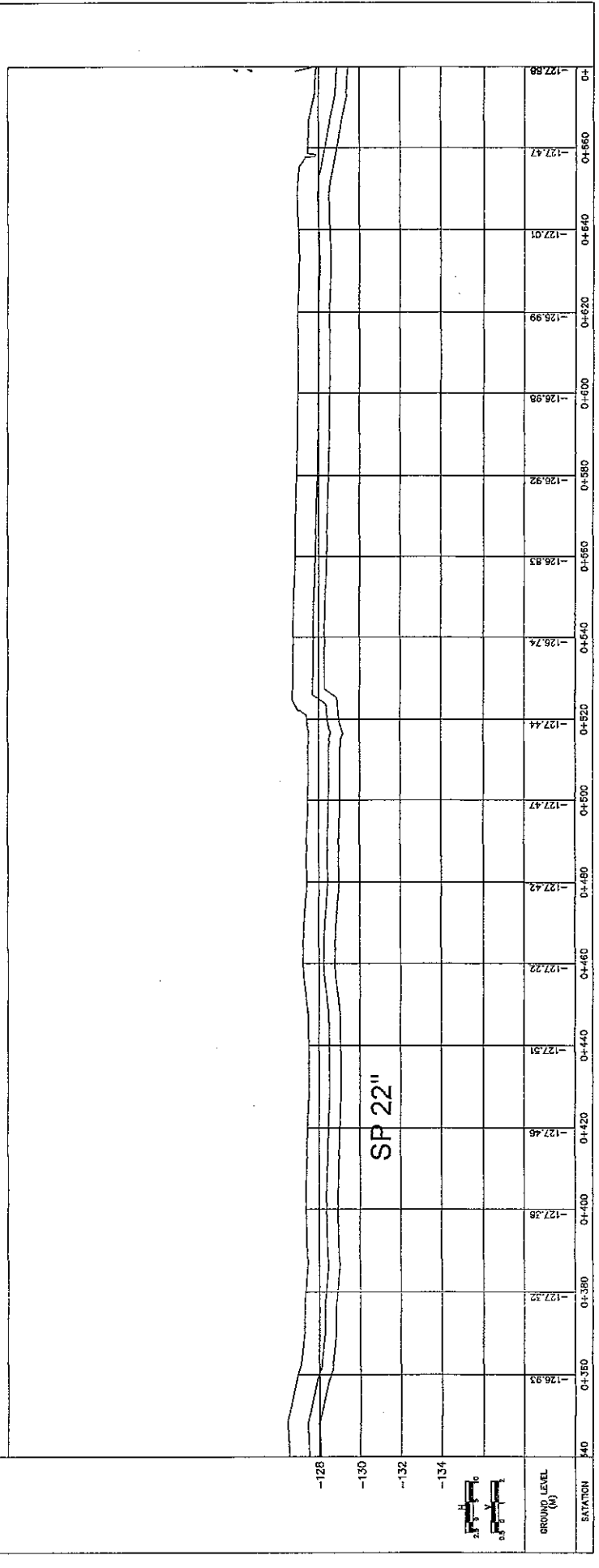
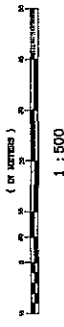


TABLE OF TRAVERSE POINTS

Point	Northing	Easting	Elevation(m)
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GRAPHIC SCALE  
(in meters)



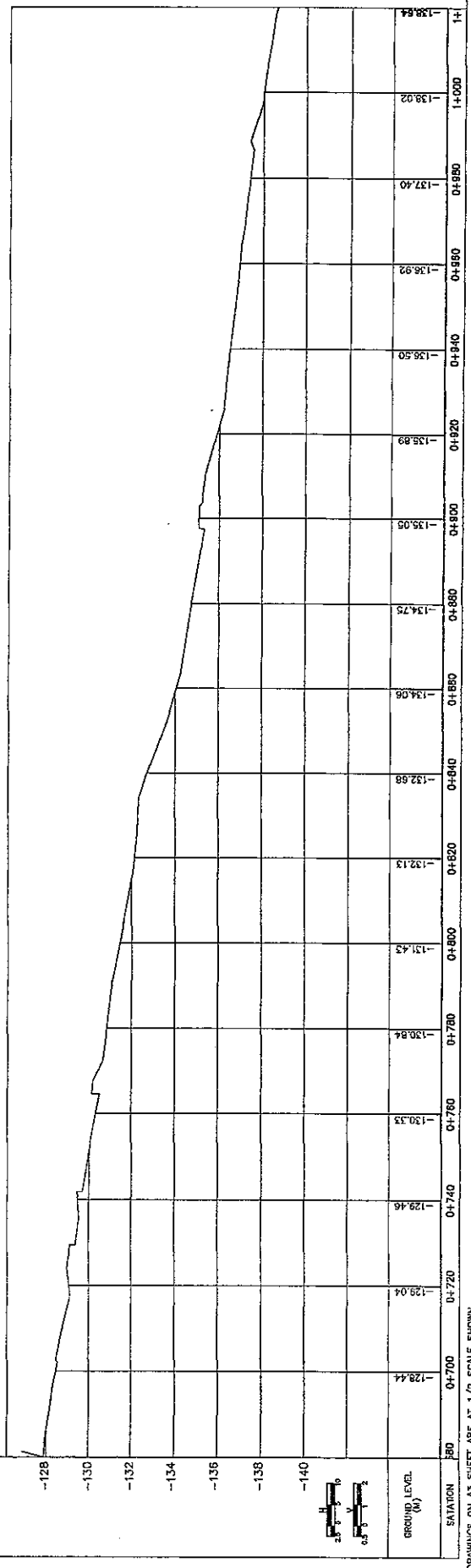
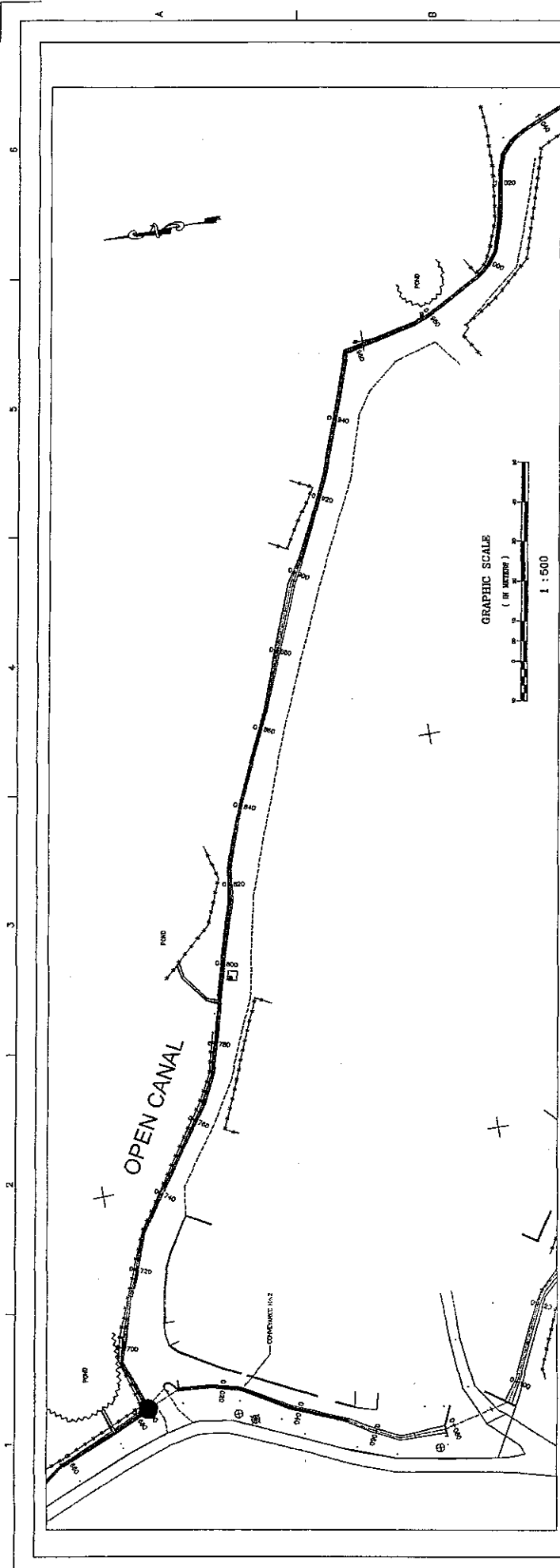
SHEET 05 OF 81  
DWG. D-02  
DATE AUGUST 2008  
SCALE: H:500 V:100

**NIPPON KOEICO, LTD.**

CONVEYANCE LINE NO.1  
PLAN & PROFILE  
FROM STA 0+340 TO 0+660

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY

DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN

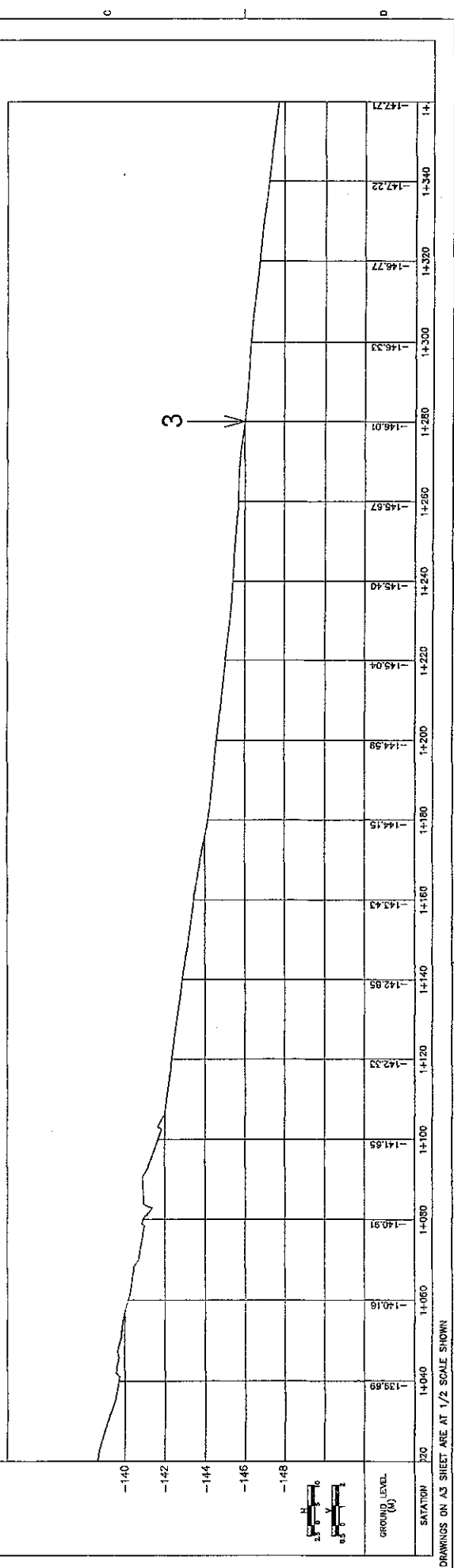
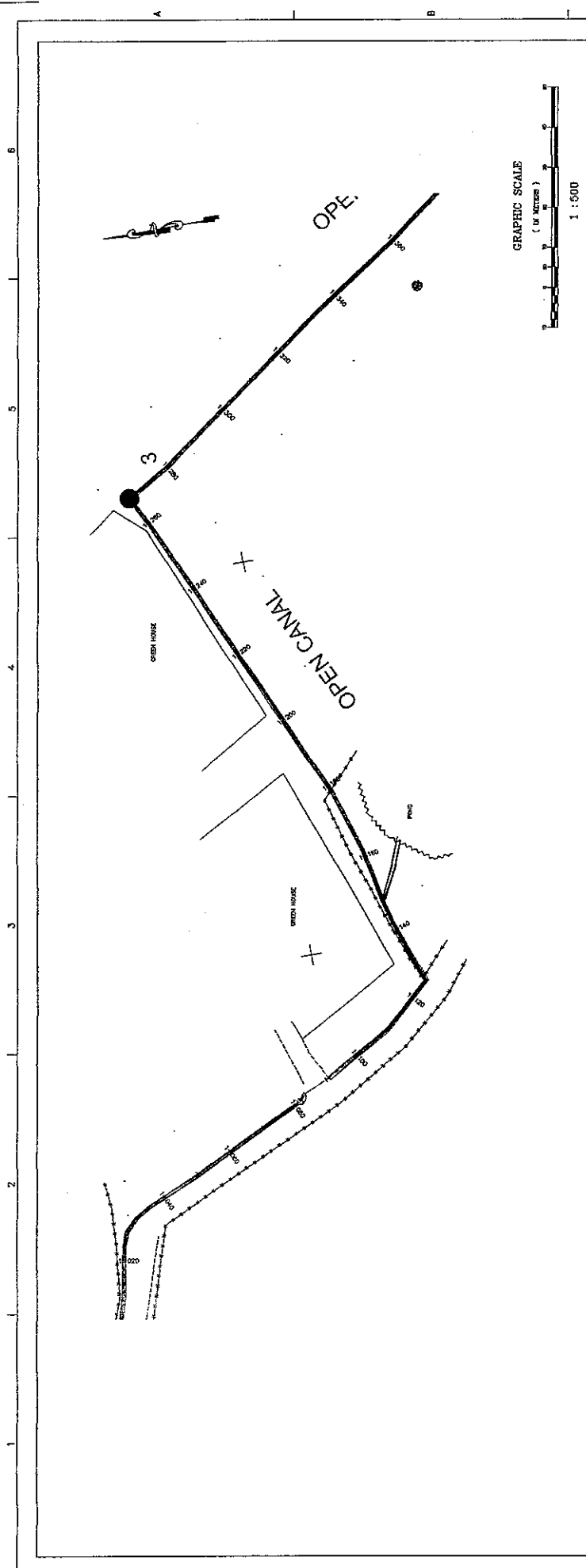


**THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY**

**NIPPON KOEI CO., LTD.**

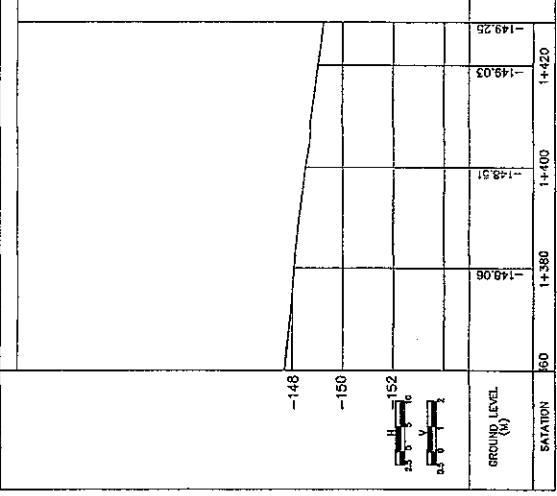
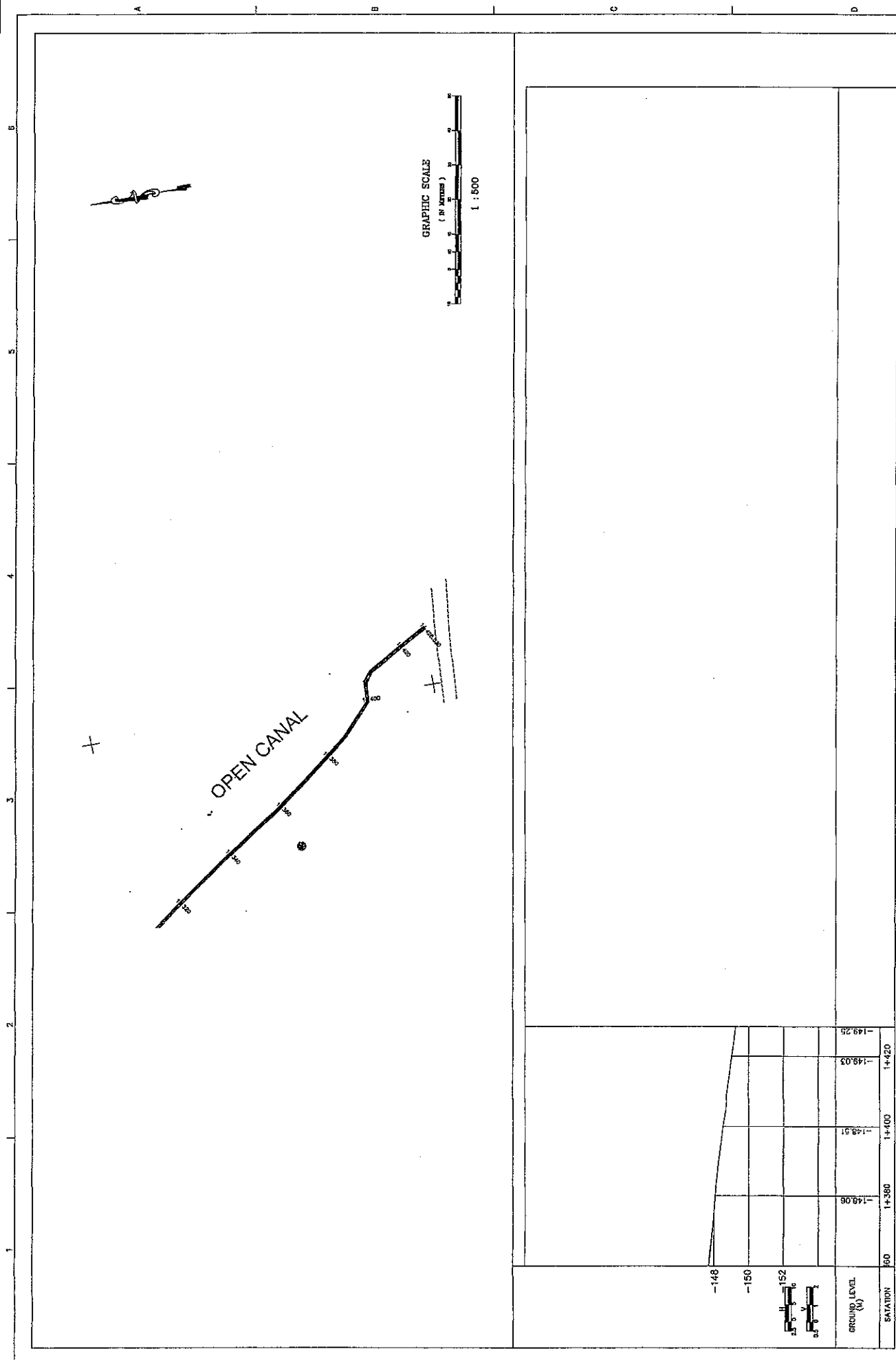
**CONVEYANCE LINE NO.1  
 PLAN & PROFILE  
 FROM STA 0+680 TO 1+020**

SHEET 06 OF 69  
 DWG 0-03  
 DATE AUGUST, 2008  
 SCALE: H1500 V1100



DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN

<p>THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT IN THE JORDAN RIVER RIFT VALLEY</p>	<p><b>NIPPON KOEI CO., LTD.</b></p>		<p>CONVEYANCE LINE NO.1 PLAN &amp; PROFILE FROM STA 1+020 TO 1+360</p>
<p>SHEET 07 OF 08 DWG D-04 DATE AUGUST, 2008 SCALE H:500 V:1:50</p>			



DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN

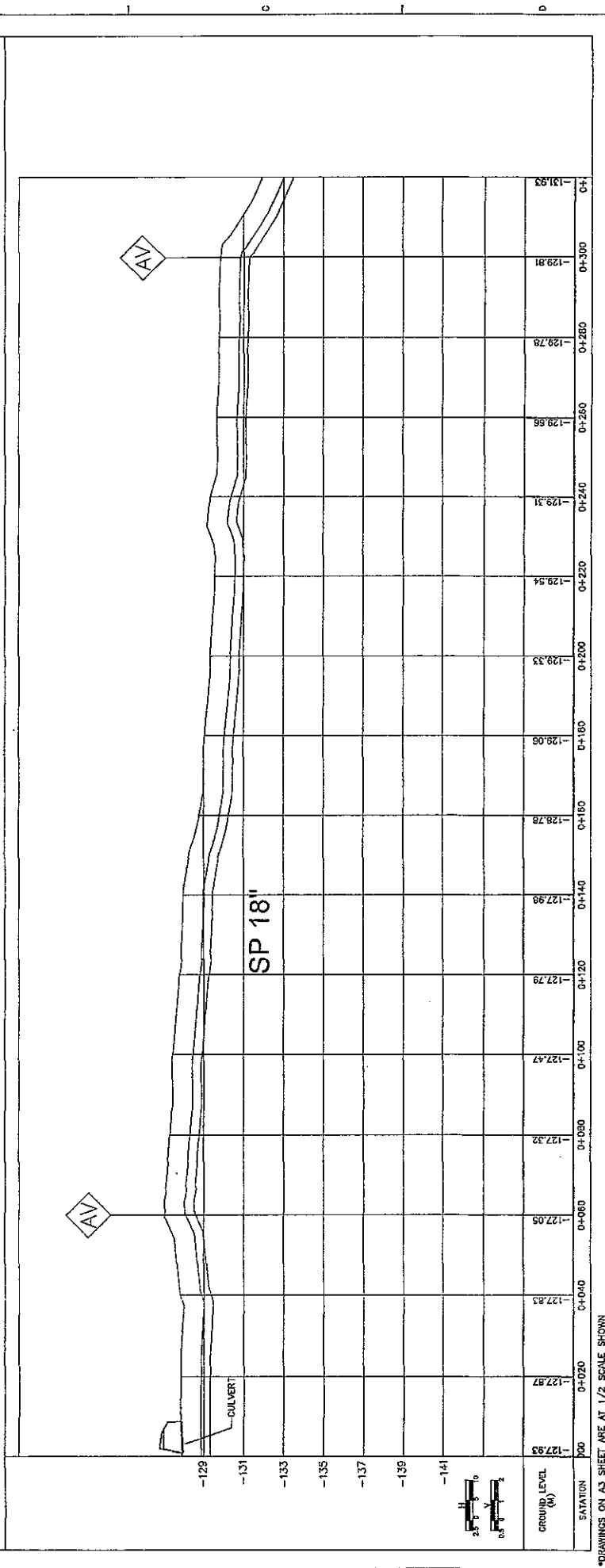
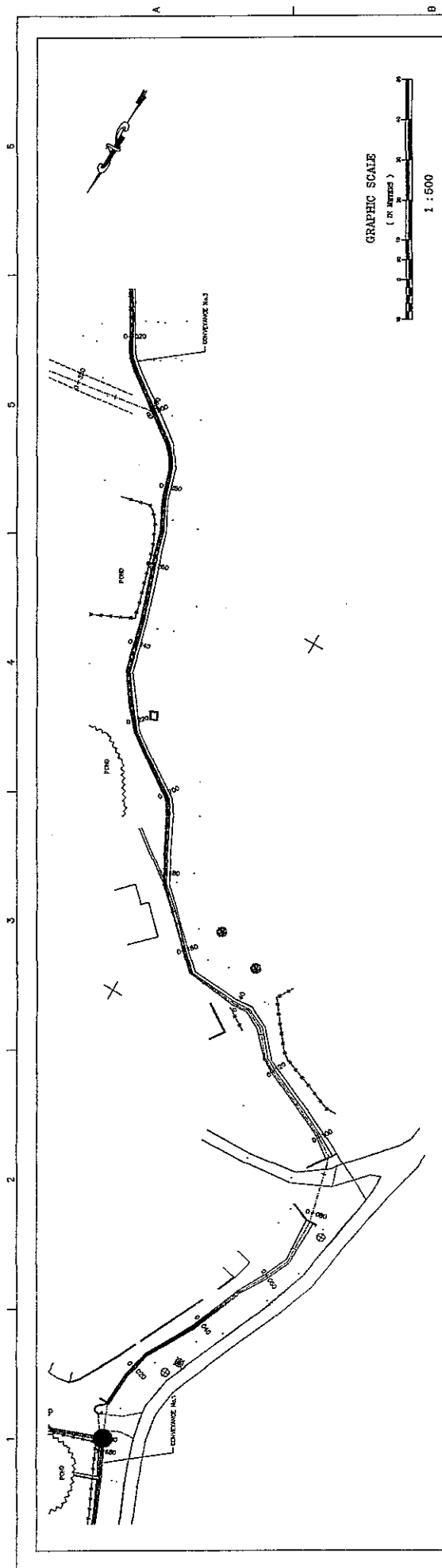
**THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY**

**NIPPON KOEI CO., LTD.**

**JICA**

CONVEYANCE LINE NO.1  
PLAN & PROFILE  
FROM STA 1+360 TO 1+428.35 (END)

SHEET 08 OF 88  
DWG D-05  
DATE AUGUST, 2008  
SCALE H1:500 V1:100



STATION	0+00	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320
GROUND LEVEL (M)	-127.93	-127.97	-127.83	-127.05	-127.32	-127.47	-127.79	-127.98	-128.78	-129.05	-129.33	-129.54	-129.31	-129.66	-129.78	-129.91	-131.53

SHEET 09 OF 68  
 DWG 0-00  
 DATE AUGUST, 2008  
 SCALE: H:500 V:100

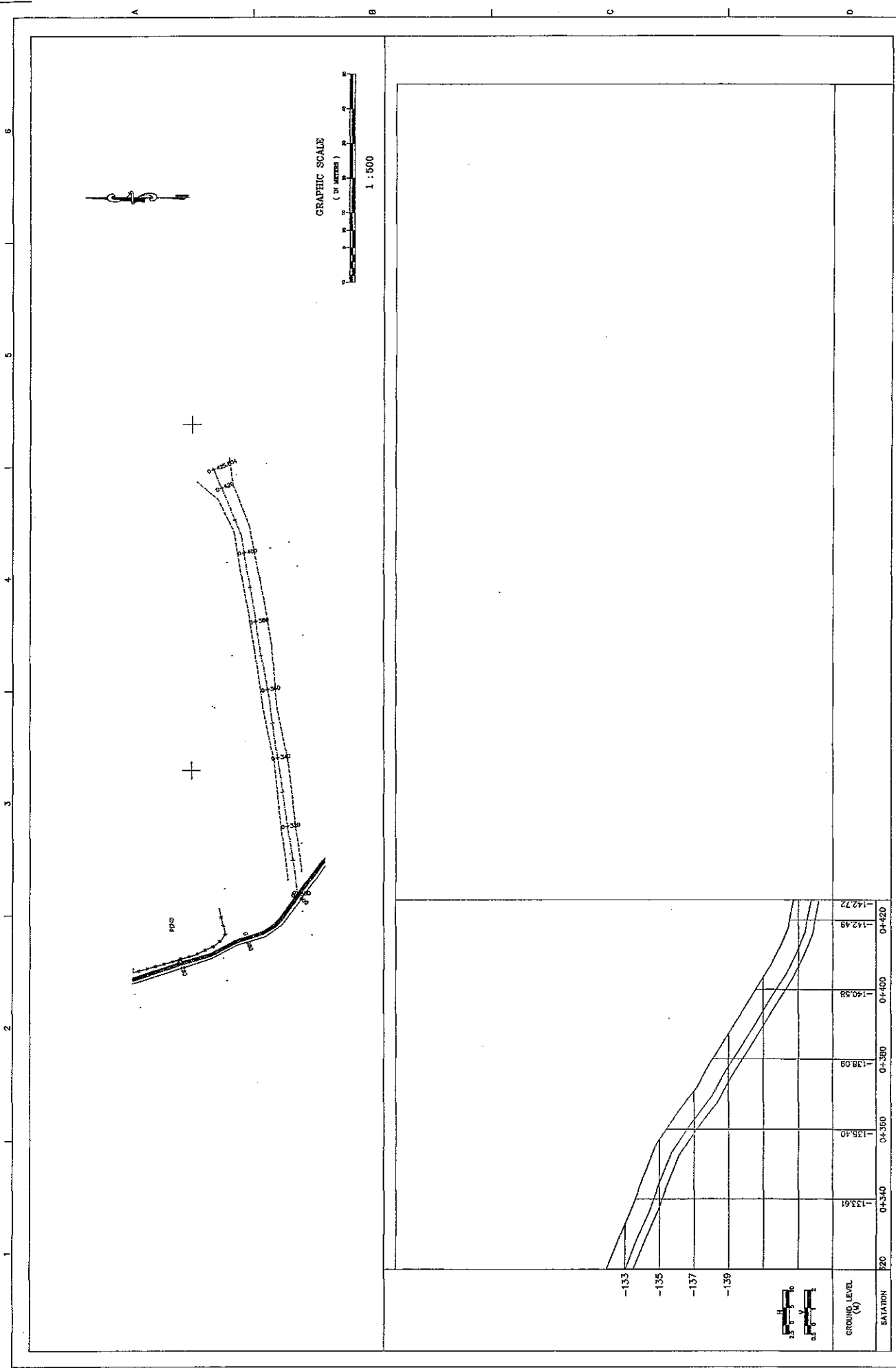
CONVEYANCE LINE NO.2  
 PLAN & PROFILE  
 FROM STA 0+000 TO 0+320



**NIPPON KOEI CO., LTD.**

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY

\*DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN



SHEET 10 OF 68  
DWG D-07  
DATE AUGUST, 2009  
SCALE: H1:900 V1:100

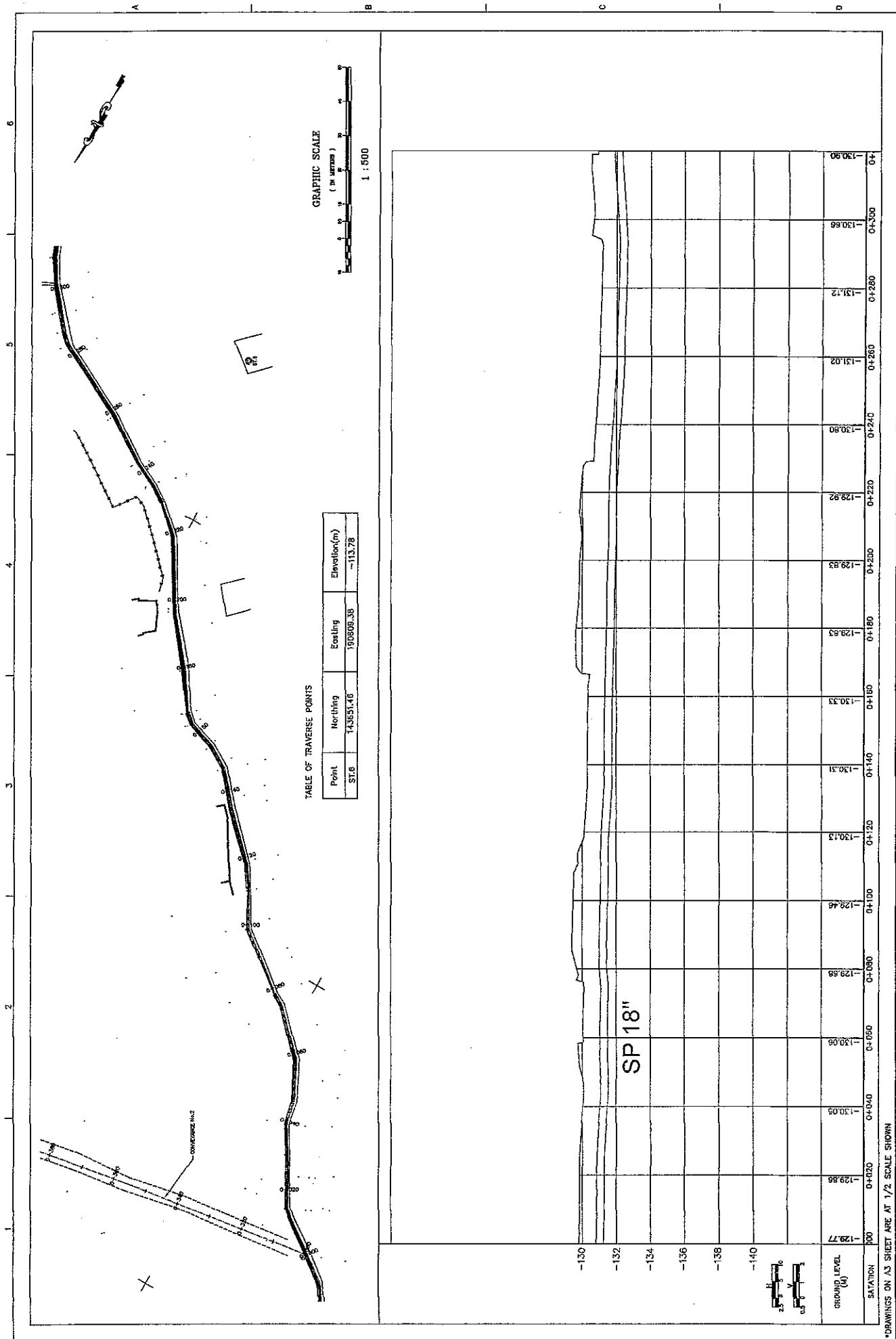
CONVEYANCE LINE NO.2  
PLAN & PROFILE  
FROM STA 0+320 TO 0+425.60 (END)



NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY

\*DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN.

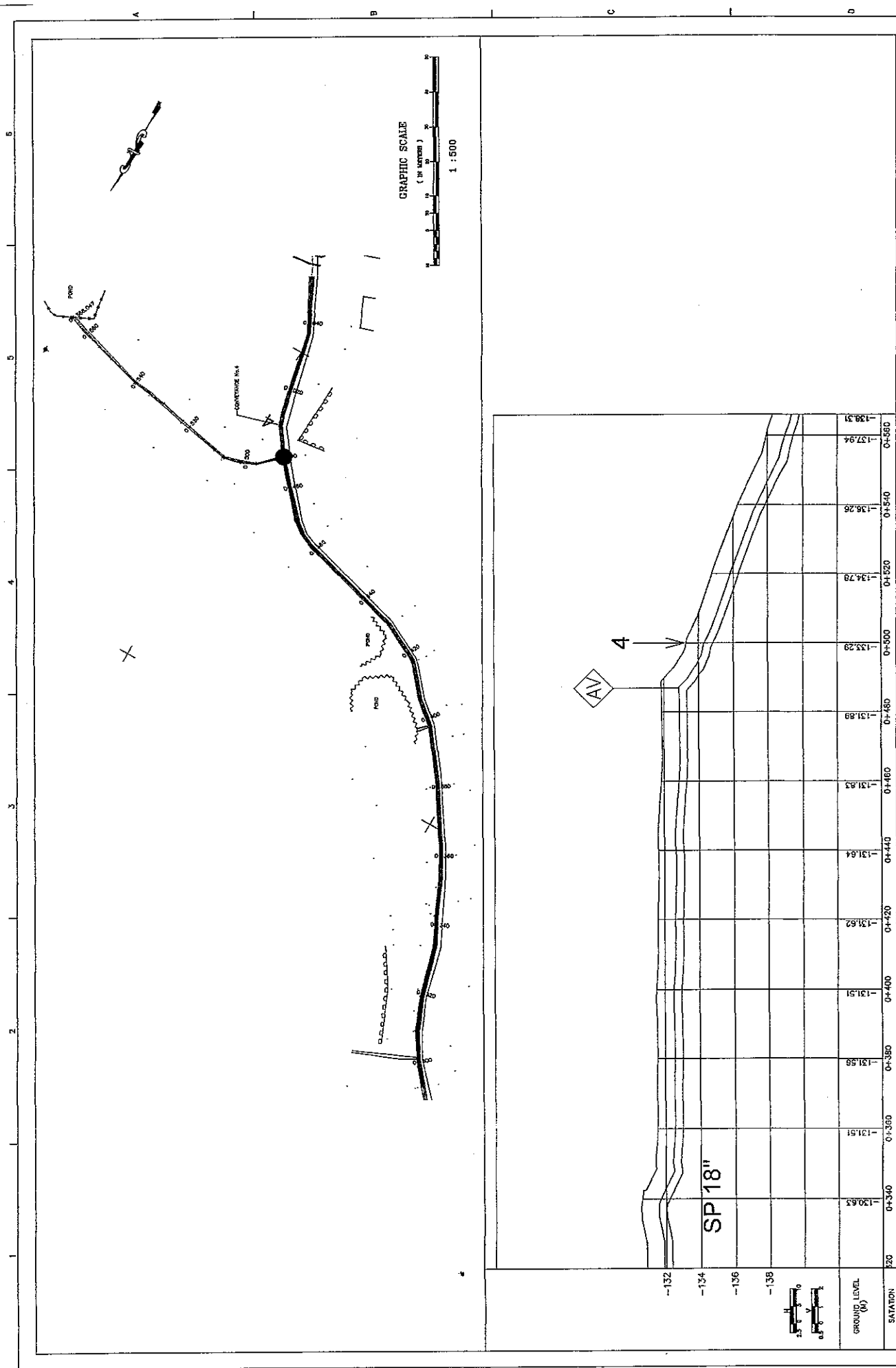


SHEET 11 OF 88  
DWG D-06  
DATE AUGUST, 2005  
SCALE: H:1:500 V:1:100

**NIPPON KOEICO, LTD.**

**THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY**

**CONVEYANCE LINE NO.3  
PLAN & PROFILE  
FROM STA 0+000 TO 0+300**



GRAPHIC SCALE  
( IN METERS )  
1 : 500

SHEET 12 OF 68  
DWS D-06  
DATE AUGUST, 2008  
SCALE 1:500 (HORIZONTAL)

CONVEYANCE LINE NO.3  
PLAN & PROFILE  
FROM STA 0+300 TO 0+566.05 (END)



NIPPON KOEI CO., LTD.

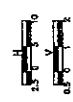
THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY



4

SP18"

-132  
-134  
-136  
-138

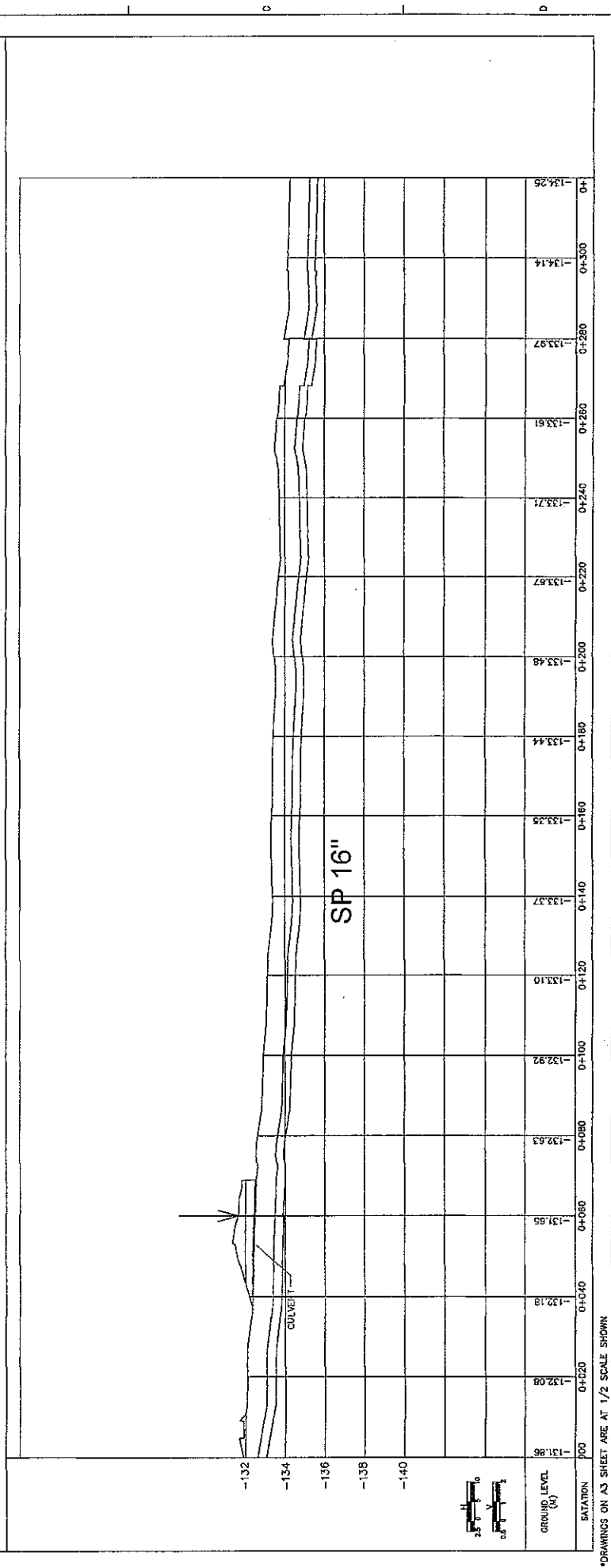
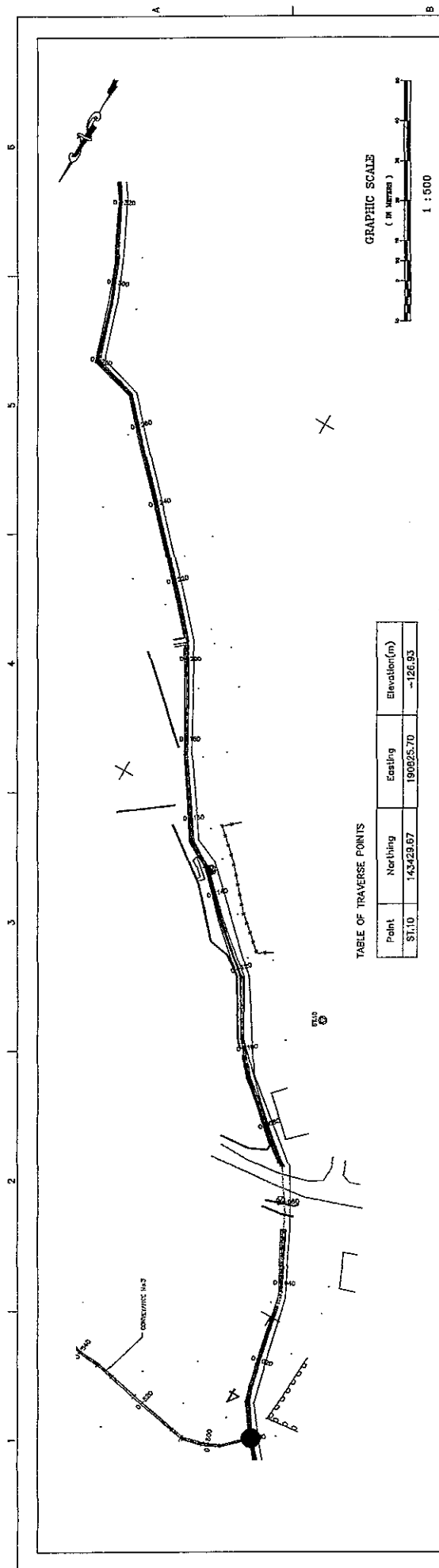


GROUND LEVEL (M)

SATATION	0+320	0+340	0+360	0+380	0+400	0+420	0+440	0+460	0+480	0+500	0+520	0+540	0+560
GROUND LEVEL (M)	-130.63	-131.51	-131.68	-131.91	-131.64	-131.62	-131.84	-131.83	-131.89	-133.29	-134.79	-136.26	-137.94
													-138.31

\*DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN





SHEET 13 OF 88  
DWG 0-10  
DATE AUGUST, 2008  
SCALE 1:500 VERTICAL

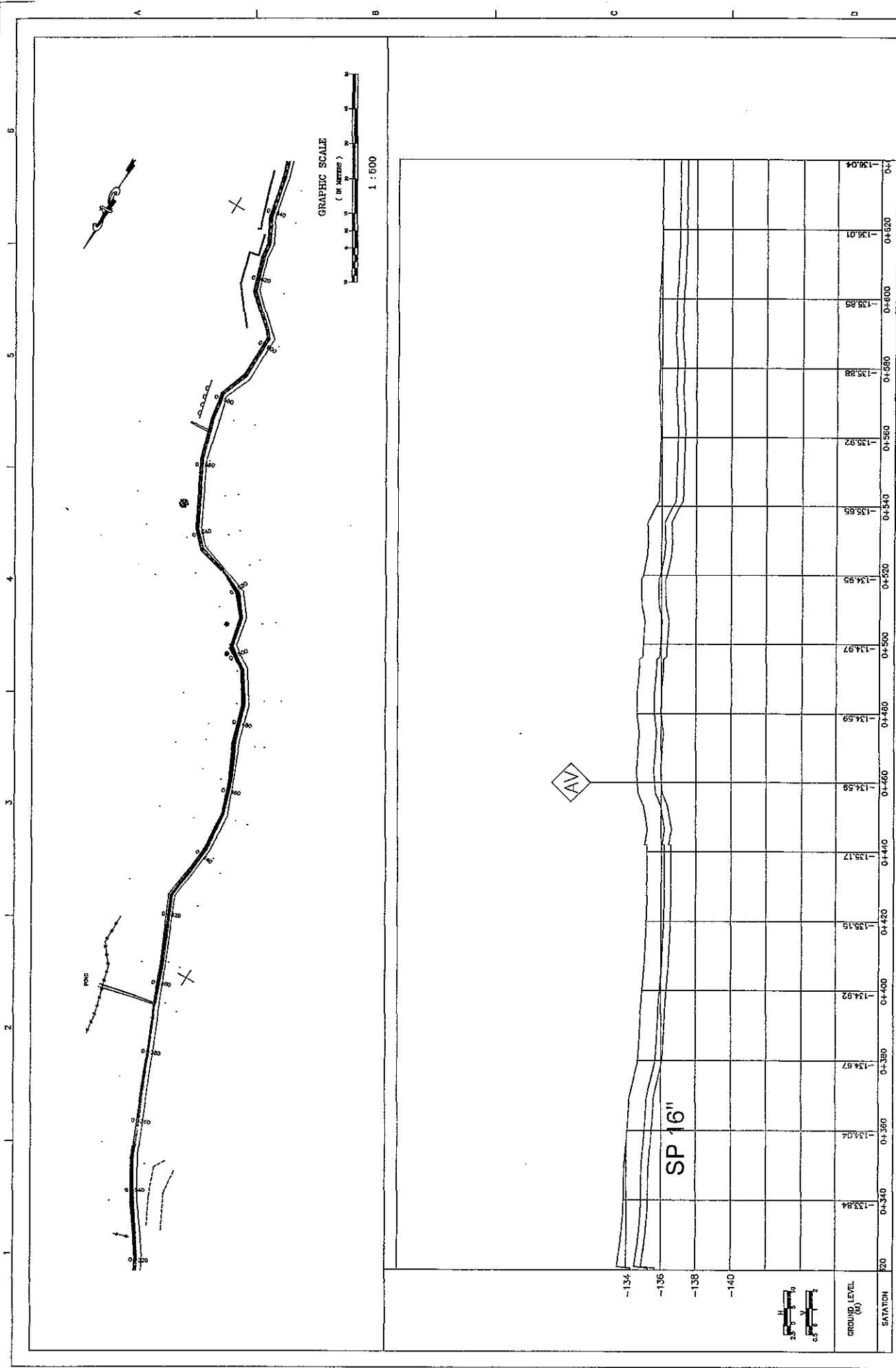
**NIPPON KOEICO., LTD.**

**JICA**

CONVEYANCE LINE NO.4  
PLAN & PROFILE  
FROM STA 0+000 TO 0+320

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY

DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN



SHEET 14 OF 69  
 DWG D-11  
 DATE AUGUST, 2009  
 SCALE: H1850 V1100

CONVEYANCE LINE NO.4  
 PLAN & PROFILE  
 FROM STA 0+320 TO 0+640

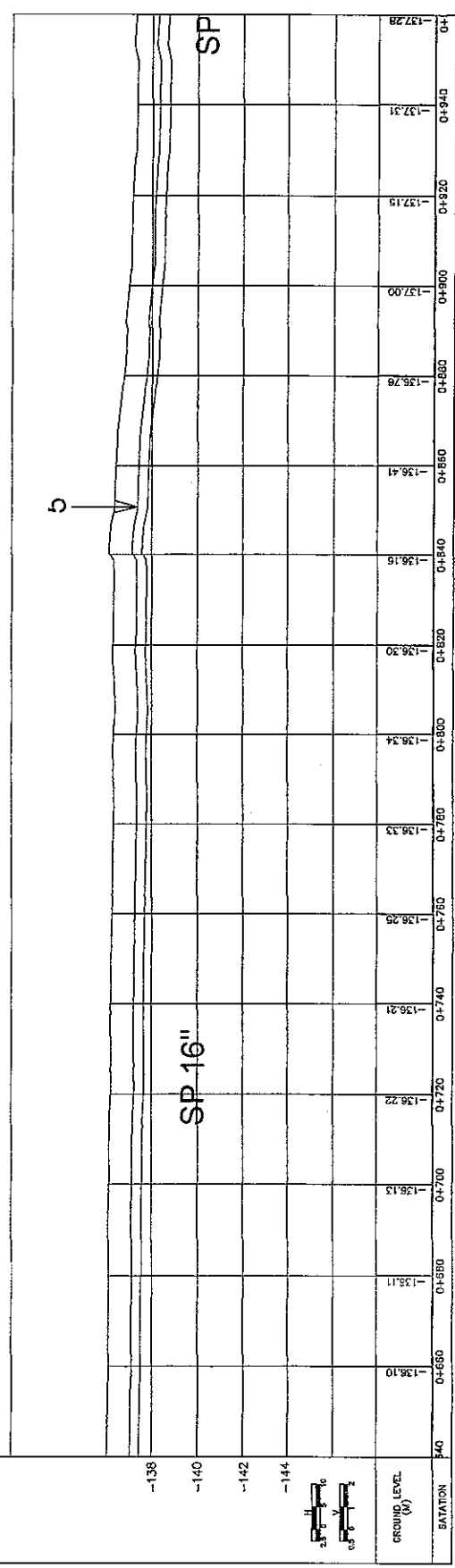
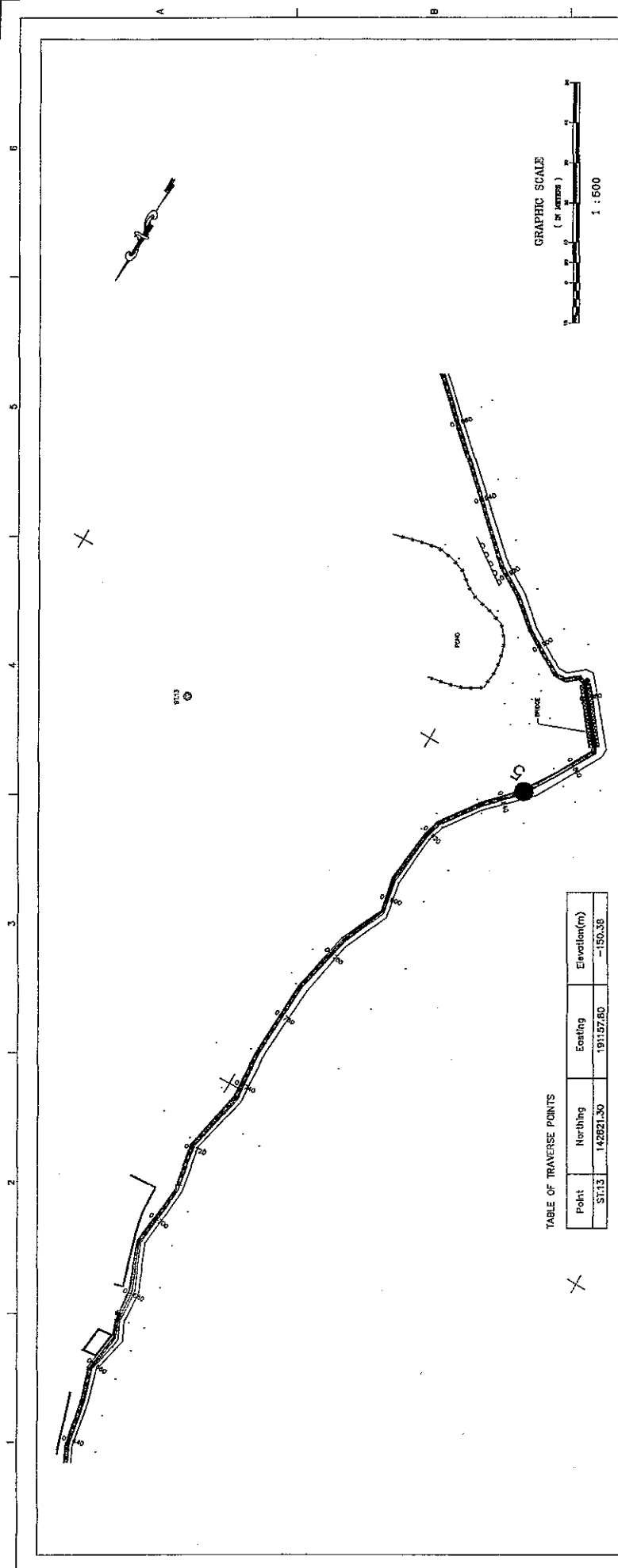


**NIPPON KOEI CO., LTD.**

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY

\*DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN

SATATION	220	0+340	0+360	0+380	0+400	0+420	0+440	0+460	0+480	0+500	0+520	0+540	0+560	0+580	0+600	0+620	0+640
GROUND LEVEL (M)	-133.84	-134.04	-134.67	-134.92	-135.15	-135.17	-134.59	-134.59	-134.97	-134.95	-135.69	-135.92	-135.97	-135.88	-135.85	-136.01	-136.04



SHEET 19 OF 68  
DWG D-12  
DATE AUGUST, 2005  
SCALE: H=500 V=100

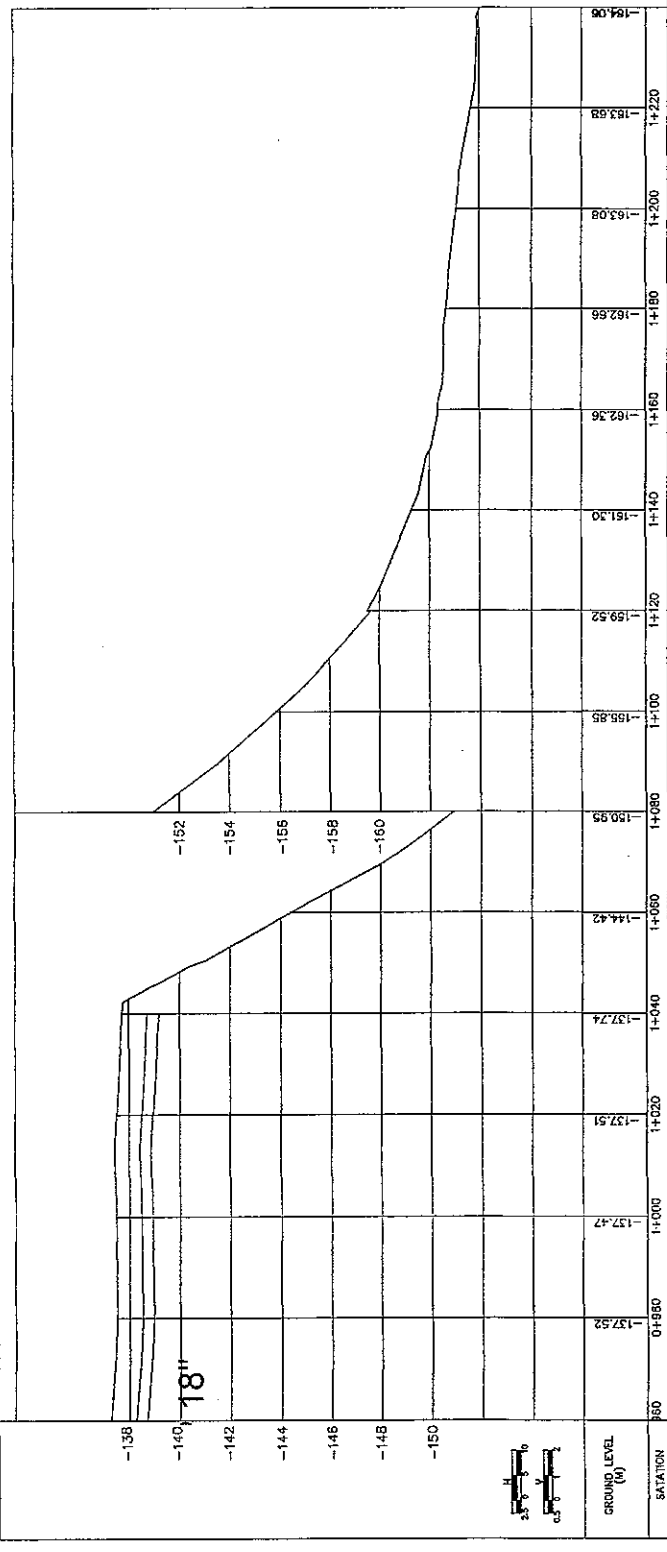
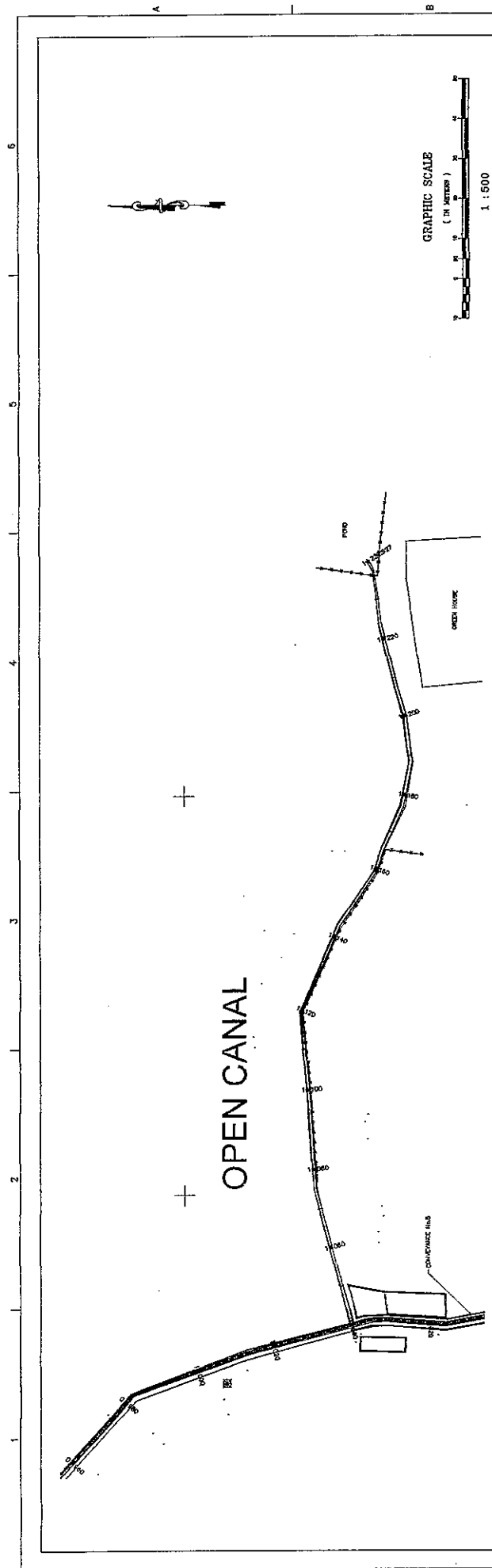
**JICA**

**NIPPON KOEI CO., LTD.**

CONVEYANCE LINE NO.4  
PLAN & PROFILE  
FROM STA 0+640 TO 0+960

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY

DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN



DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN

**THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY**

**NIPPON KOEI CO., LTD.**

**JICA**

CONVEYANCE LINE NO.4  
PLAN & PROFILE  
FROM STA 0+960 TO 1+239.93 (END)

SHEET 16 OF 68
DWG D-13
DATE AUGUST, 2008
SCALE H:500 V:100

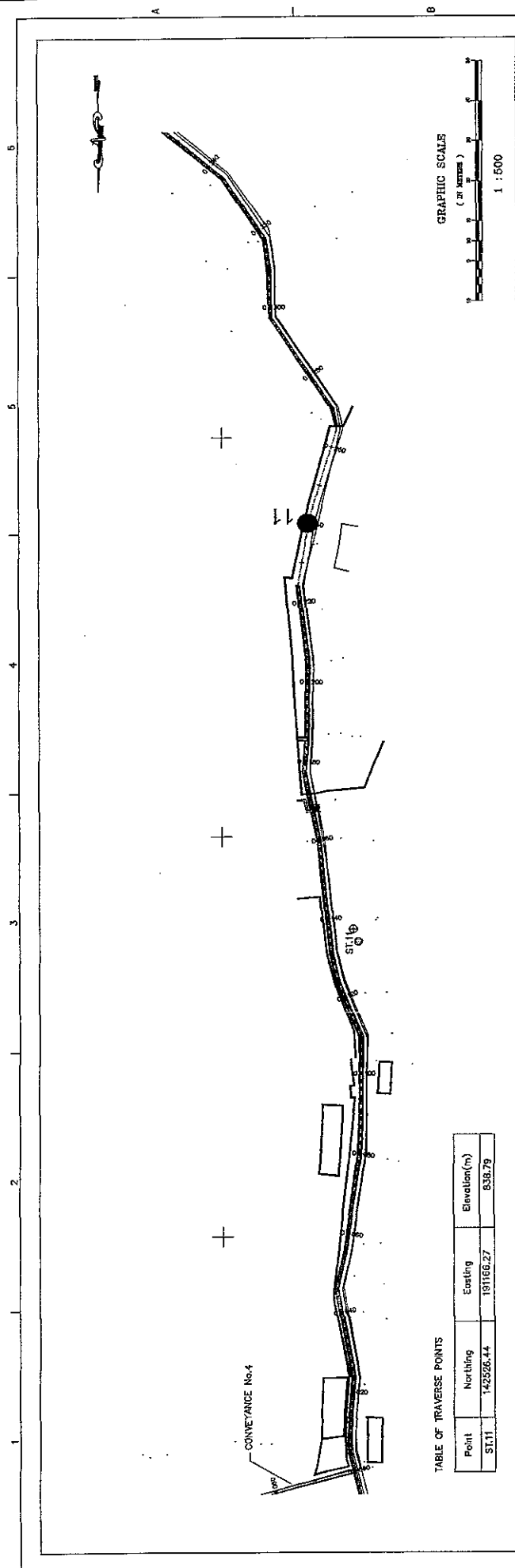
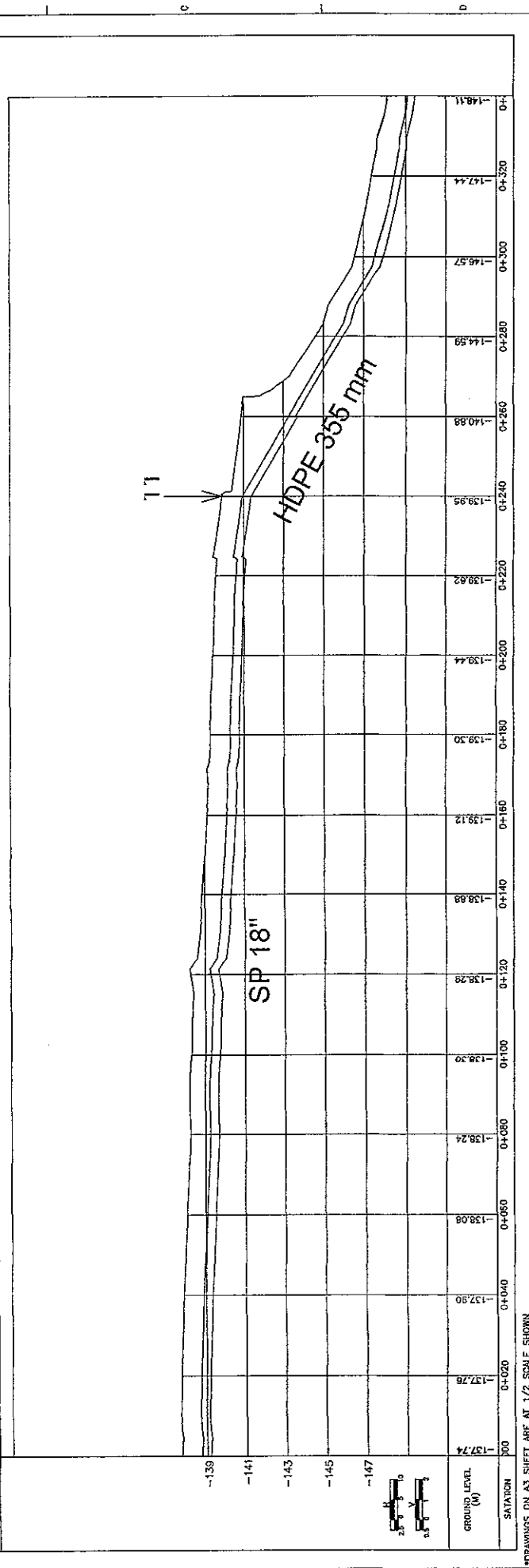


TABLE OF TRAVERSE POINTS

Point	Northing	Easting	Elevation(m)
ST.11	142326.44	191166.27	838.79



\*DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY

**NIPPON KOEI CO., LTD.**



CONVEYANCE LINE NO.5  
PLAN & PROFILE  
FROM STA. 0+000 TO 0+340

SHEET 17 OF 68  
DWG. 0-14  
DATE AUGUST, 2008  
SCALE: H1800 V11:100

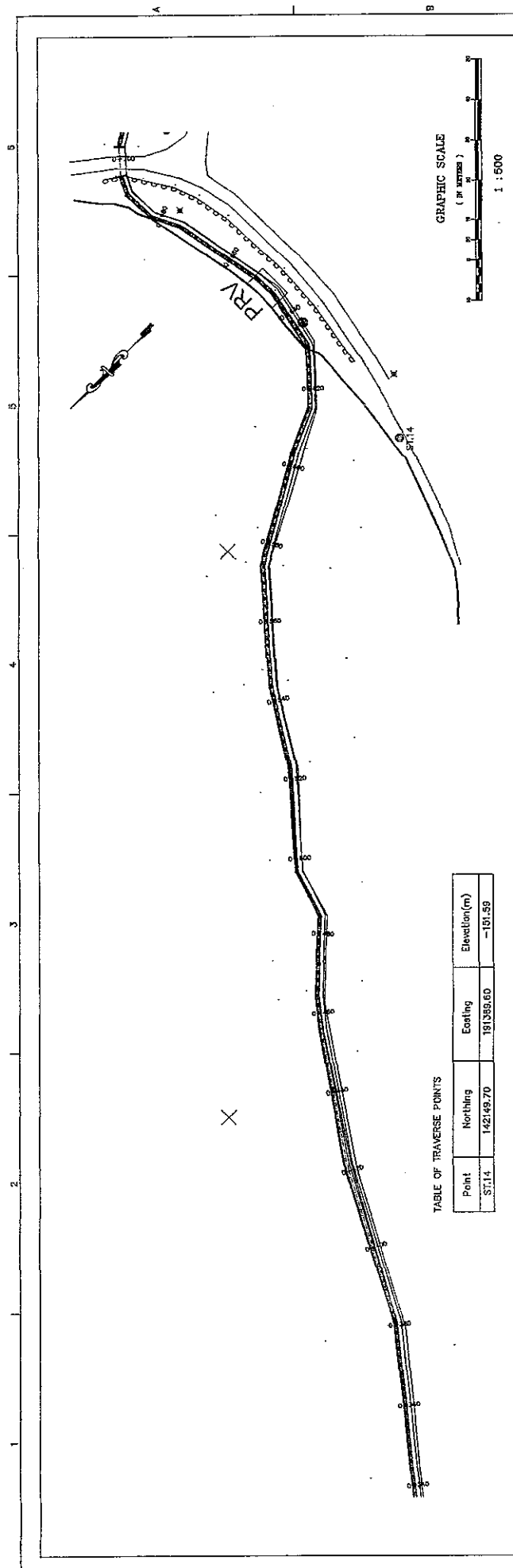
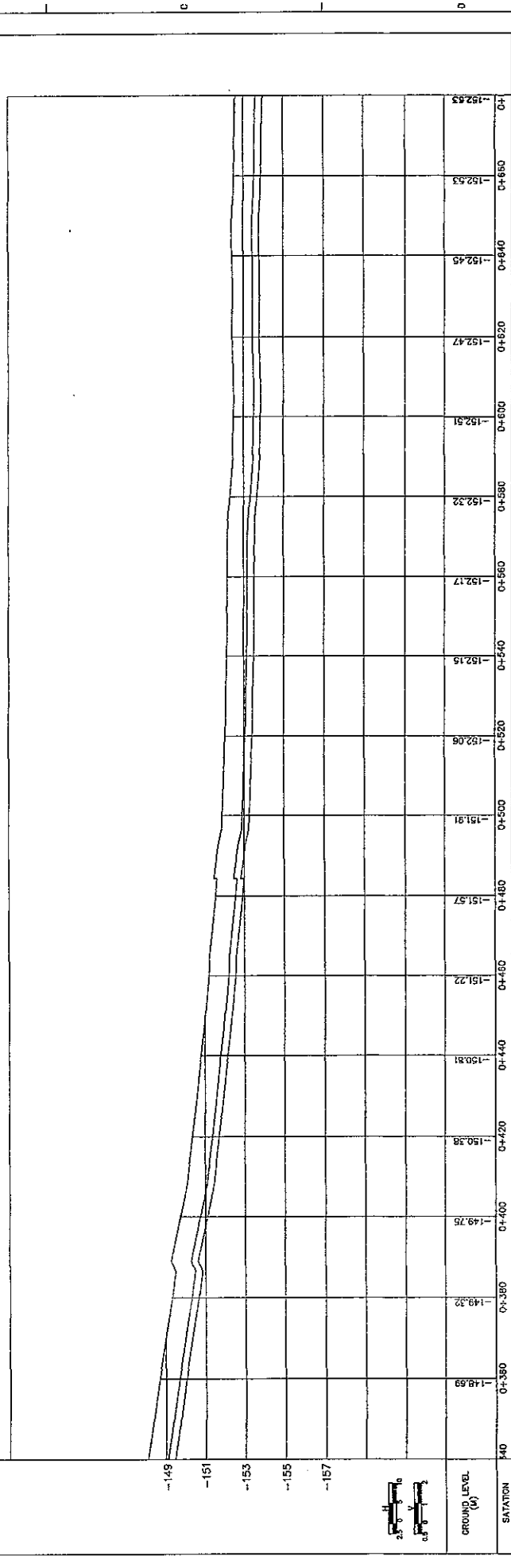


TABLE OF TRAVERSE POINTS

Point	Northing	Easting	Elevation(m)
ST114	142149.70	181385.60	-131.59



\*DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN

**NIPPON KOEI CO., LTD.**

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY

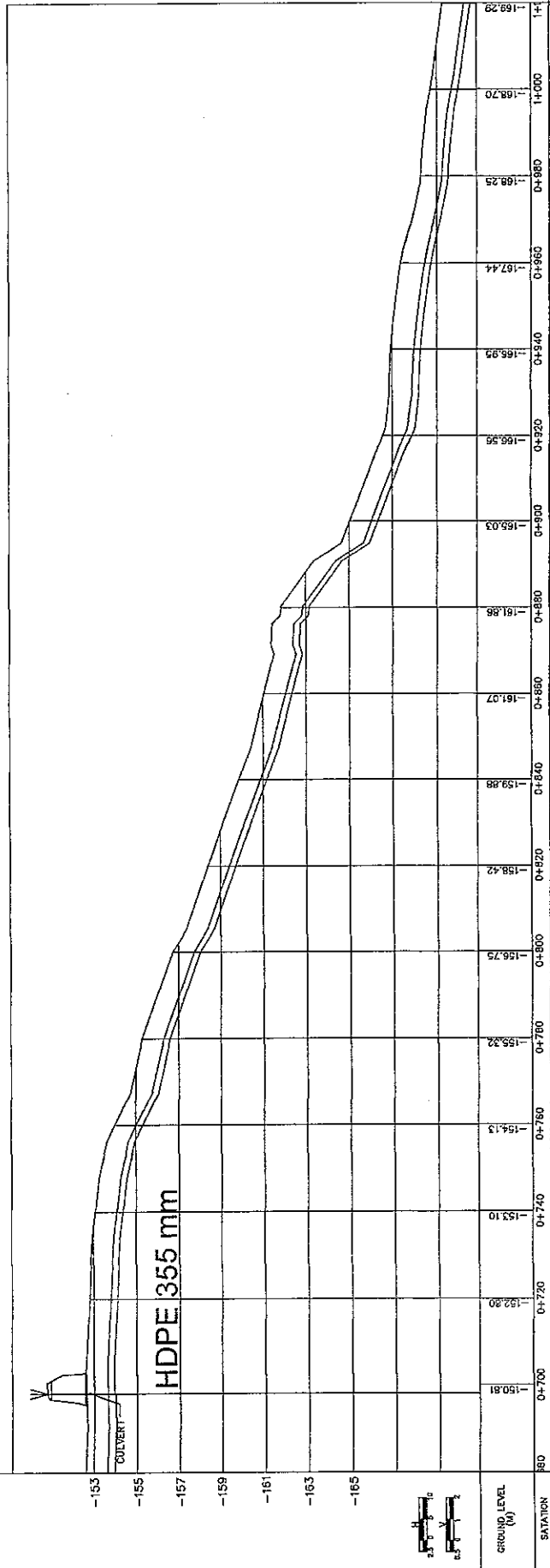
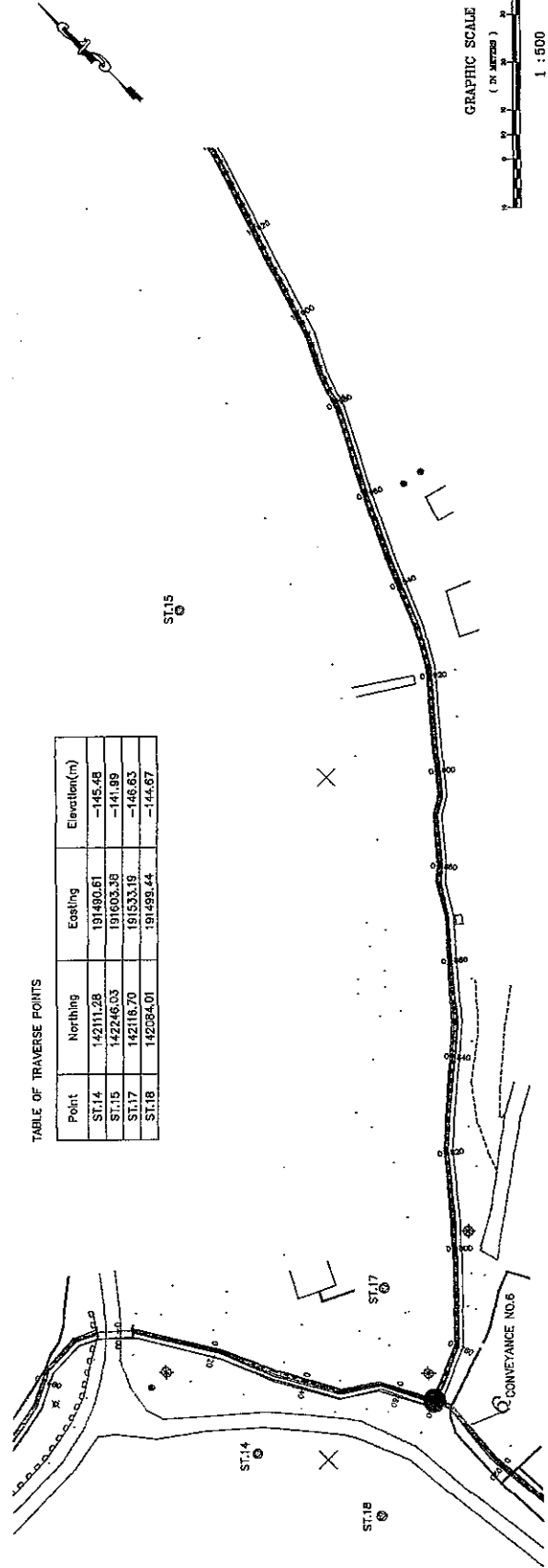
CONVEYANCE LINE NO.5  
PLAN & PROFILE  
FROM STA 0+340 TO 0+680

**JICA**

SHEET 18 OF 68
DWG D-15
DATE AUGUST, 2003
SCALE 1:500 (PLAN)

TABLE OF TRAVERSE POINTS

Point	Northing	Easting	Elevation(m)
ST.14	142111.28	191480.61	-145.48
ST.15	142246.03	191603.38	-141.89
ST.17	142116.70	191533.19	-146.63
ST.18	142084.01	191488.44	-144.67



SHEET 19 OF 68  
 LWS D-16  
 DATE AUGUST, 2008  
 SCALE: H:500 V:100

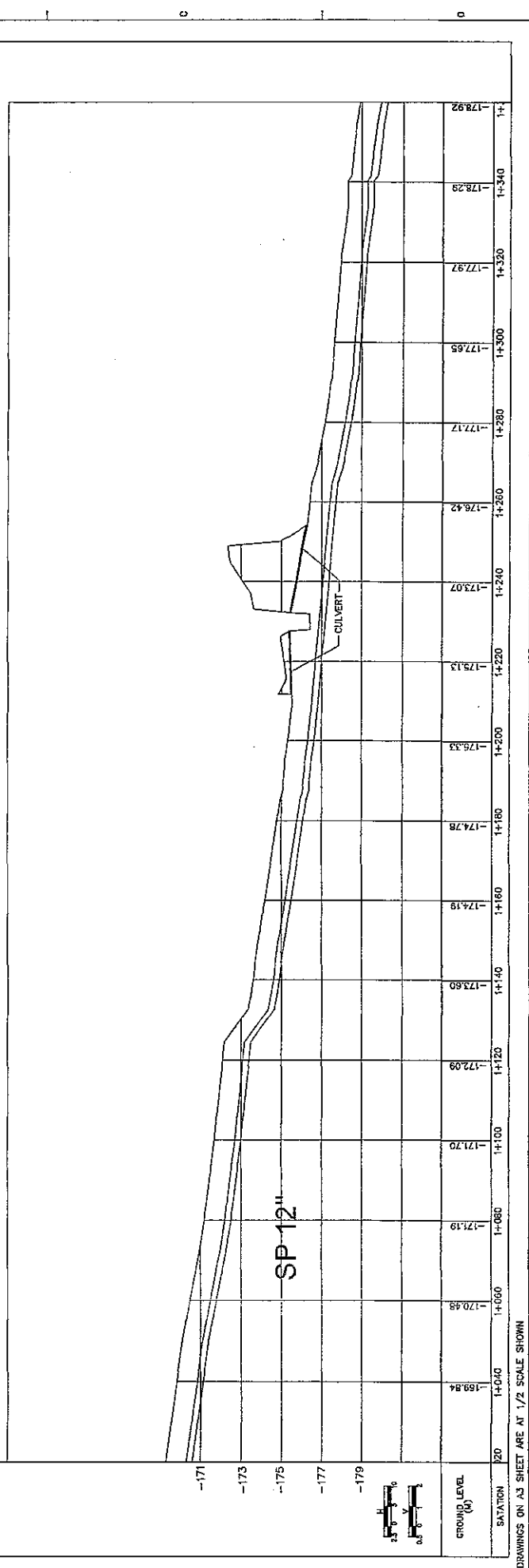
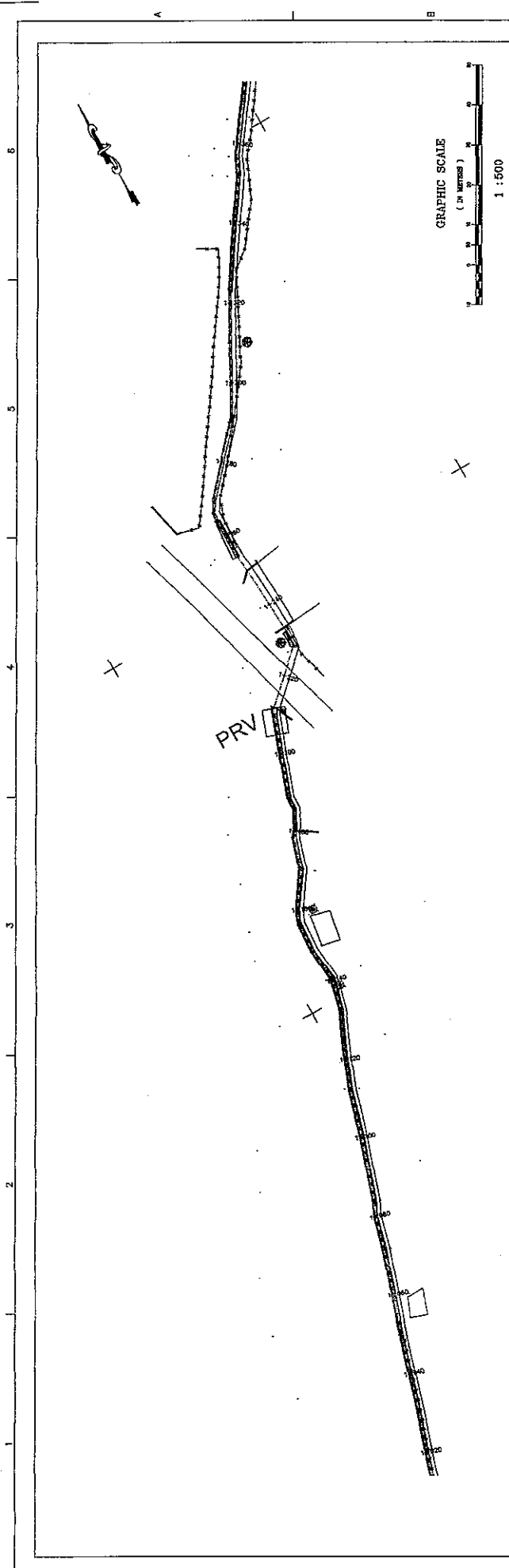
CONVEYANCE LINE NO.5  
 PLAN & PROFILE  
 FROM STA 0+680 TO 1+020



NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY

DRAWINGS ON AS SHEET ARE AT 1/2 SCALE SHOWN



**NIPPON KOEI CO., LTD.**

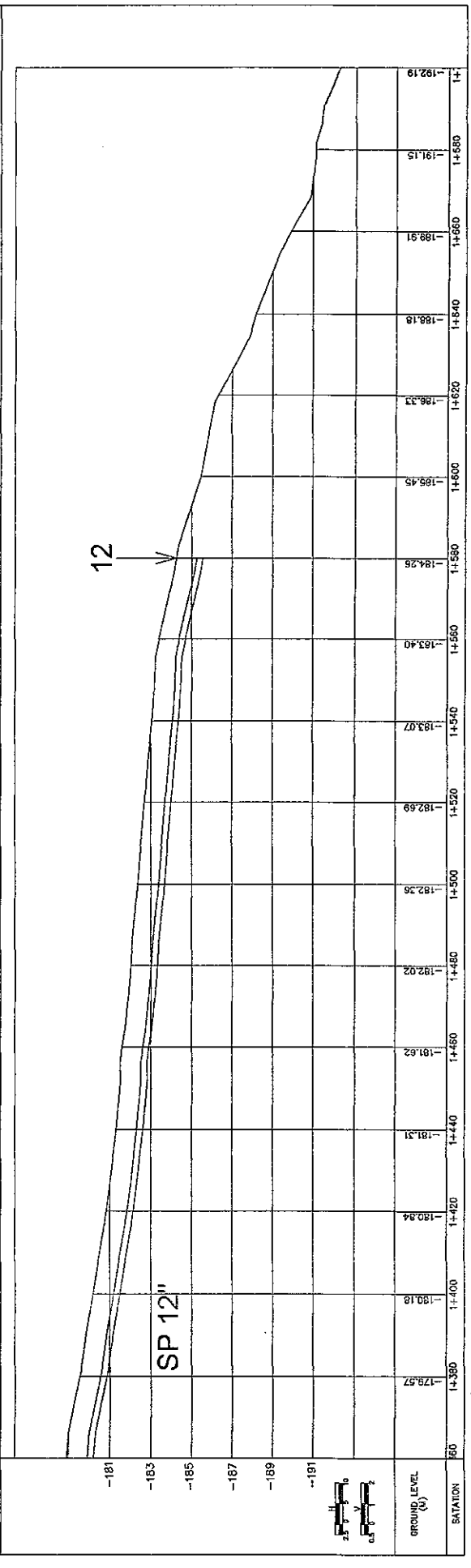
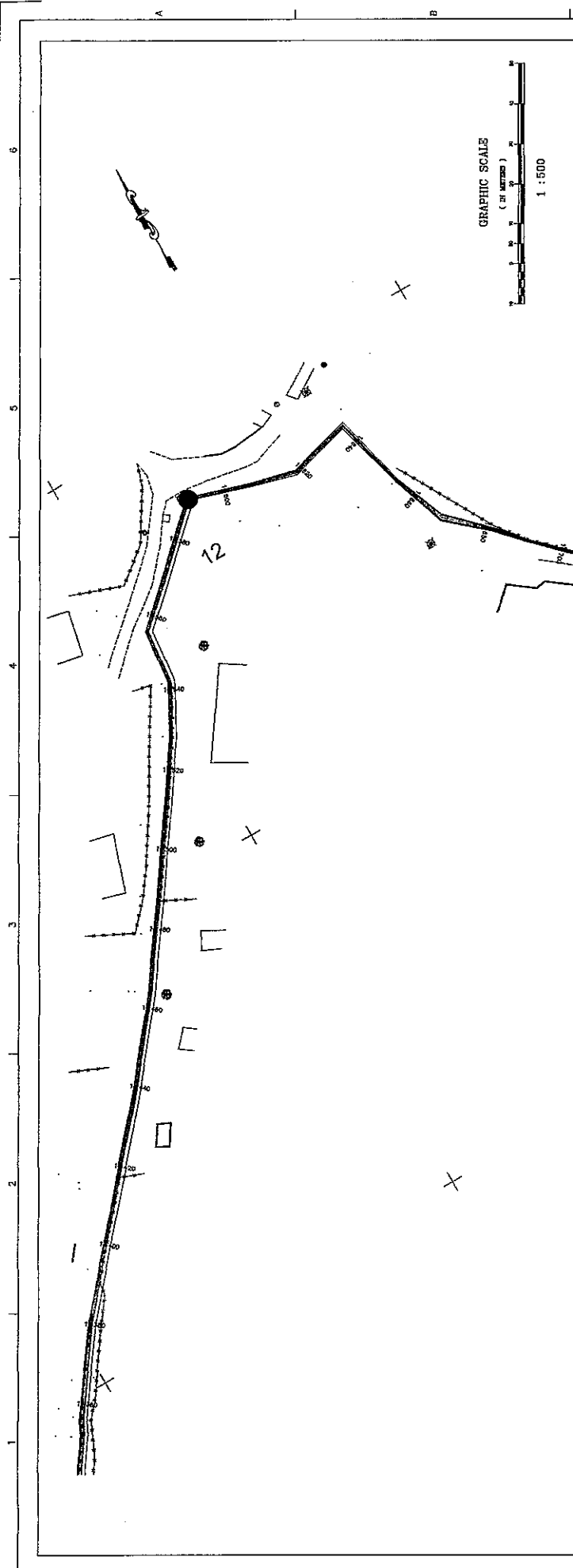
**JICA**

CONVEYANCE LINE NO.5  
PLAN & PROFILE  
FROM STA 1+020 TO 1+360

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY

SHEET 20 OF 68  
DWG D-17  
DATE AUGUST, 2008  
SCALE: 1:1500 (H/D)





SHEET 21 OF 68  
DWG. P-18  
DATE AUGUST, 2008  
SCALE 1:11500 V:1:100

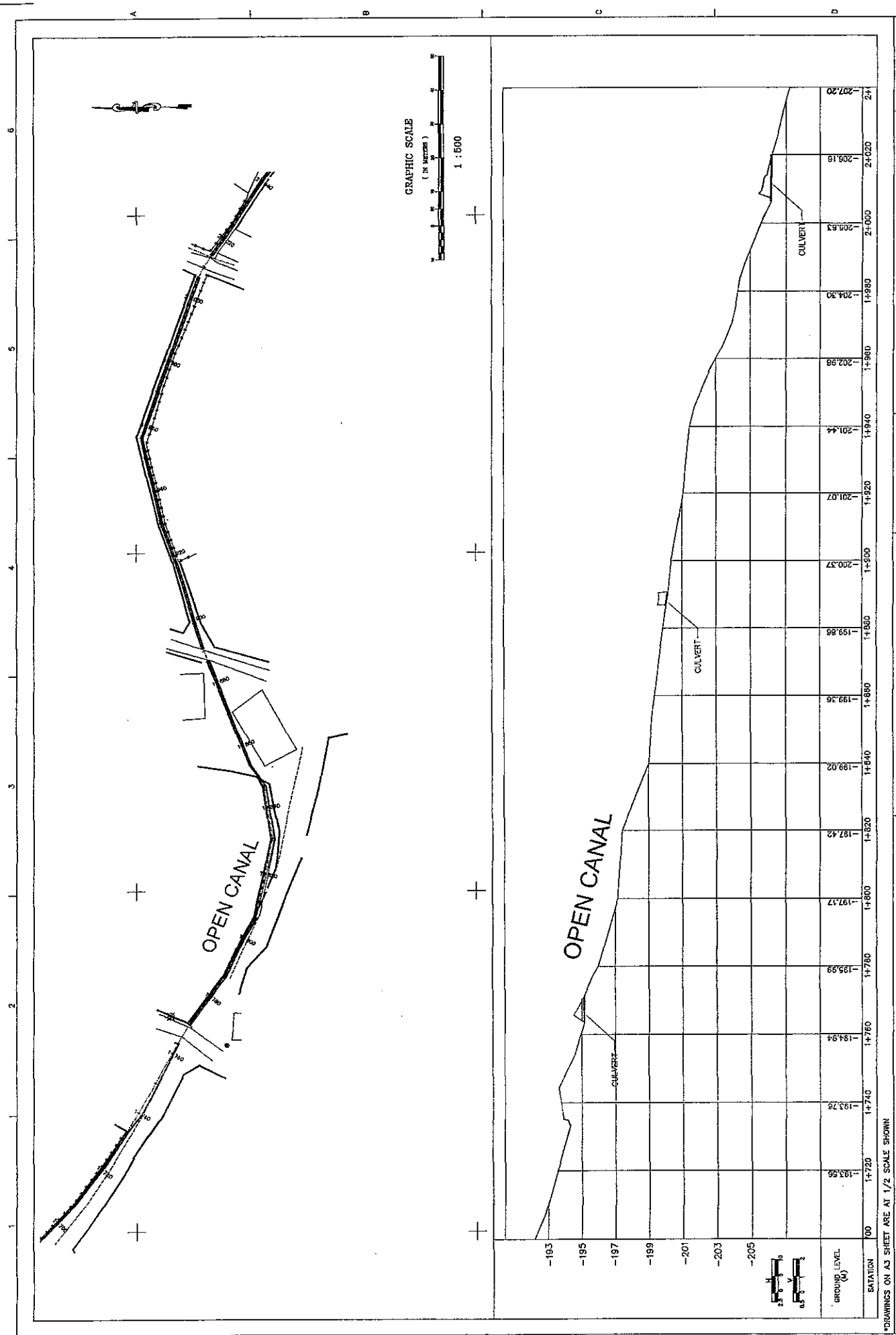
**JICA**

**NIPPON KOEI CO., LTD.**

CONVEYANCE LINE NO.5  
PLAN & PROFILE  
FROM STA 1+360 TO 1+700

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY

DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN



SHEET 22 OF 88  
 DWG. D-19  
 DATE AUGUST, 2008  
 SCALE: H=500 V=100

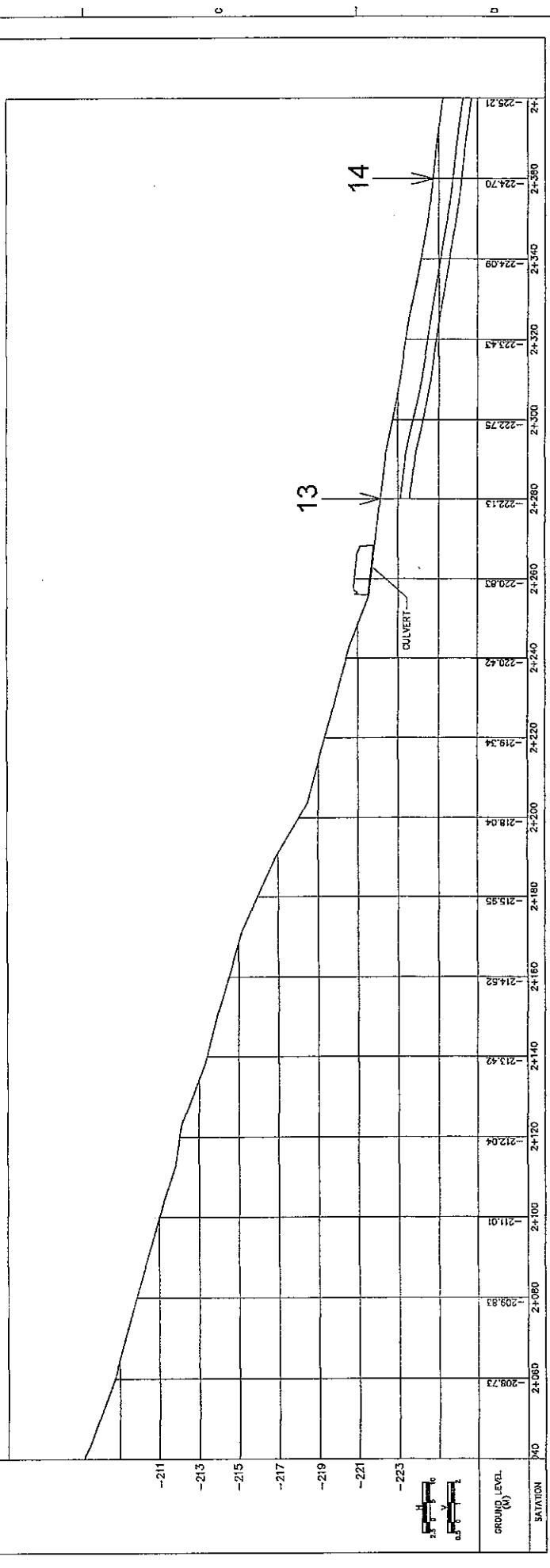
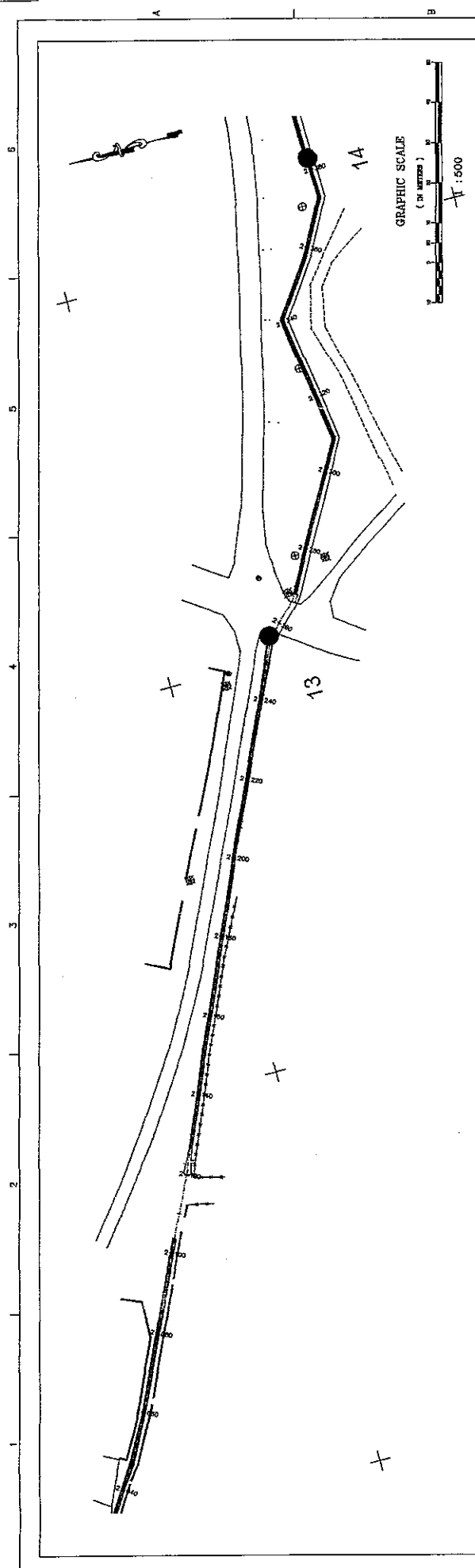
CONVEYANCE LINE NO.5  
 PLAN & PROFILE  
 FROM STA 1+700 TO 2+040



**NIPPON KOEI CO., LTD.**

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY

DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN



DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN

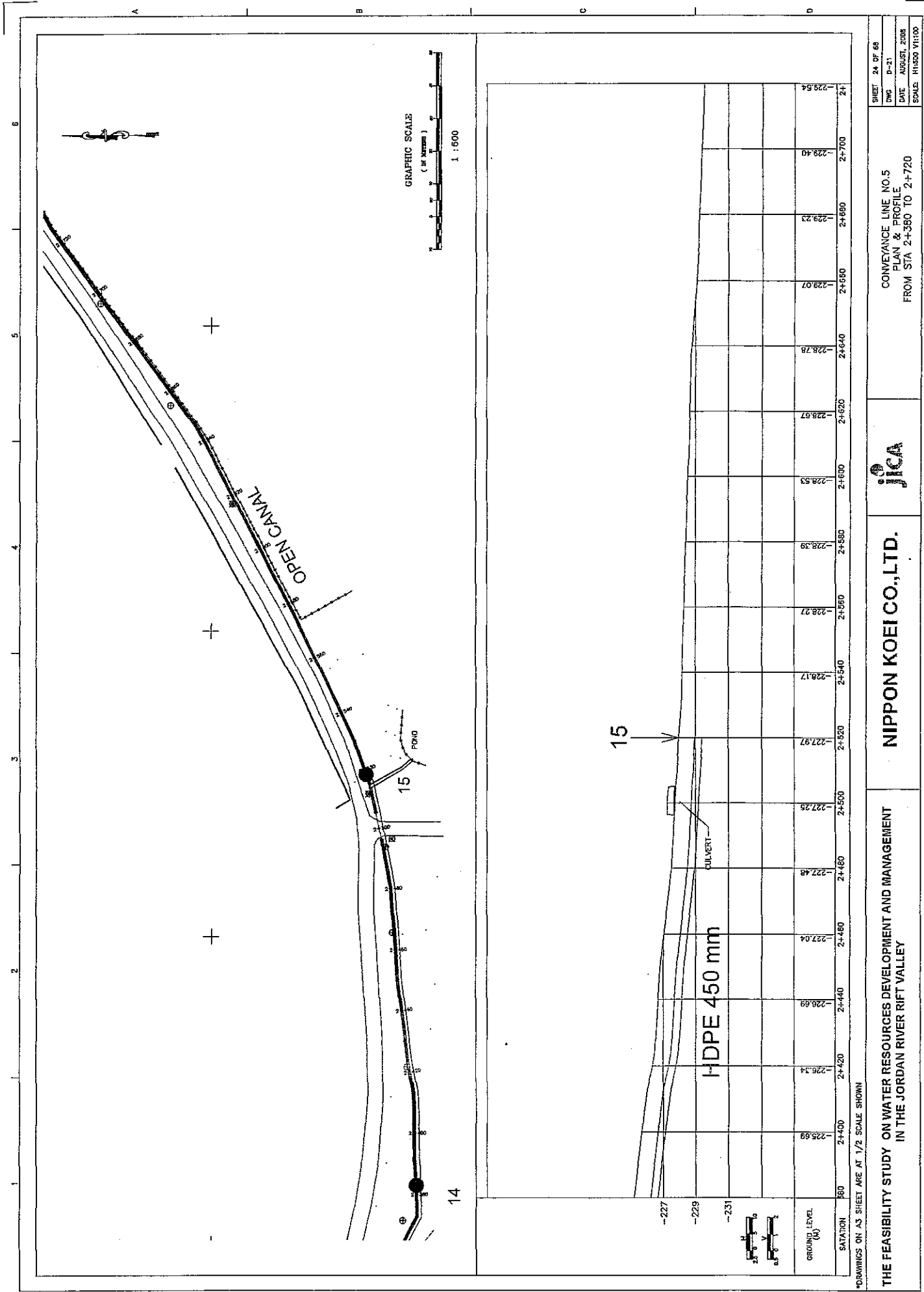
THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY

**NIPPON KOEI CO., LTD.**

**JICA**

CONVEYANCE LINE NO.5  
PLAN & PROFILE  
FROM STA 2+040 TO 2+360

SHEET 23 OF 69  
DWG. D-20  
DATE AUGUST, 2008  
SCALE 1H:500 1V:100



SHEET 24 OF 68  
 DWG D-21  
 DATE AUGUST, 2008  
 SCALE H1500 V1100

CONVEYANCE LINE NO.5  
 PLAN & PROFILE  
 FROM STA 2+380 TO 2+720

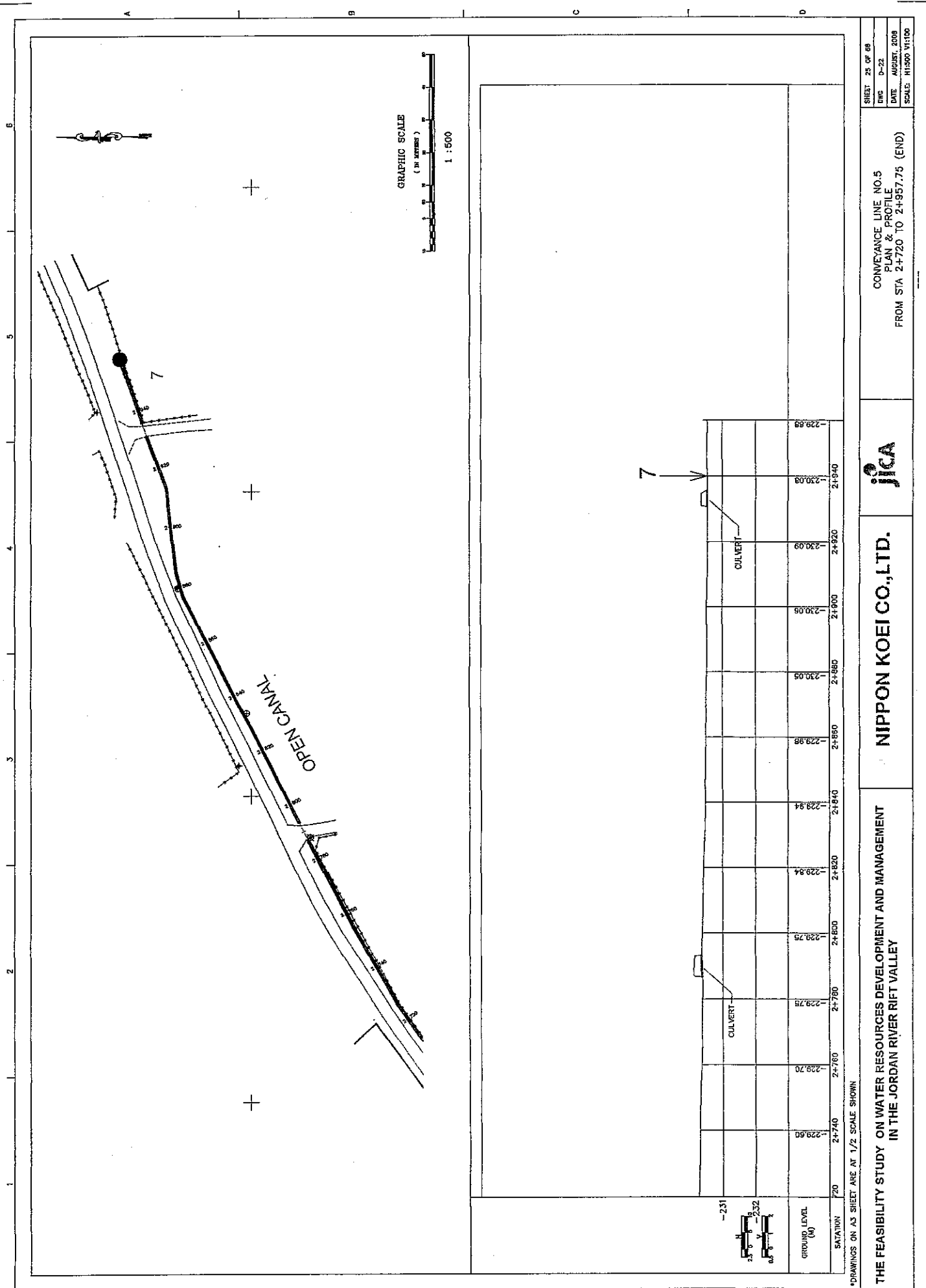


NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY

SATATION	2+400	2+420	2+440	2+460	2+480	2+500	2+520	2+540	2+560	2+580	2+600	2+620	2+640	2+660	2+700	2+720
GROUND LEVEL (M)	-226.69	-226.34	-226.69	-227.04	-227.48	-227.25	-227.97	-228.17	-228.27	-228.39	-228.53	-228.67	-228.78	-229.07	-229.23	-229.54

\*DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN



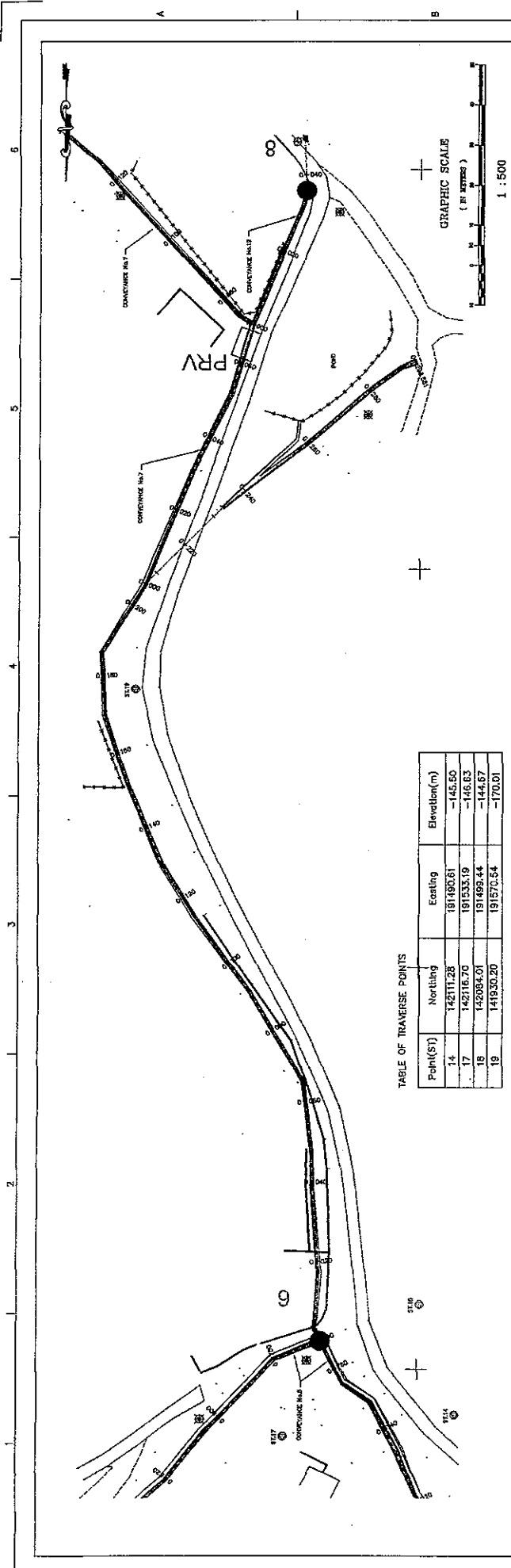
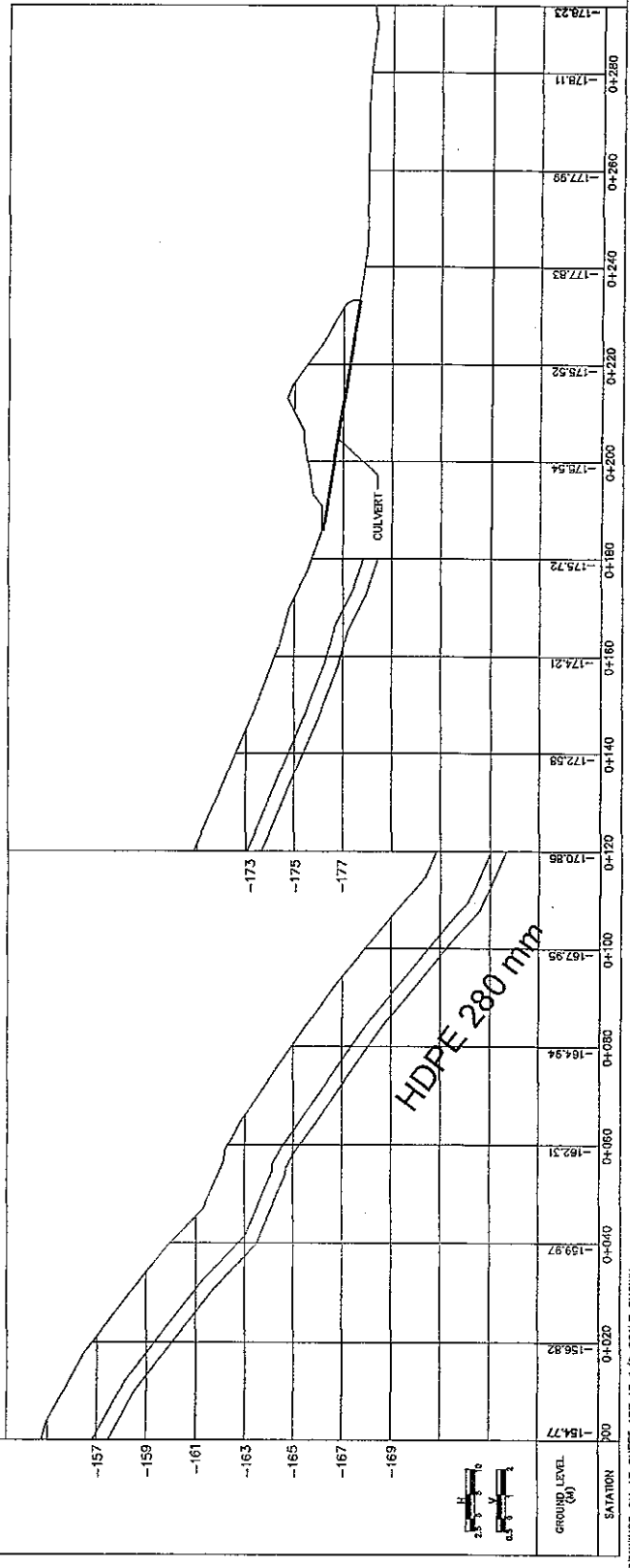


TABLE OF TRAVERSE POINTS

Point(St)	Northing	Easting	Elevation(m)
14	142111.28	191490.61	-145.60
17	142116.70	191533.19	-146.63
18	142084.01	191499.44	-144.67
19	141930.20	191570.34	-170.01



SHEET 26 OF 68  
DWG. D-25  
DATE: AUGUST, 2008  
SCALE: H1:500 V1:100

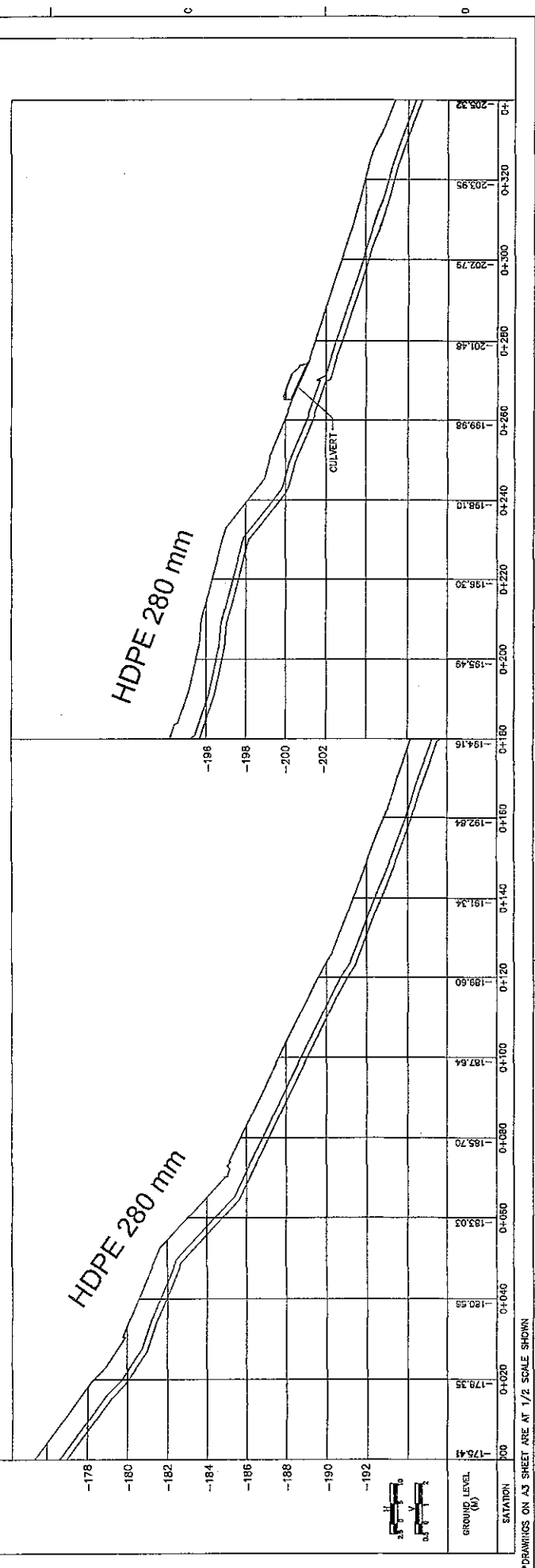
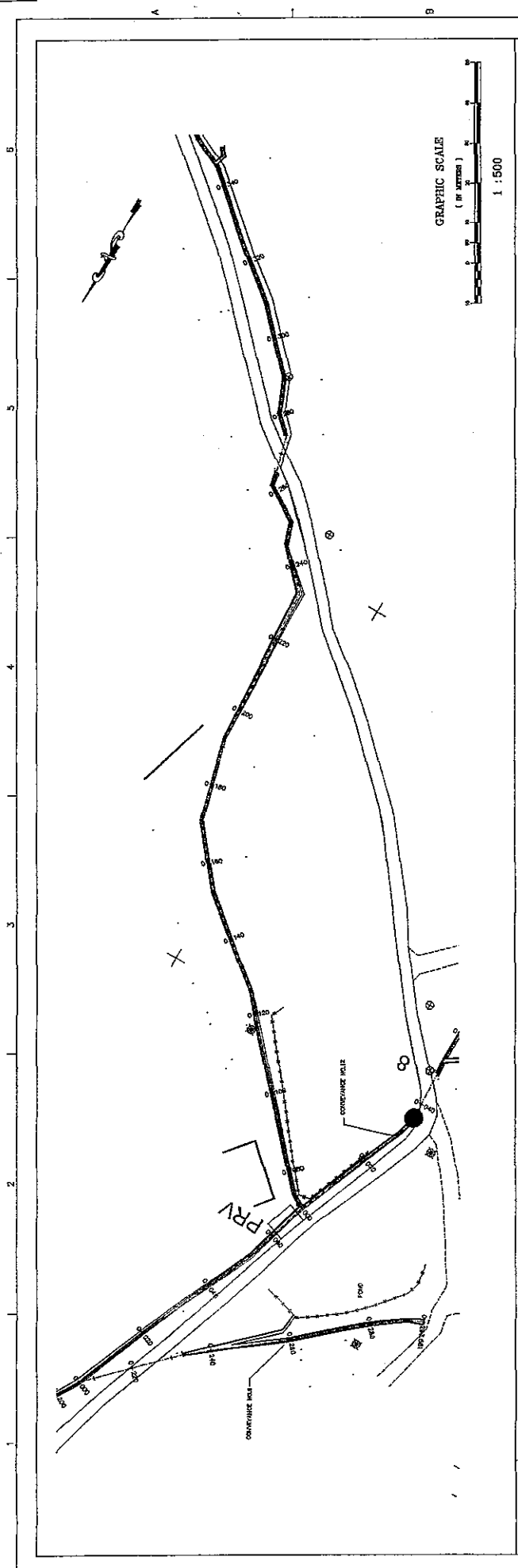
**CONVEYANCE LINE NO.6  
PLAN & PROFILE  
FROM STA 0+000 TO 0+293.58 (END)**

**jica**

**NIPPON KOEI CO.,LTD.**

**THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY**

\*DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN



SHEET 27 OF 68  
 DWG. D-24  
 DATE AUGUST, 2008  
 SCALE: H:1500 V:1100

CONVEYANCE LINE NO.7  
 PLAN & PROFILE  
 FROM STA 0+000 TO 0+340

**jica**

**NIPPON KOEI CO., LTD.**

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY

\*DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN

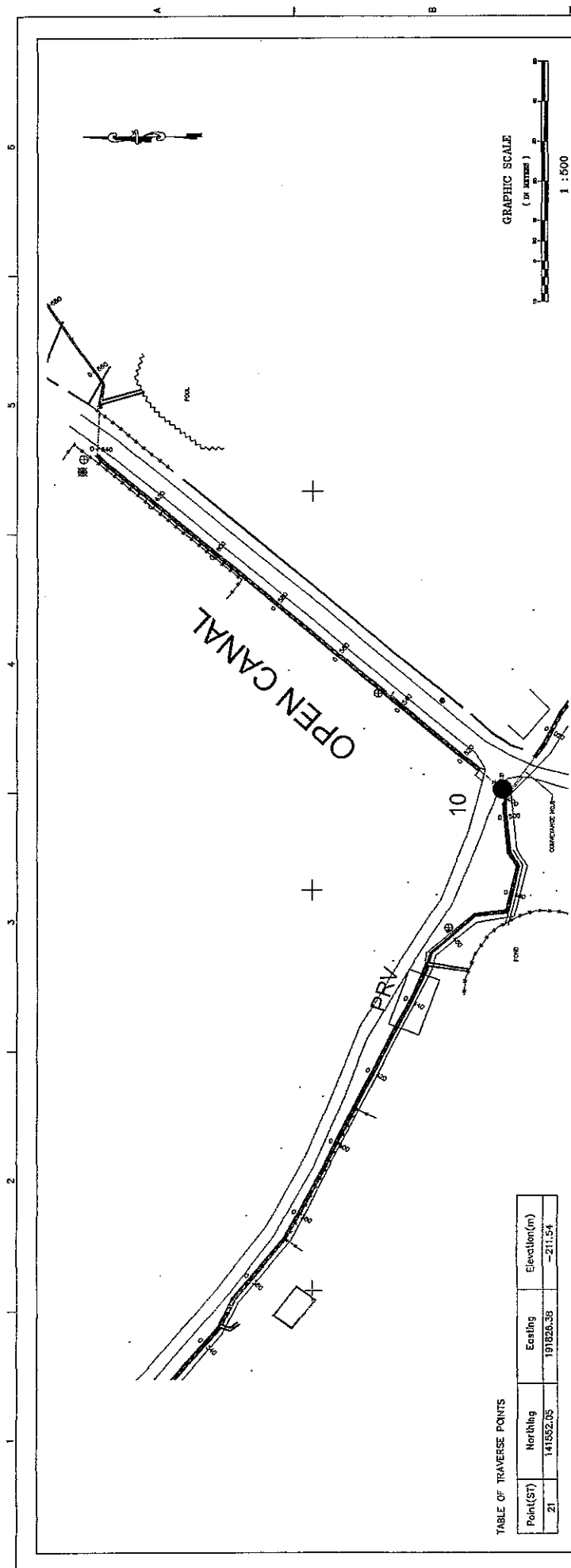
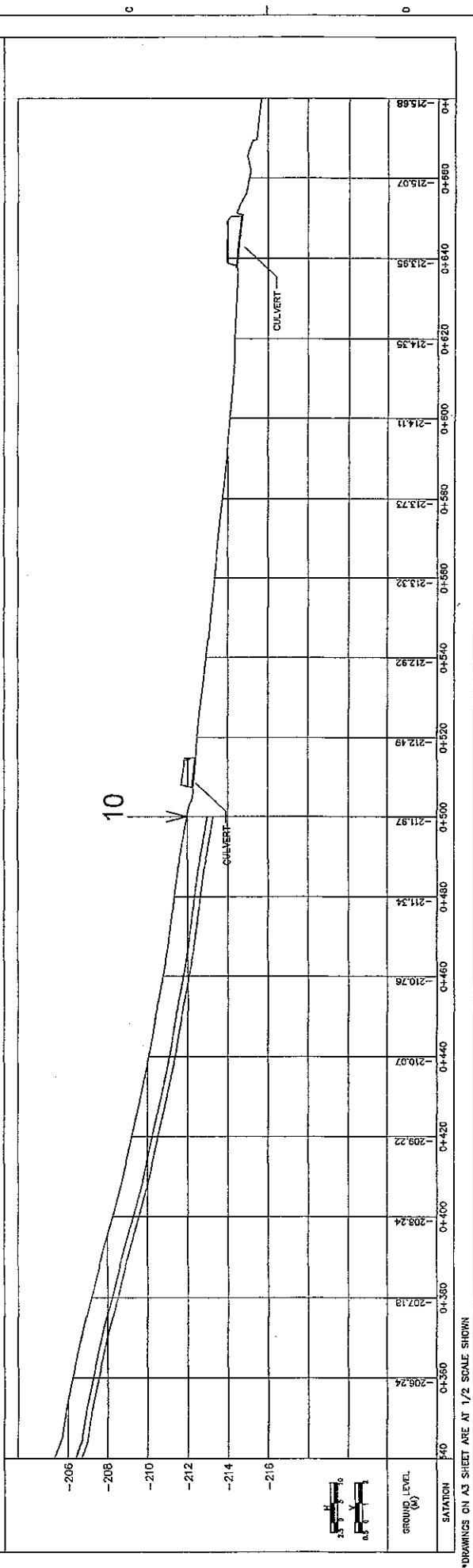


TABLE OF TRAVERSE POINTS

Point(ST)	Northing	Easting	Elevation(m)
21	141552.05	197828.35	-211.54



**NIPPON KOEI CO., LTD.**

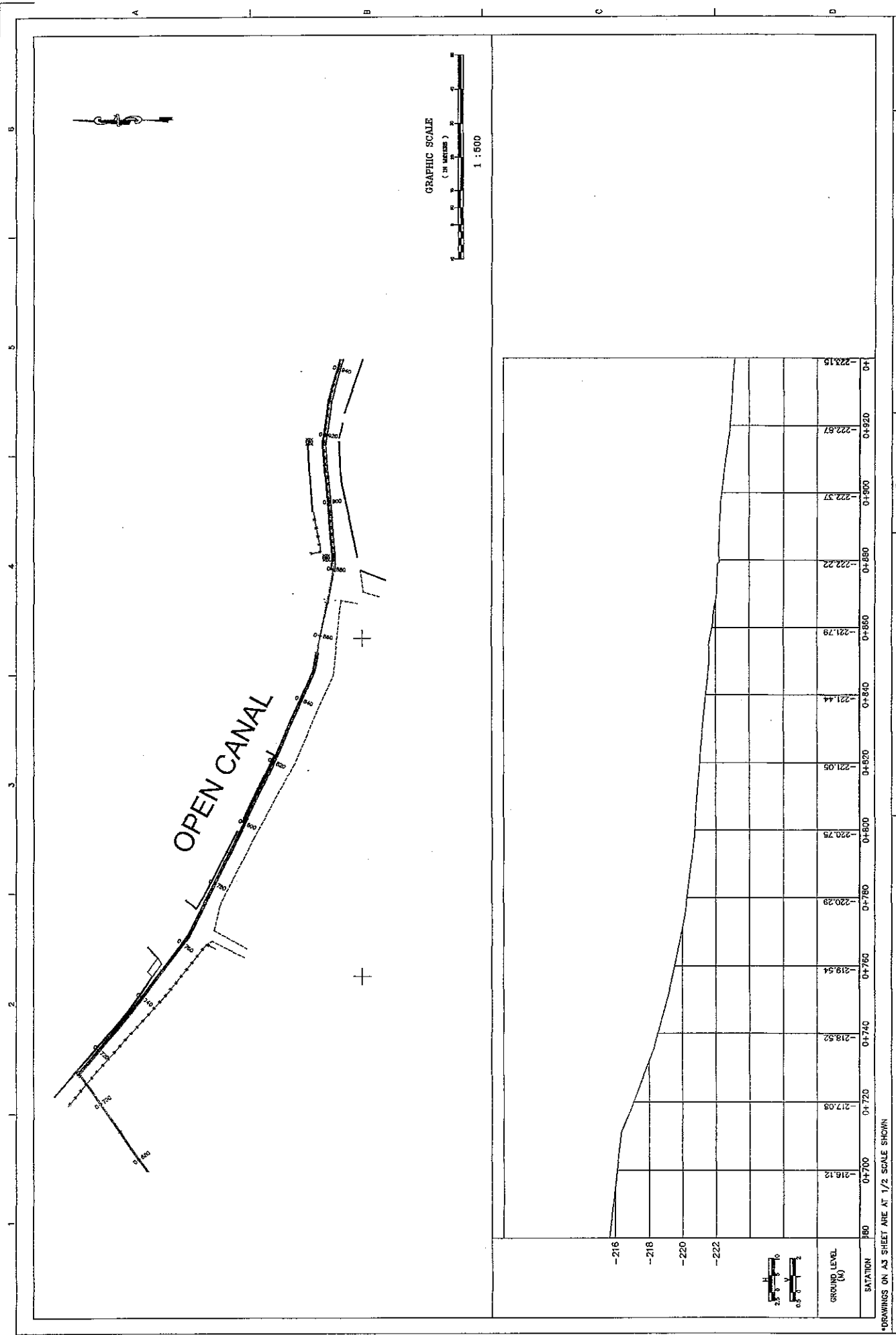
jica

CONVEYANCE LINE NO.7  
PLAN & PROFILE  
FROM STA 0+340 TO 0+680

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY

SHEET 28 OF 68  
DWG D-25  
DATE AUGUST, 2008  
SCALE 1H:500 1V:100





SATATION	0+700	0+720	0+740	0+760	0+780	0+800	0+820	0+840	0+860	0+880	0+900	0+920	0+940
GROUND LEVEL (M)	216.12	217.08	218.92	219.54	220.29	220.75	221.05	221.44	221.79	222.22	222.37	222.67	223.15

SHEET 28 OF 68  
DWG. D-28  
DATE: AUGUST, 2008  
SCALE: H1:500 V1:100

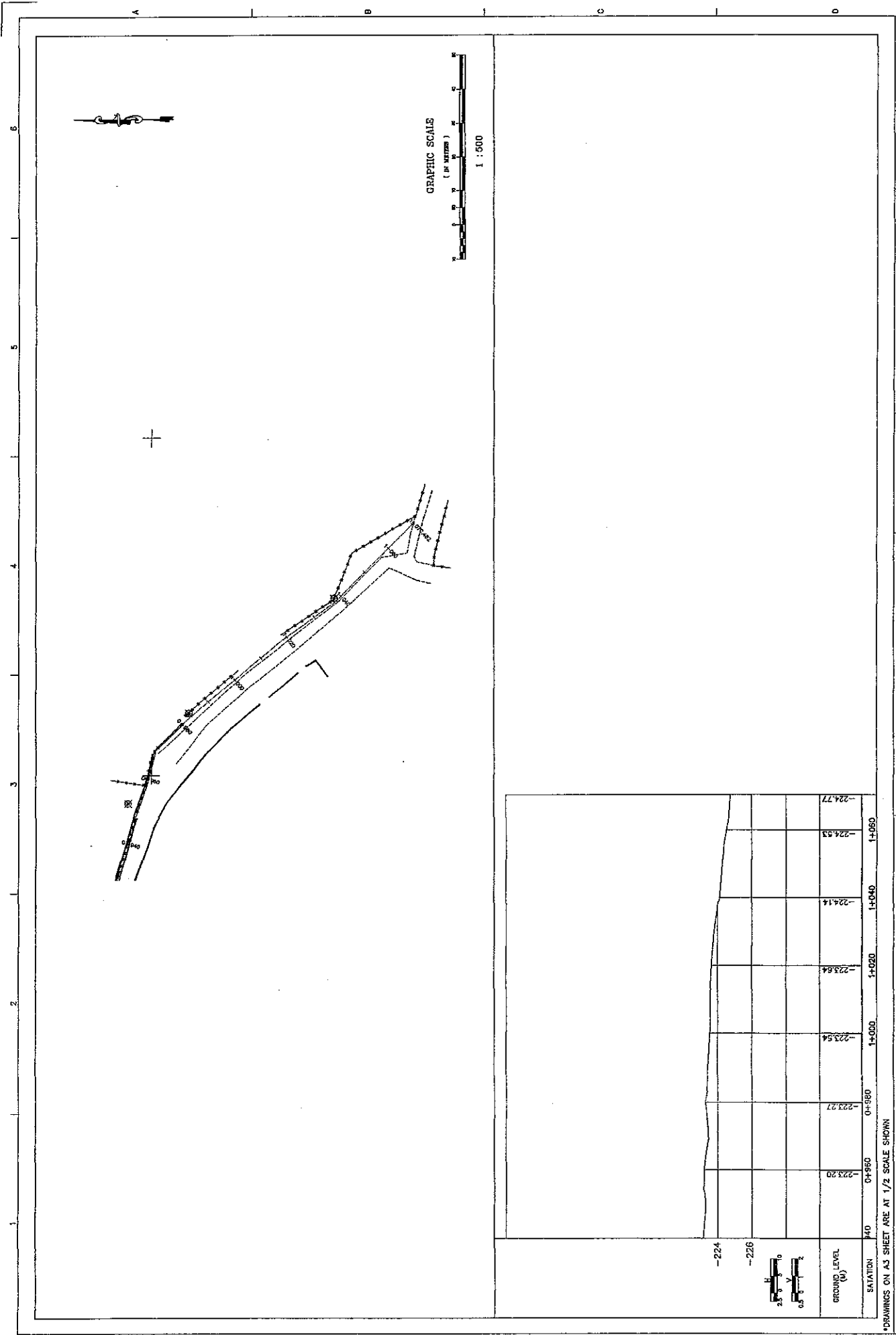
**JICA**

**NIPPON KOEI CO., LTD.**

CONVEYANCE LINE NO.7  
PLAN & PROFILE  
FROM STA 0+650 TO 0+940

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY

DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN



SHEET 30 OF 68  
 DWG. P-27  
 DATE: AUGUST, 2009  
 SCALE: H1:500 V1:100

CONVEYANCE LINE NO.7  
 PLAN & PROFILE  
 FROM STA 0+940 TO 1+070.48 (END)

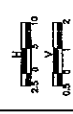


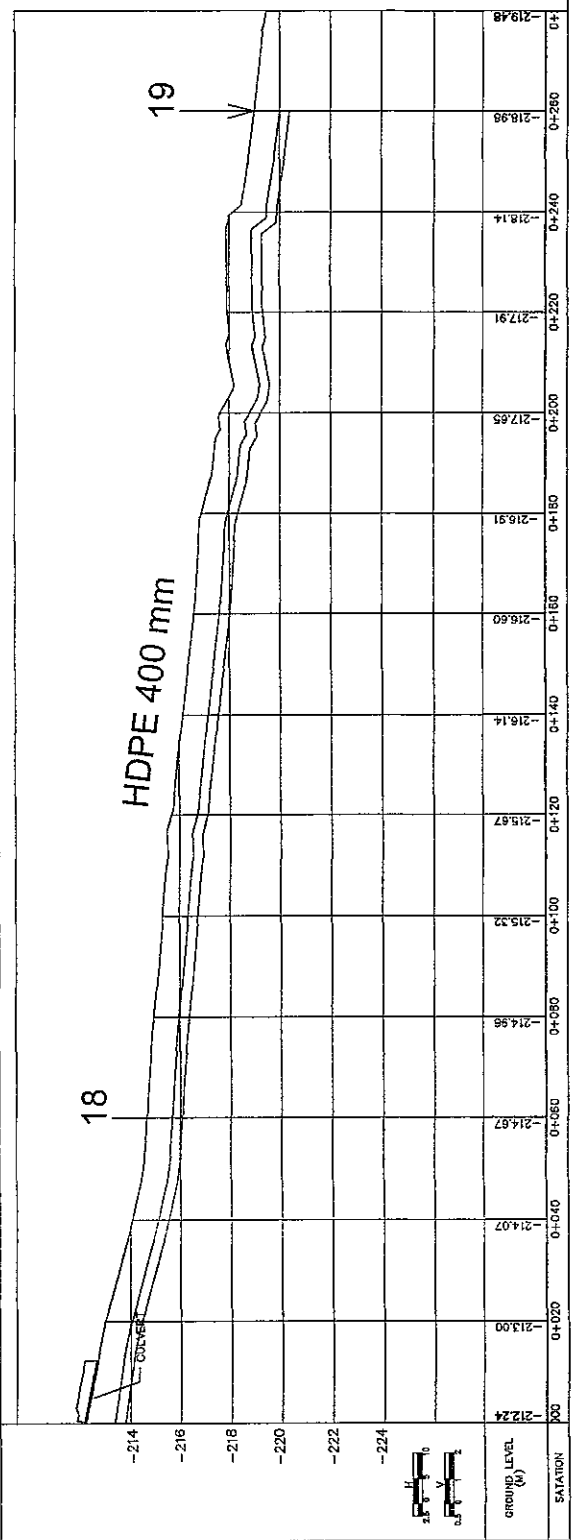
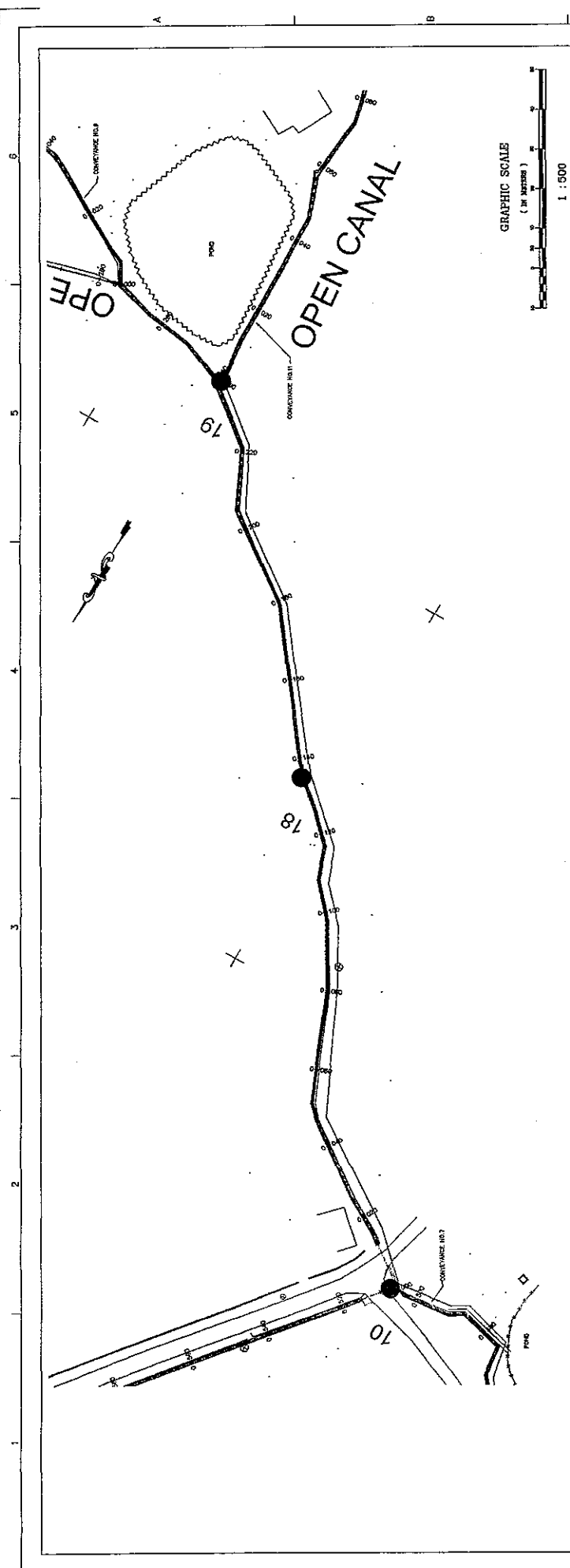
NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY

\*DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN

GROUND LEVEL (M)	STATION	0+940	0+980	1+000	1+020	1+040	1+050
-224							
-226							
		223.20	223.27	223.54	223.64	224.14	224.53
							224.77



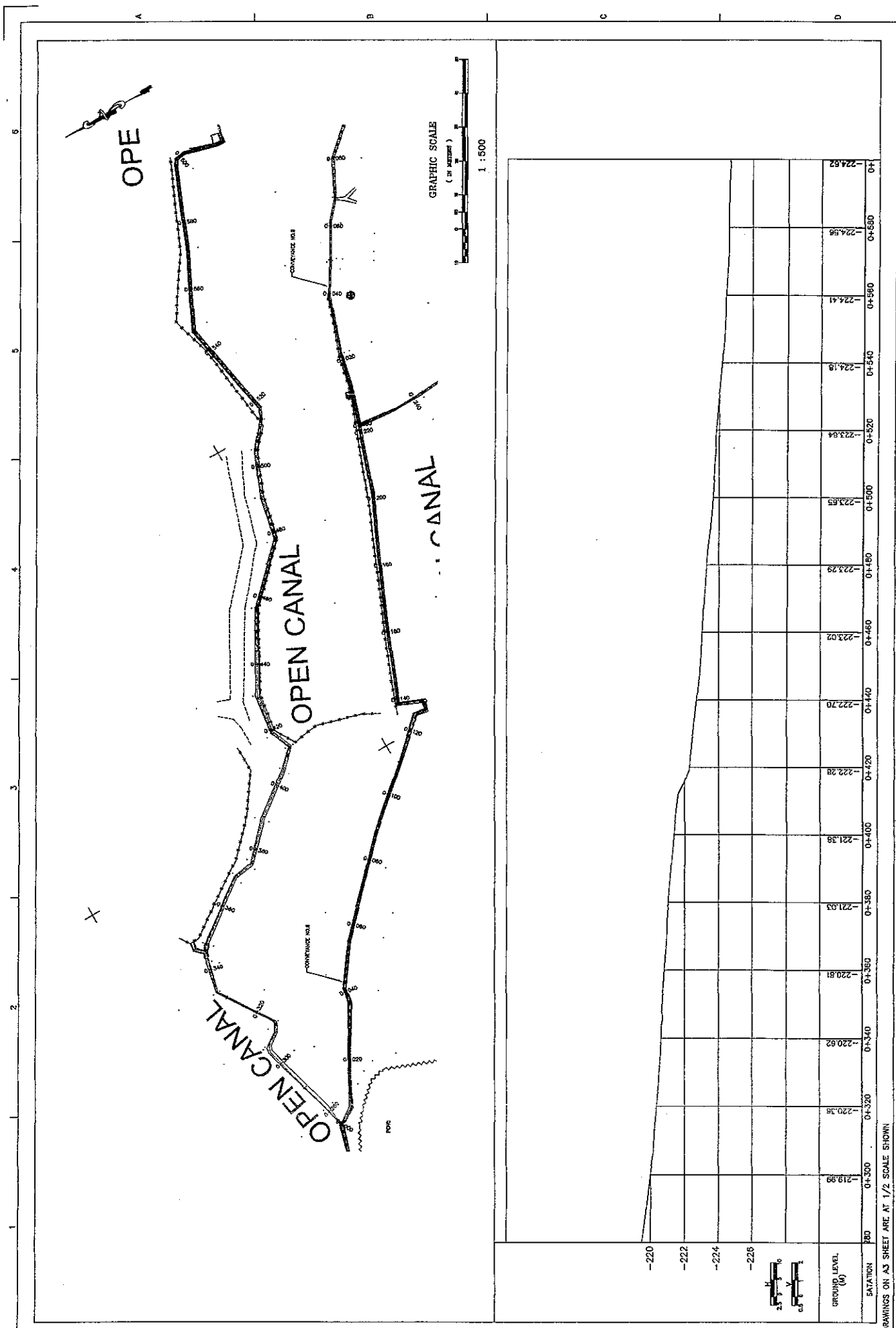


DRAWINGS ON AS SHEET ARE AT 1/2 SCALE SHOWN

<p>CONVEYANCE LINE NO.8 PLAN &amp; PROFILE FROM STA 0+000 TO 0+280</p>		<p>SHEET 31 OF 68 DWG D-26 DATE AUGUST 2005 SCALE H:500 V:100</p>
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**NIPPON KOEI CO., LTD.**

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY



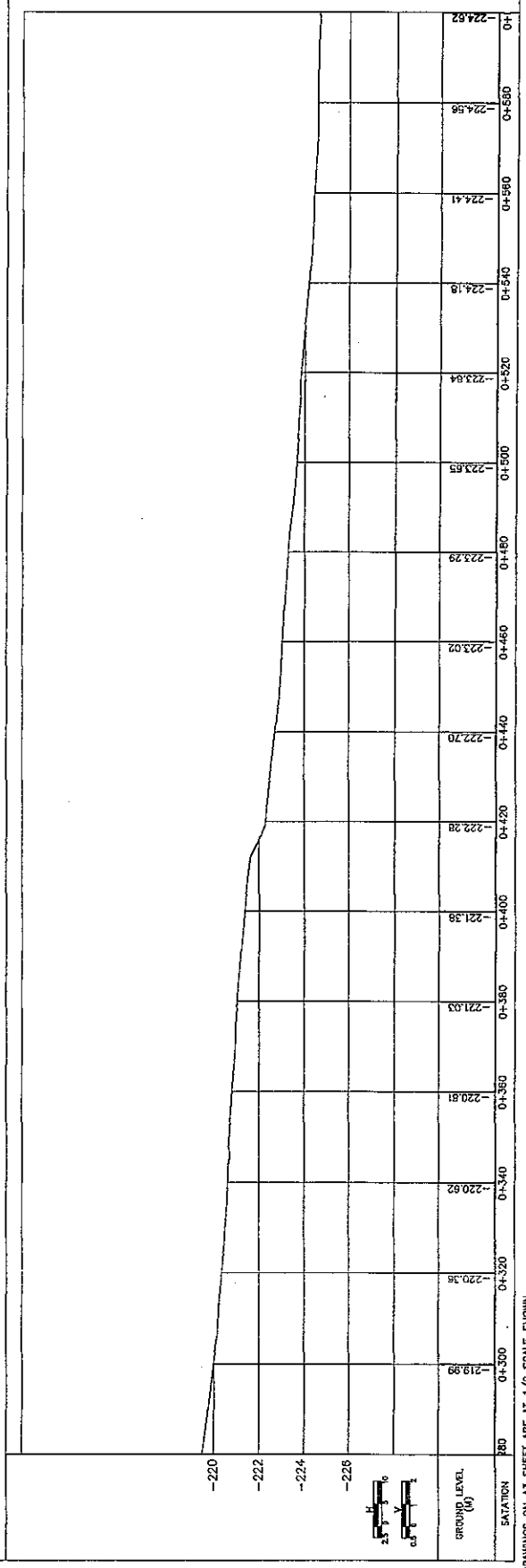
SHEET 32 OF 88  
 DWG D-29  
 DATE AUGUST, 2008  
 SCALE 1:1500 V:1100

CONVEYANCE LINE NO.8  
 PLAN & PROFILE  
 FROM STA 0+280 TO 0+600



**NIPPON KOEI CO., LTD.**

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY

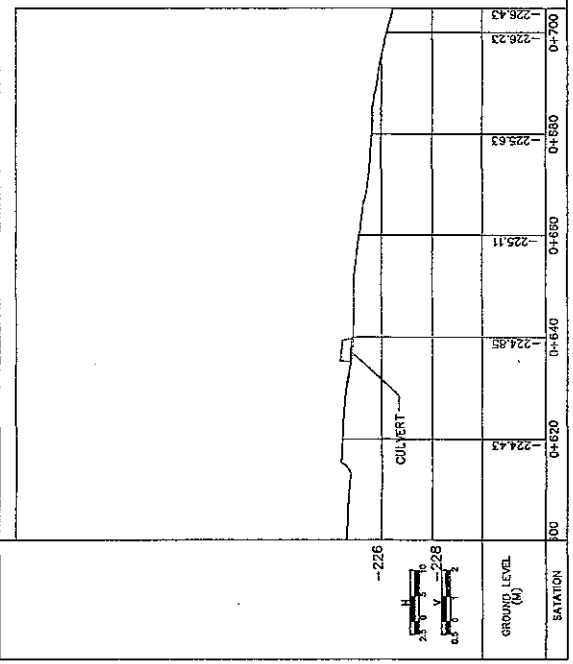
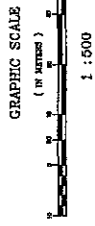
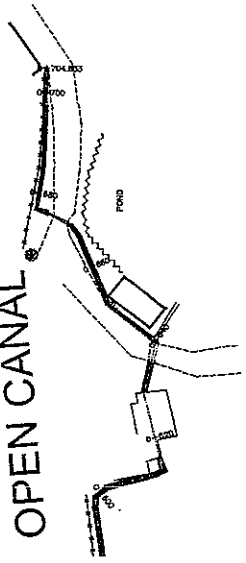


STATION	GROUND LEVEL (M)	CONVEYANCE LINE (M)
0+300	-219.99	-220.56
0+320	-220.35	-220.92
0+340	-220.62	-221.19
0+360	-220.81	-221.38
0+380	-221.03	-221.57
0+400	-221.38	-221.92
0+420	-222.28	-222.82
0+440	-222.70	-223.24
0+460	-223.02	-223.56
0+480	-223.79	-224.33
0+500	-223.65	-224.19
0+520	-223.84	-224.41
0+540	-224.18	-224.56
0+560	-224.41	-224.52
0+580	-224.56	-224.52
0+600	-224.52	-224.52

1 2 3 4 5 6

A B C D

# OPEN CANAL



\*DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN

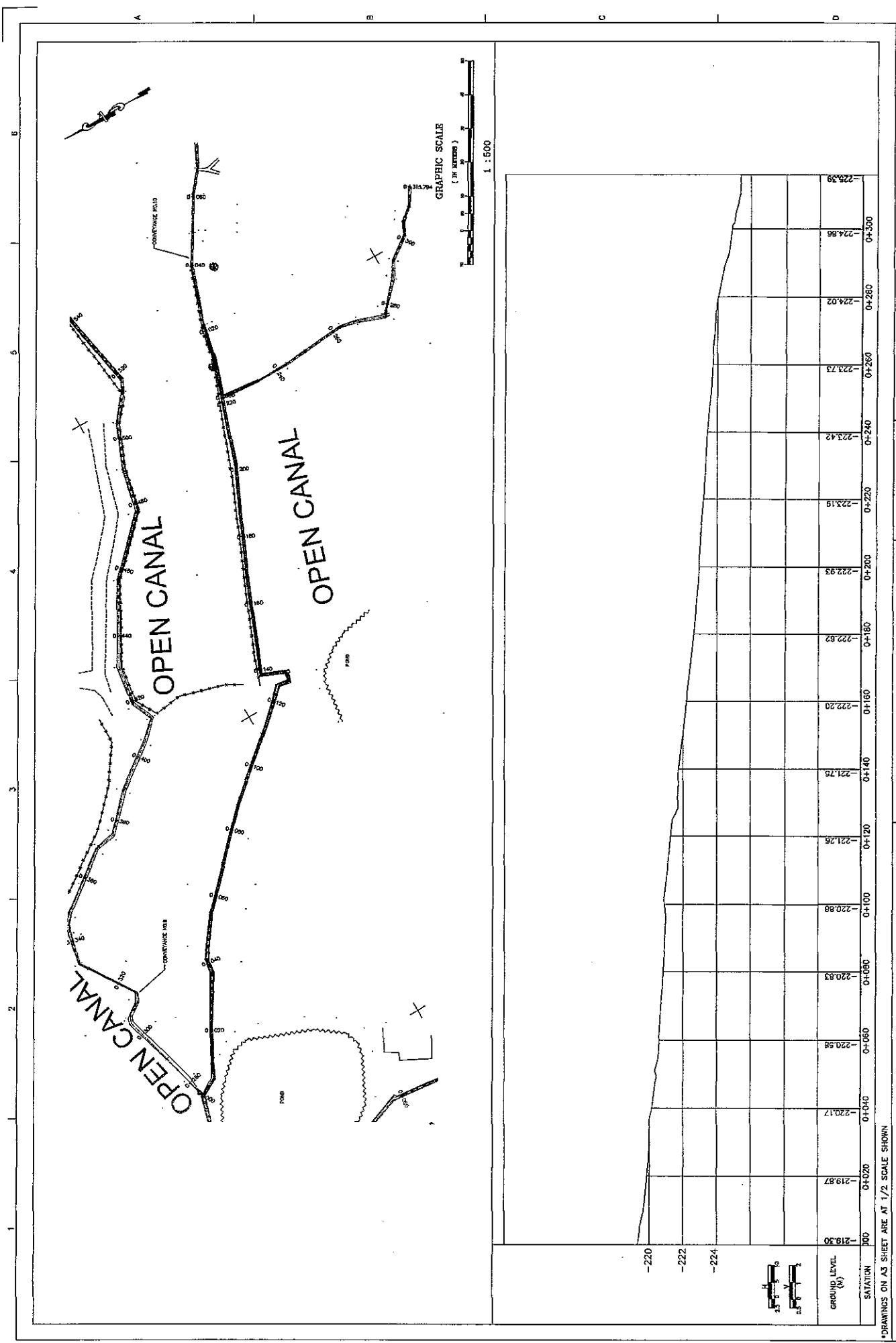
THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY

**NIPPON KOEI CO., LTD.**



CONVEYANCE LINE NO.8  
PLAN & PROFILE  
FROM STA 0+600 TO 0+704.83 (END)

SHEET 33 OF 68  
DWG. P-30  
DATE AUGUST, 2008  
SCALE: H1:500 V1:100



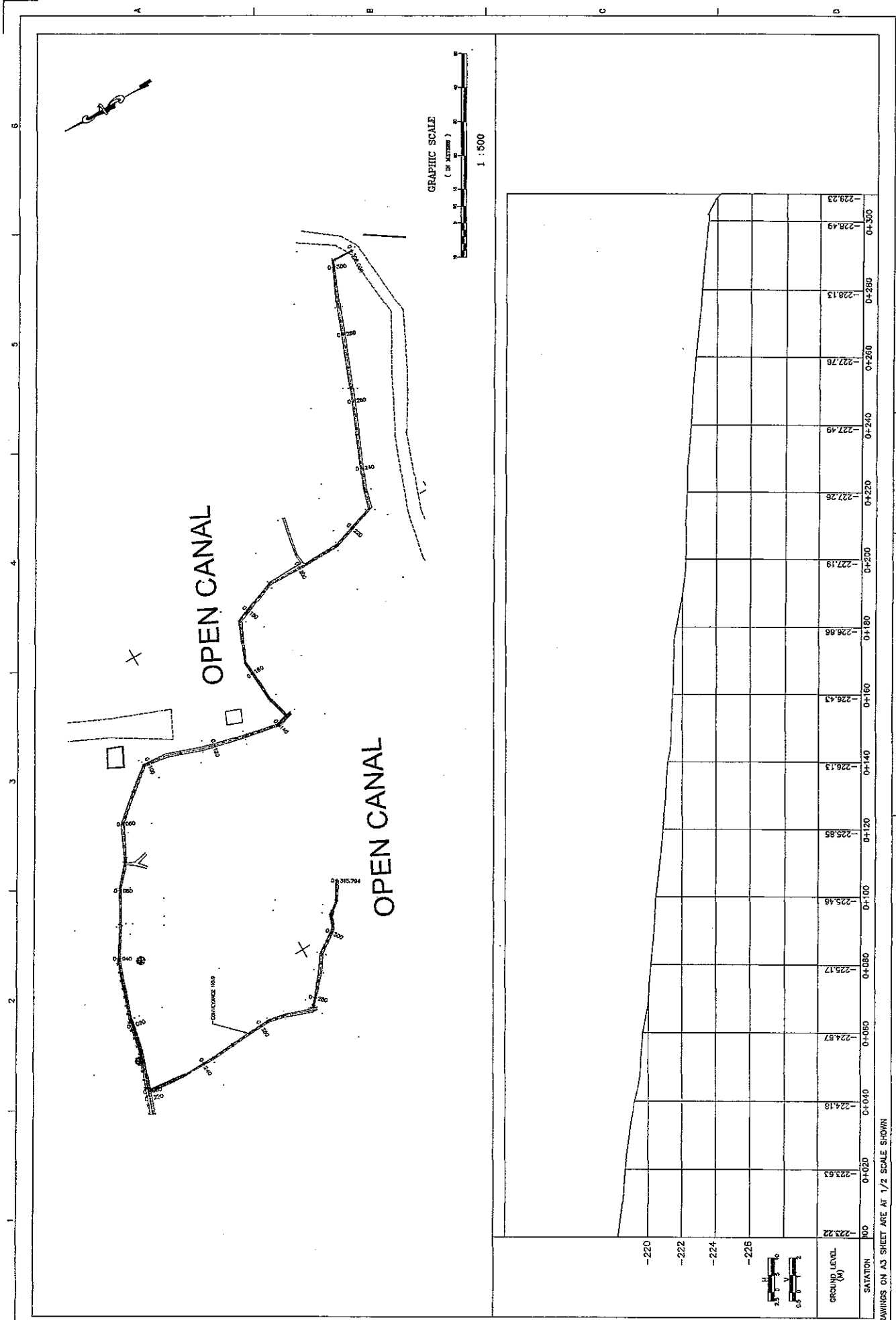
SHEET 34 OF 68  
 DWG. P-31  
 DATE AUGUST, 2008  
 SCALE 1:1000 VTI:100

CONFIFANCE LINE NO.9  
 PLAN & PROFILE  
 FROM STA 0+000 TO 0+315.79 (END)



**NIPPON KOEI CO., LTD.**

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY



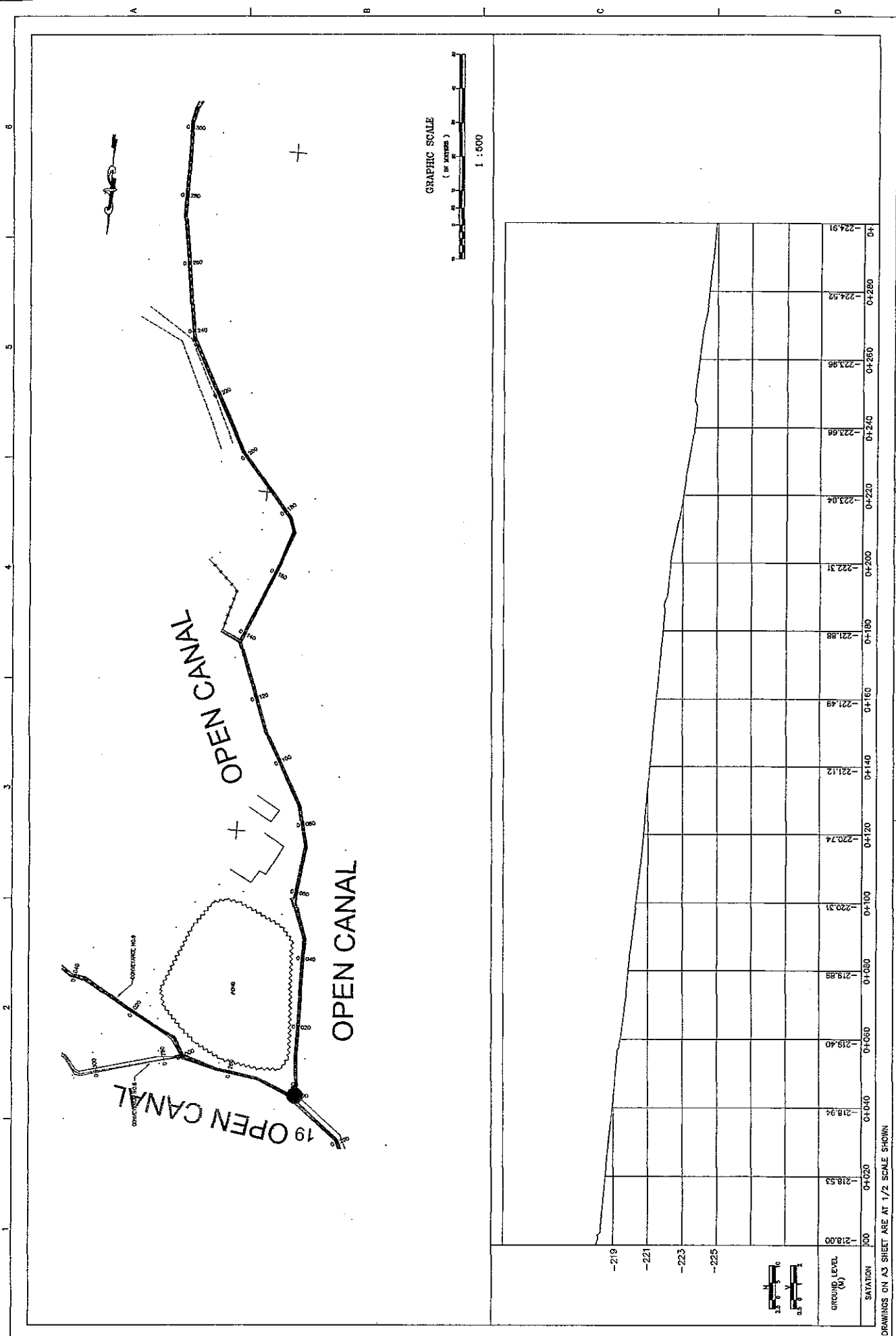
SHEET 35 OF 68  
 DWS D-32  
 DATE AUGUST, 2008  
 SCALE: H1500 V1100

CONFERENCE LINE NO.10  
 PLAN & PROFILE  
 FROM STA 0+000 TO 0+308.09 (END)

**JICA**

**NIPPON KOEI CO., LTD.**

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY



STATION	GROUND LEVEL (M)
0+000	-218.00
0+020	-218.53
0+040	-218.94
0+060	-219.40
0+080	-219.88
0+100	-220.31
0+120	-220.74
0+140	-221.12
0+160	-221.49
0+180	-221.88
0+200	-222.31
0+220	-222.84
0+240	-223.68
0+260	-223.96
0+280	-224.91

**THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY**

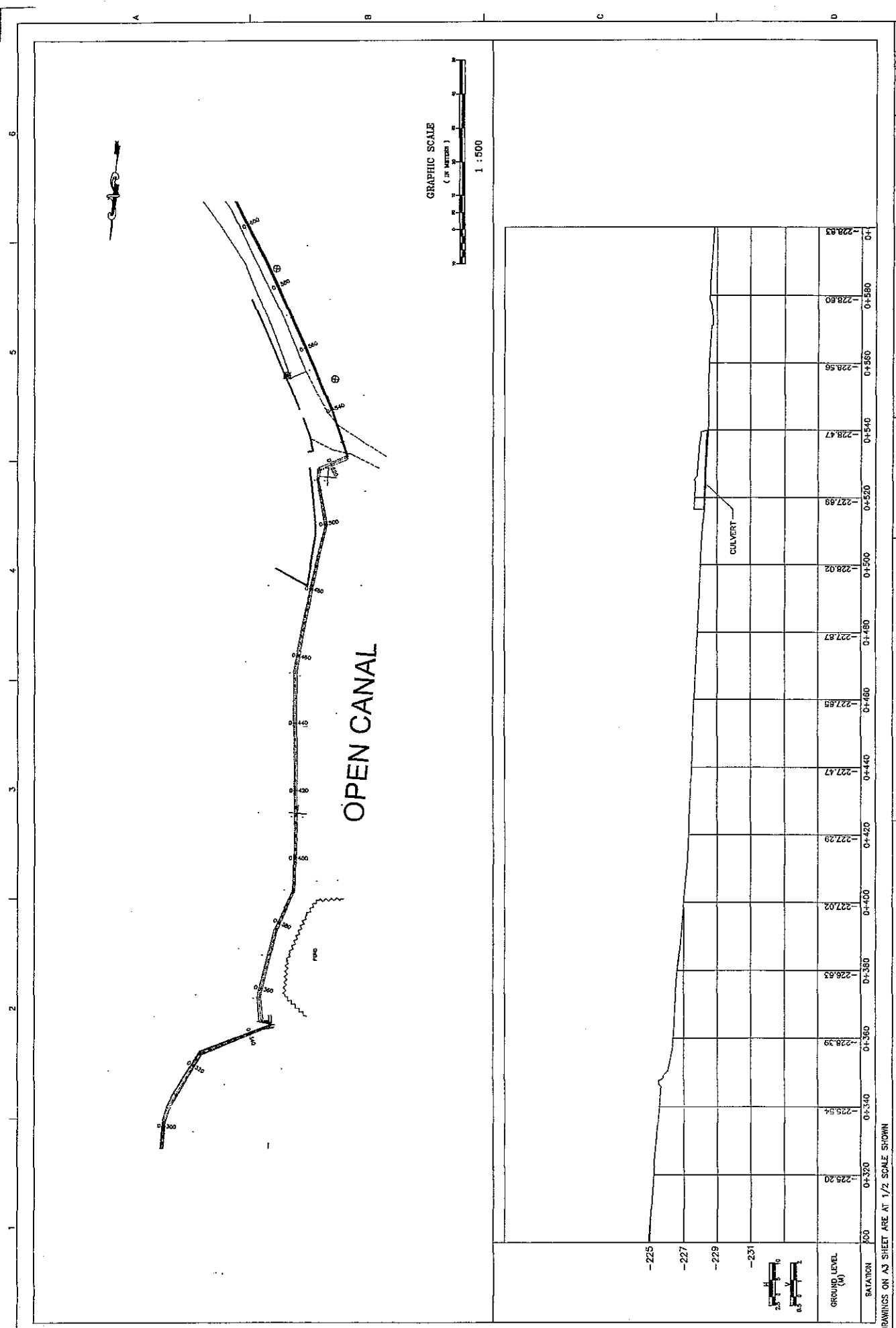
**NIPPON KOEI CO., LTD.**

**jica**

CONFERENCE LINE NO.11  
 PLAN & PROFILE  
 FROM STA 0+000 TO 0+300

SHEET 36 OF 68  
 DWG D-33  
 DATE AUGUST, 2003  
 SCALE: H1:500 V1:100





1 2 3 4 5 6

SHEET 37 OF 68  
DWG D-34  
DATE AUGUST, 2008  
SCALE H1500 V1100

CONFERENCE LINE NO.11  
PLAN & PROFILE  
FROM STA 0+300 TO 0+600

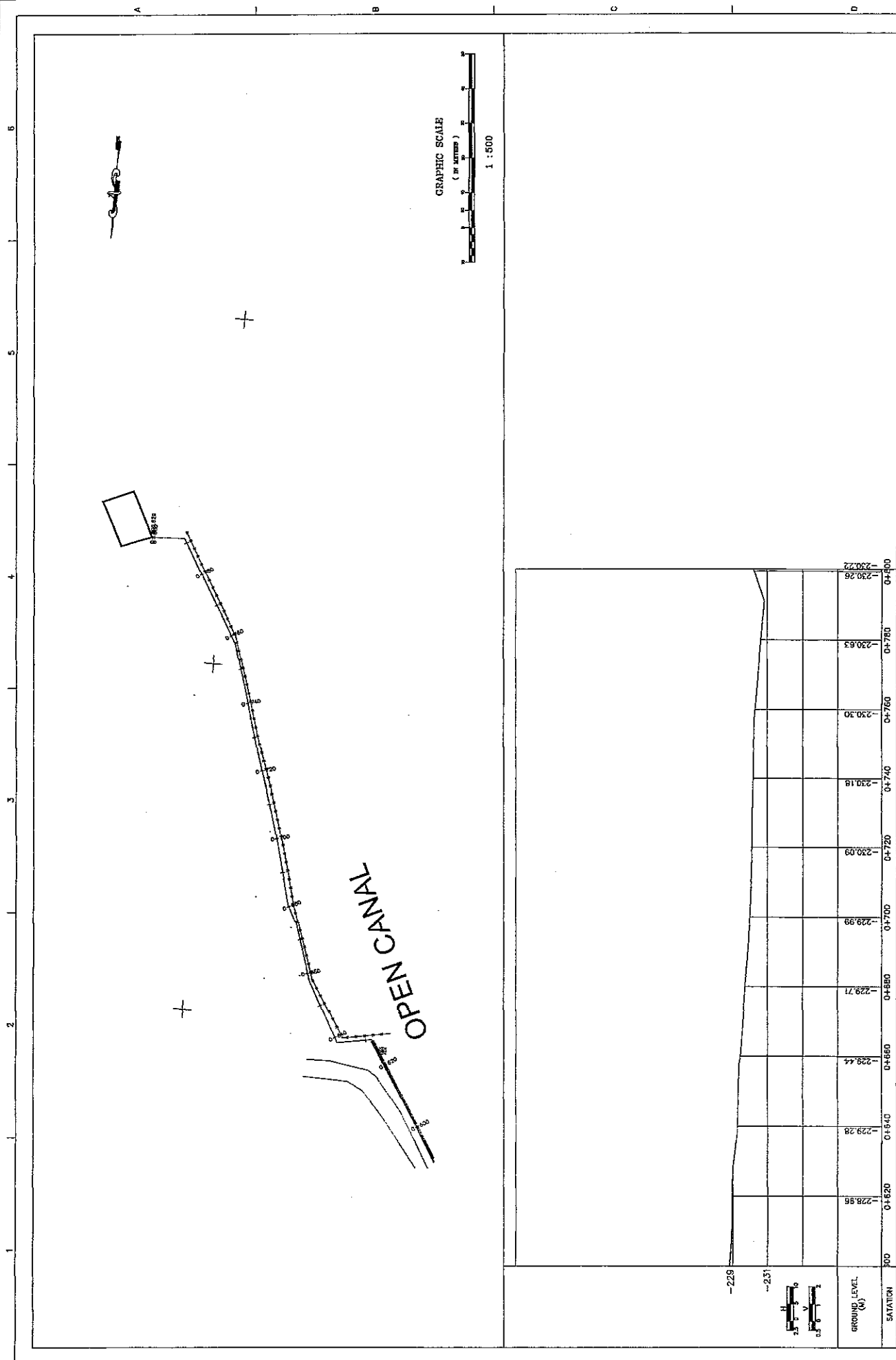


NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY

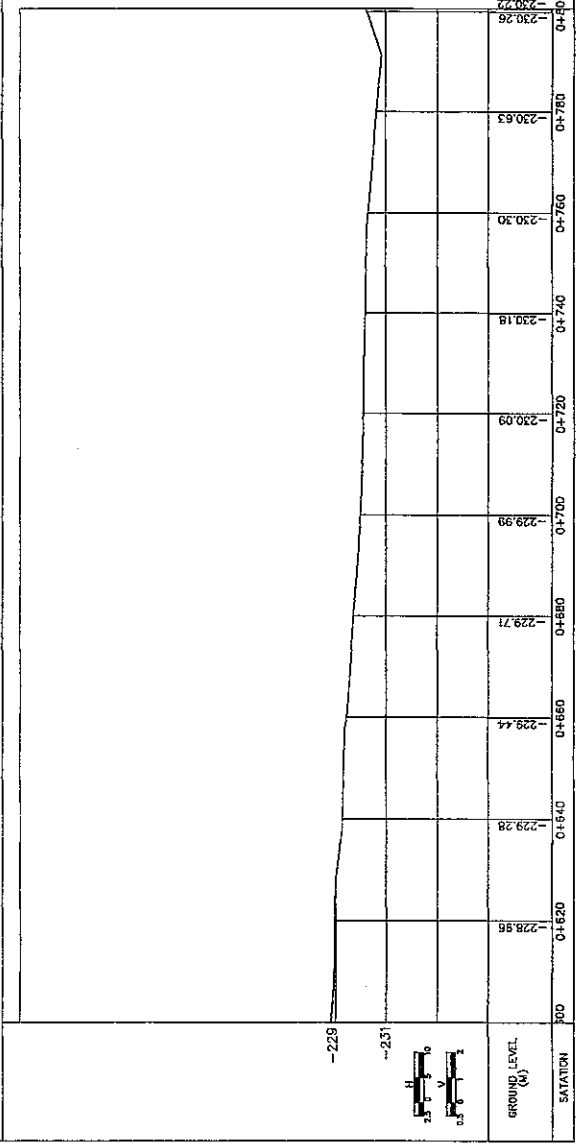
\*DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN

BATAYON	00	0+320	0+340	0+360	0+380	0+400	0+420	0+440	0+460	0+480	0+500	0+520	0+540	0+560	0+580	0+
GROUND LEVEL (M)	-225.20	-225.94	-228.39	-226.53	-227.02	-227.29	-227.47	-227.59	-227.87	-228.02	-227.89	-228.47	-228.56	-228.80	-228.83	



GRAPHIC SCALE  
( IN METERS )  
1 : 500

OPEN CANAL



SATATION 600 0+620 0+640 0+660 0+680 0+700 0+720 0+740 0+760 0+780 0+800

GROUND LEVEL (M)

\*DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN

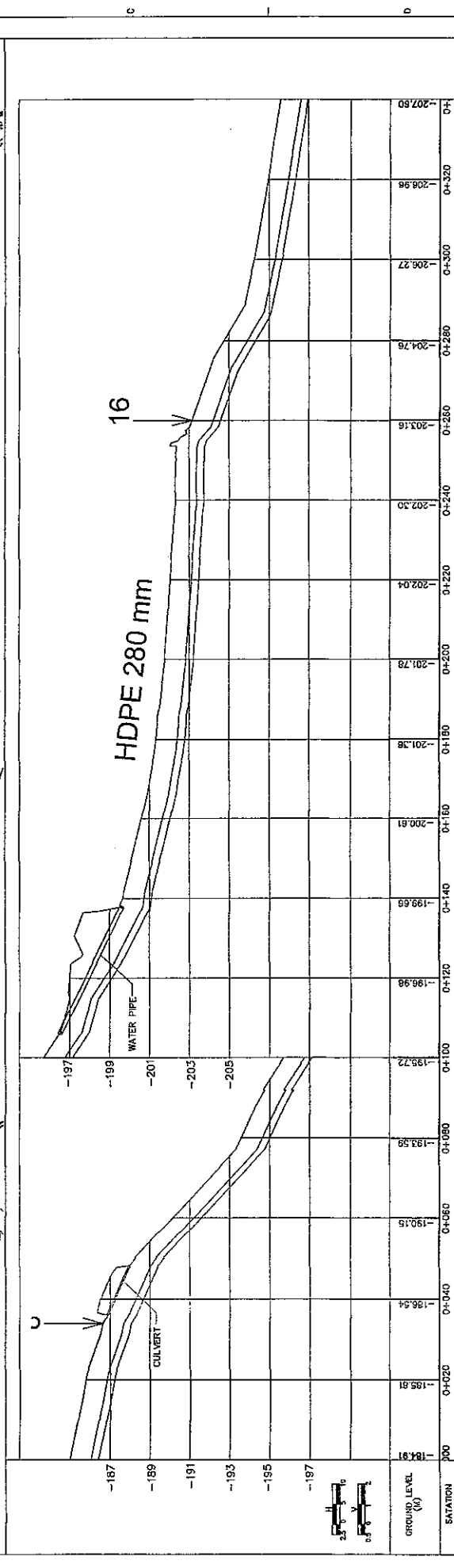
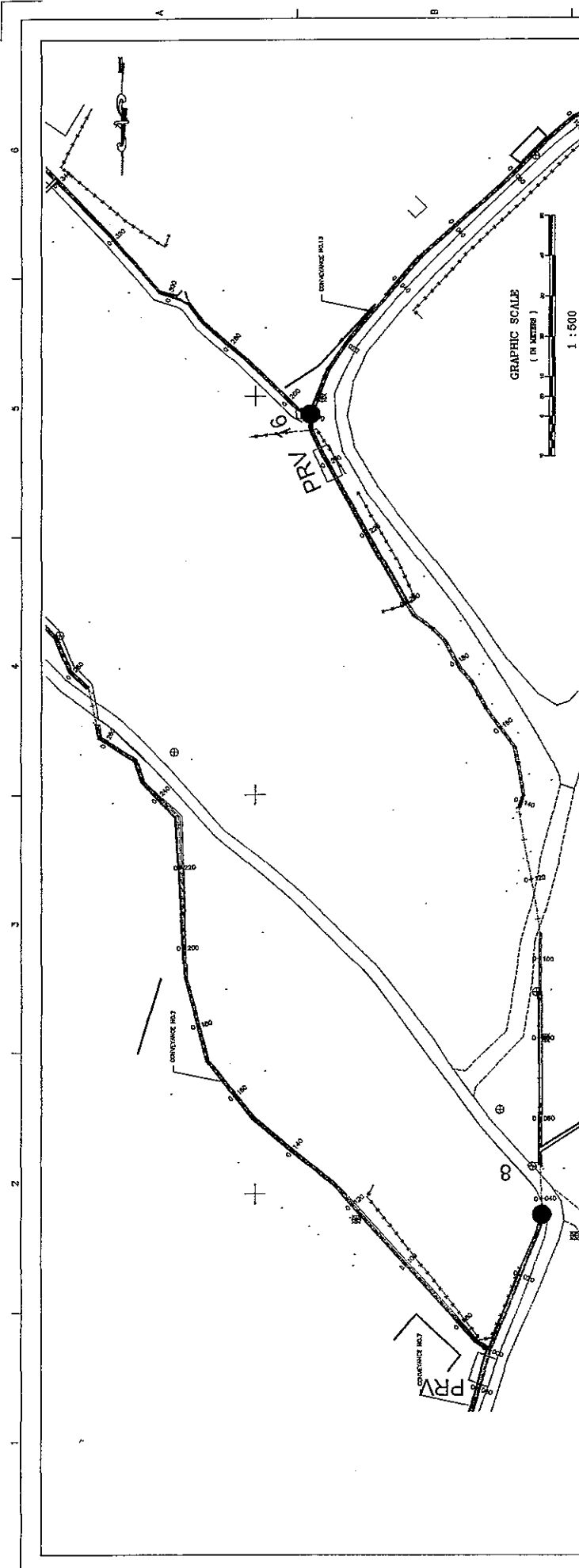
THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY

NIPPON KOEI CO., LTD.



CONFERENCE LINE NO.11  
PLAN & PROFILE  
FROM STA 0+600 TO 0+800.63 (END)

SHEET 38 OF 88  
DWG D-35  
DATE AUGUST, 2008  
SCALE H1500 V1100



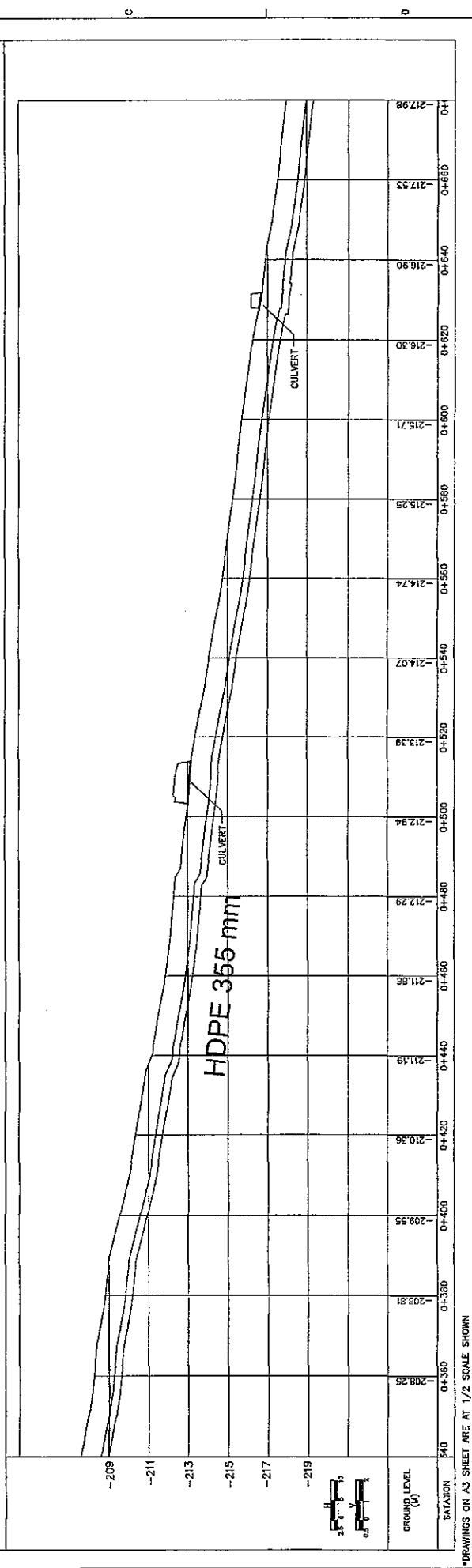
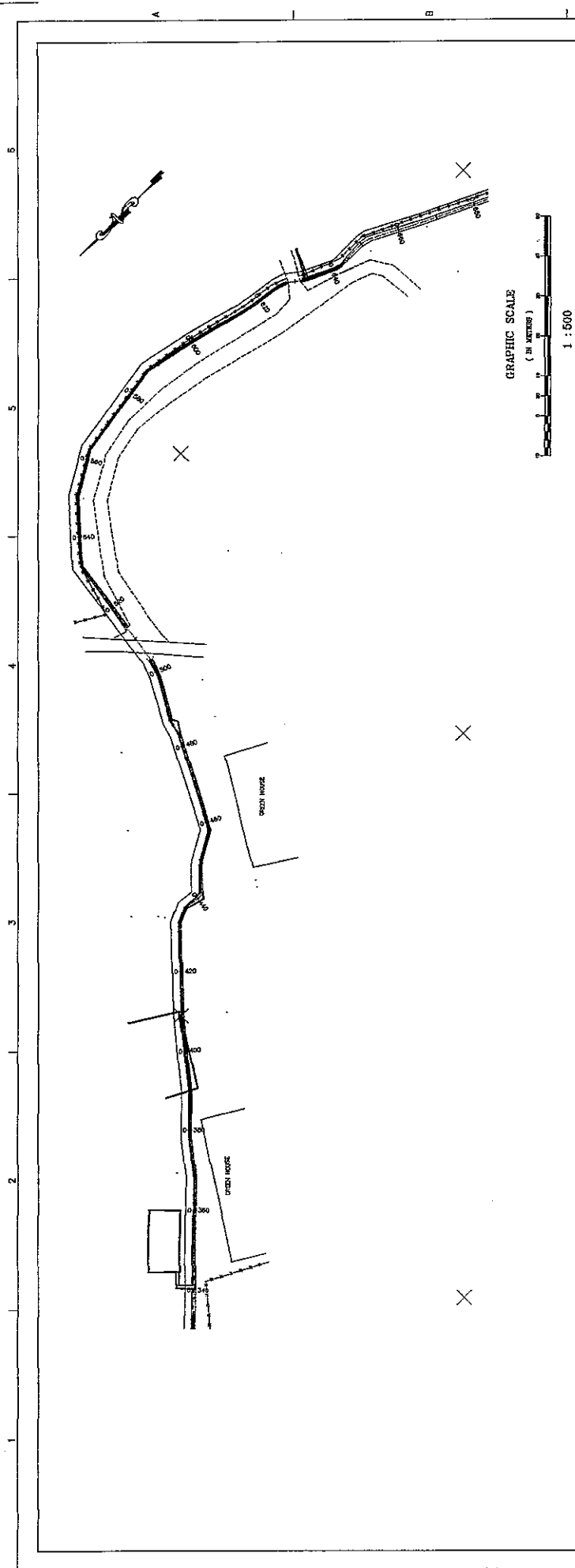
DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY

**JICA**

CONFERENCE LINE NO.12  
PLAN & PROFILE  
FROM STA 0+000 TO 0+340

SHEET 39 OF 68  
DWG D-38  
DATE AUGUST 2008  
SCALE 1:500 V:100



SHEET 40 OF 68  
DWG. D-37  
DATE: AUGUST, 2008  
SCALE: 1:1500 VERTICAL

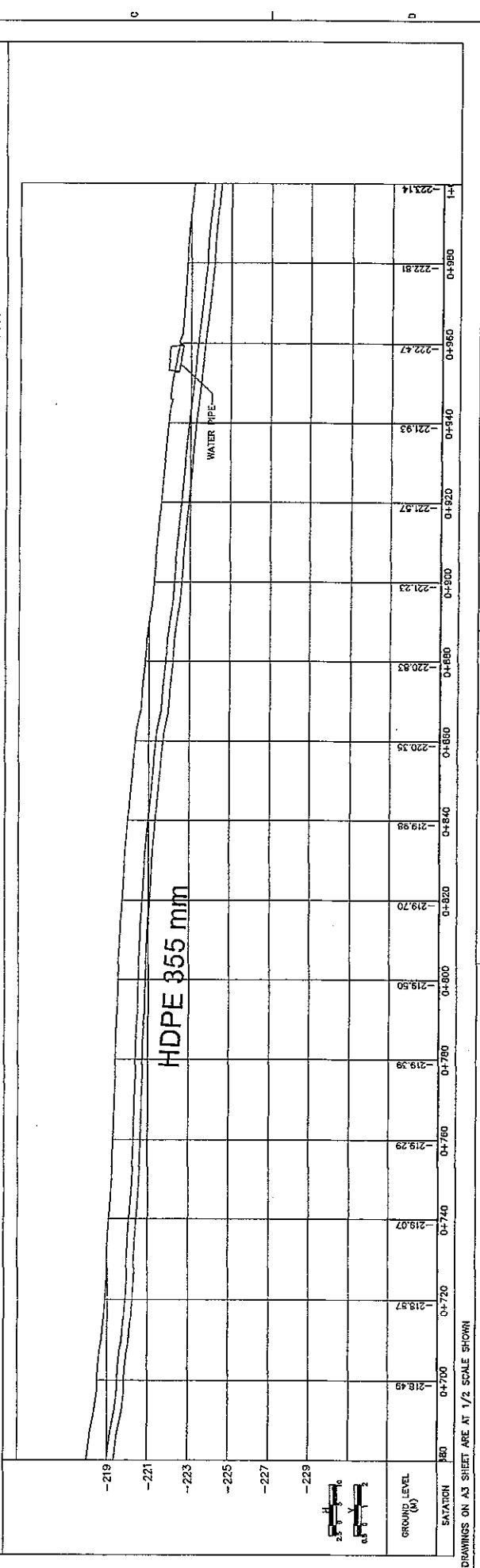
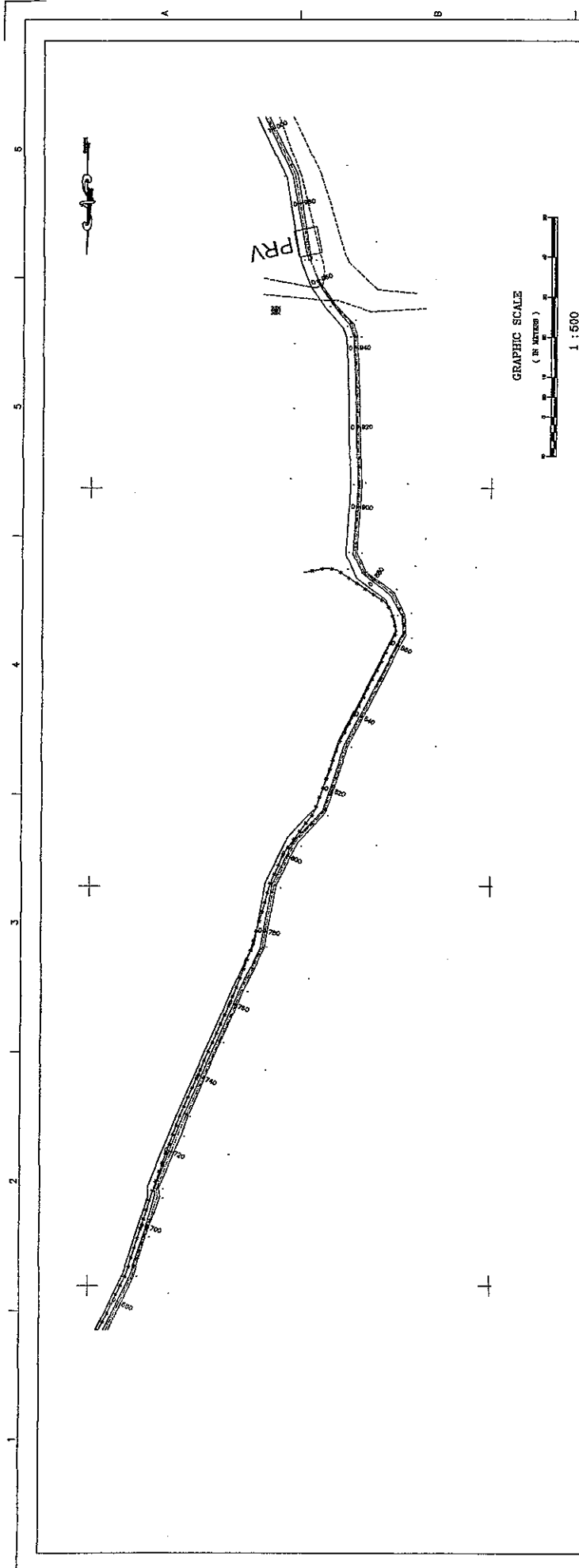
**JICA**

**NIPPON KOEI CO., LTD.**

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY

CONVEYANCE LINE NO.12  
PLAN & PROFILE  
FROM STA 0+340 TO 0+680

DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN

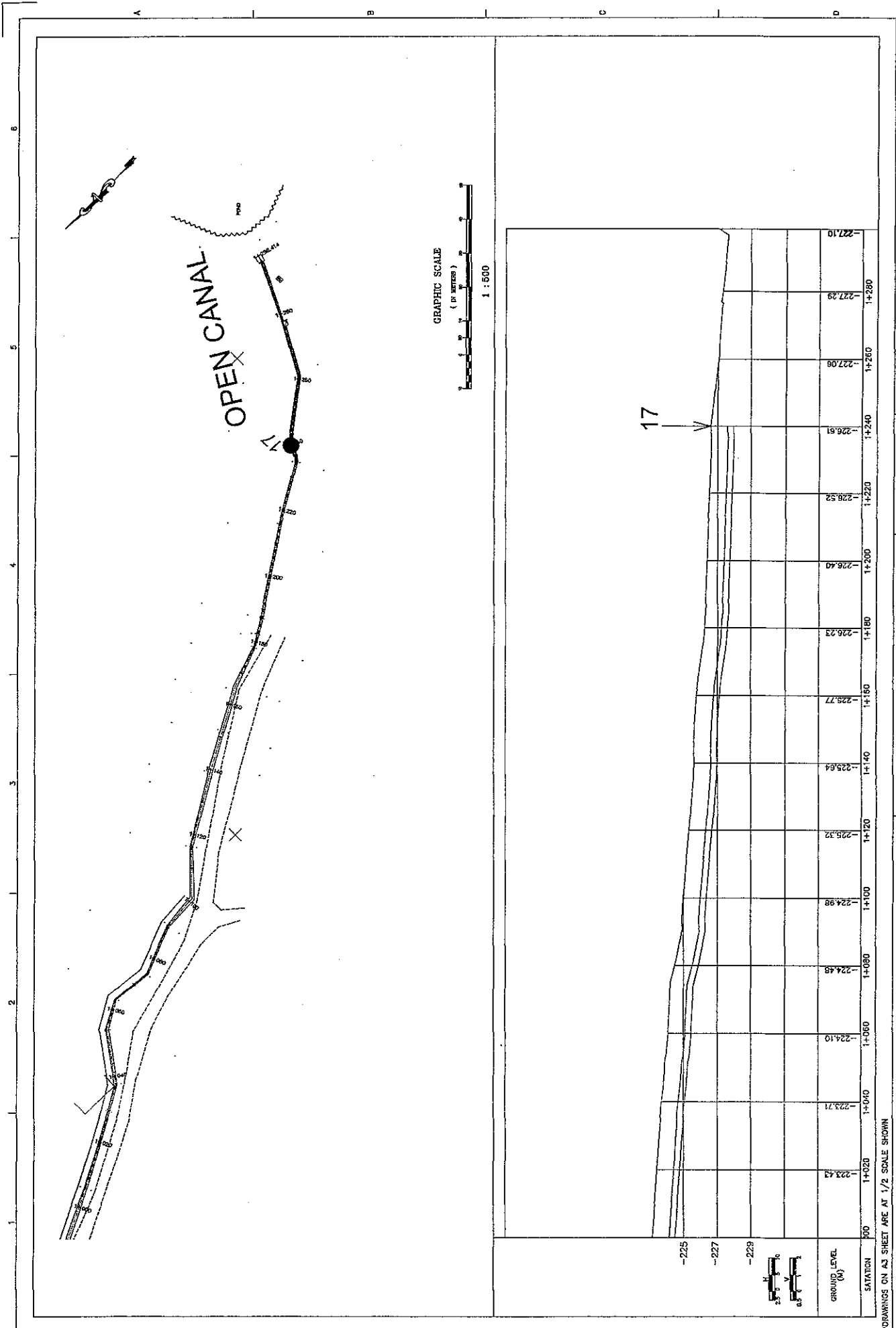


**NIPPON KOEI CO., LTD.**

**THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY**

**CONFERENCE LINE NO.12  
PLAN & PROFILE  
FROM STA 0+660 TO 1+000**

SHEET 41 OF 68  
DWG D-38  
DATE AUGUST, 2008  
SCALE: H1500 V1100



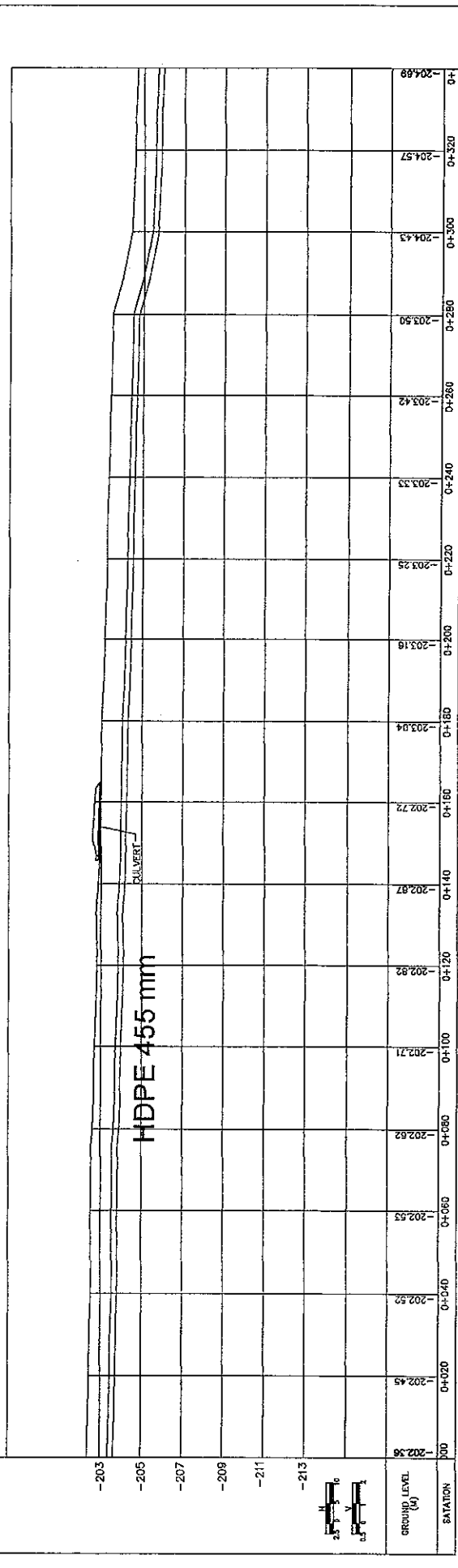
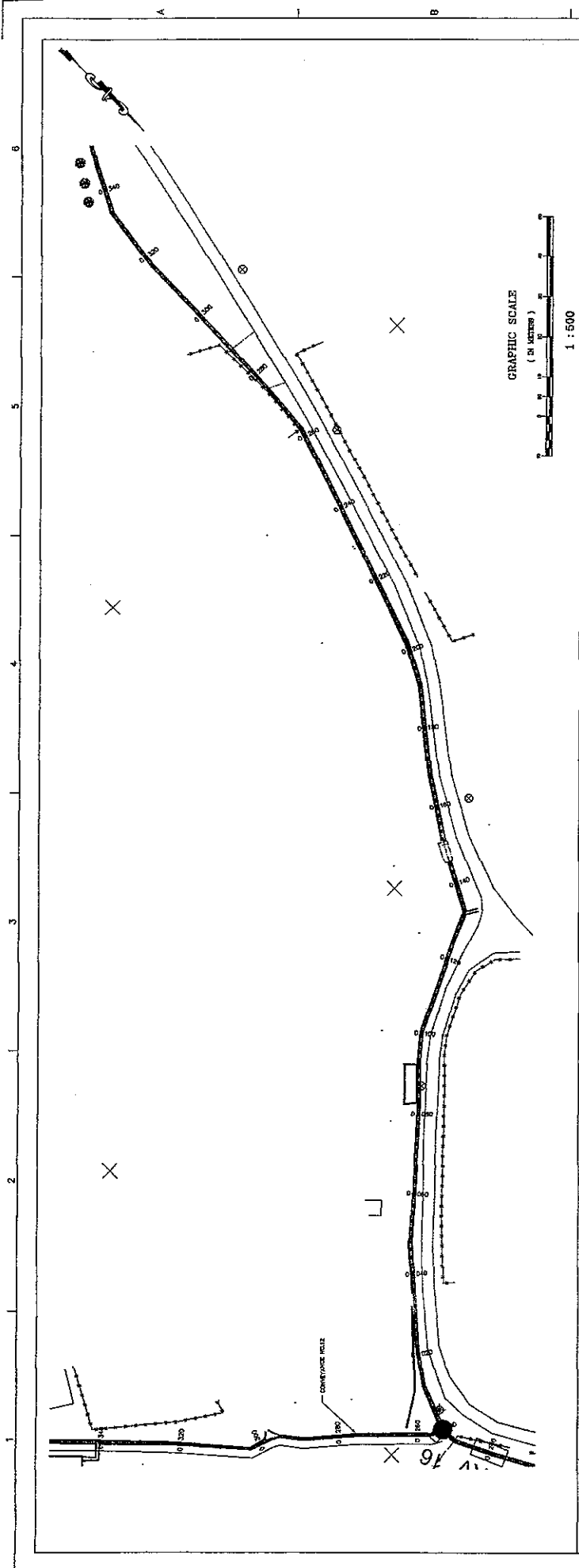
SHEET 42 OF 68  
 DWG D-39  
 DATE AUGUST, 2008  
 SCALE: H1:500 V1:100

CONFERENCE LINE NO.12  
 PLAN & PROFILE  
 FROM STA 1+000 TO STA 1+288.41 (END)



**NIPPON KOEI CO., LTD.**

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY



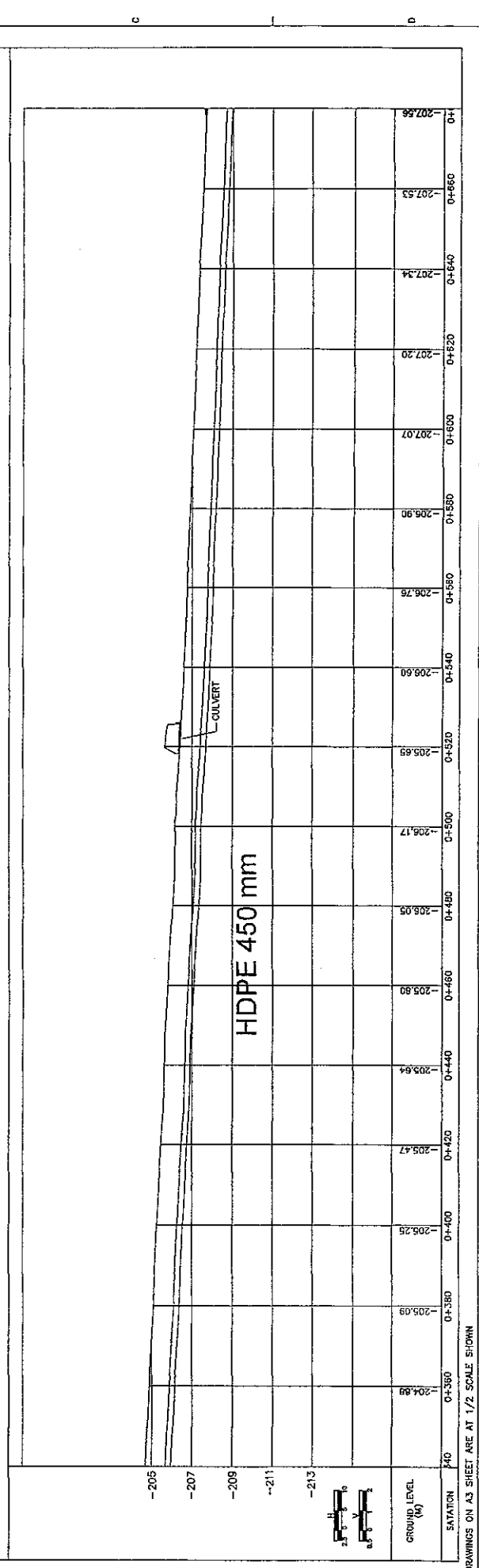
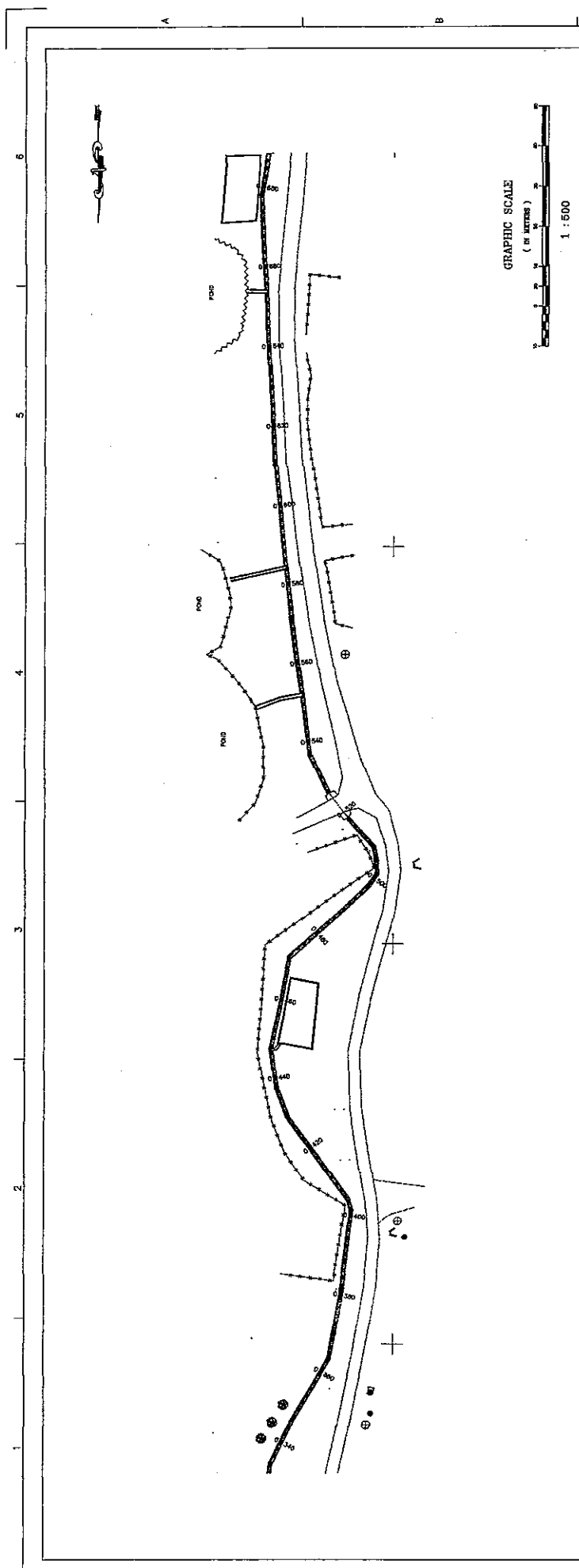
DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN

STATION	0+000	0+040	0+080	0+120	0+160	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340					
GROUND LEVEL (M)	-202.36	-202.45	-202.52	-202.53	-202.62	-202.71	-202.82	-202.87	-202.72	-203.04	-203.19	-203.26	-203.33	-203.42	-203.50	-204.43	-204.57	-204.89

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY

CONVEYANCE LINE NO.13  
PLAN & PROFILE  
FROM STA 0+000 TO STA 0+340

SHEET 43 OF 88  
DWG D-49  
DATE AUGUST, 2008  
SCALE: H1:500 V1:100



STATION	GROUND LEVEL (M)
0+340	-204.89
0+350	-205.09
0+400	-205.25
0+420	-205.47
0+440	-205.64
0+460	-205.80
0+480	-205.95
0+500	-206.17
0+520	-206.89
0+540	-206.60
0+560	-206.76
0+580	-206.90
0+600	-207.07
0+620	-207.20
0+640	-207.34
0+660	-207.53
0+680	-207.56

DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY

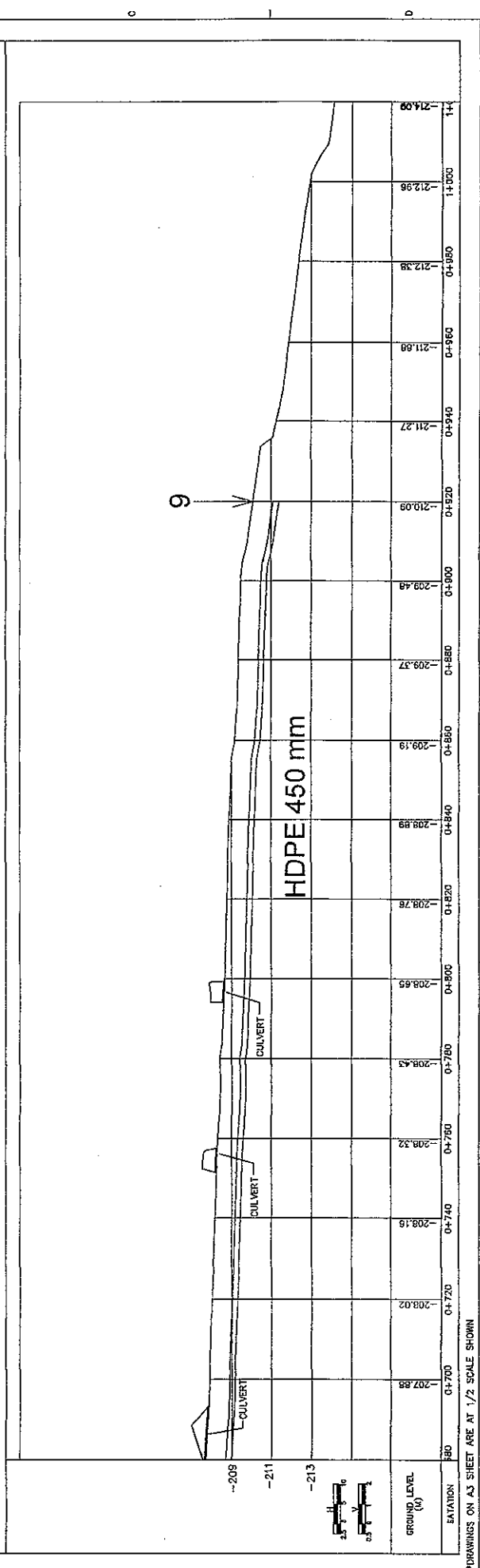
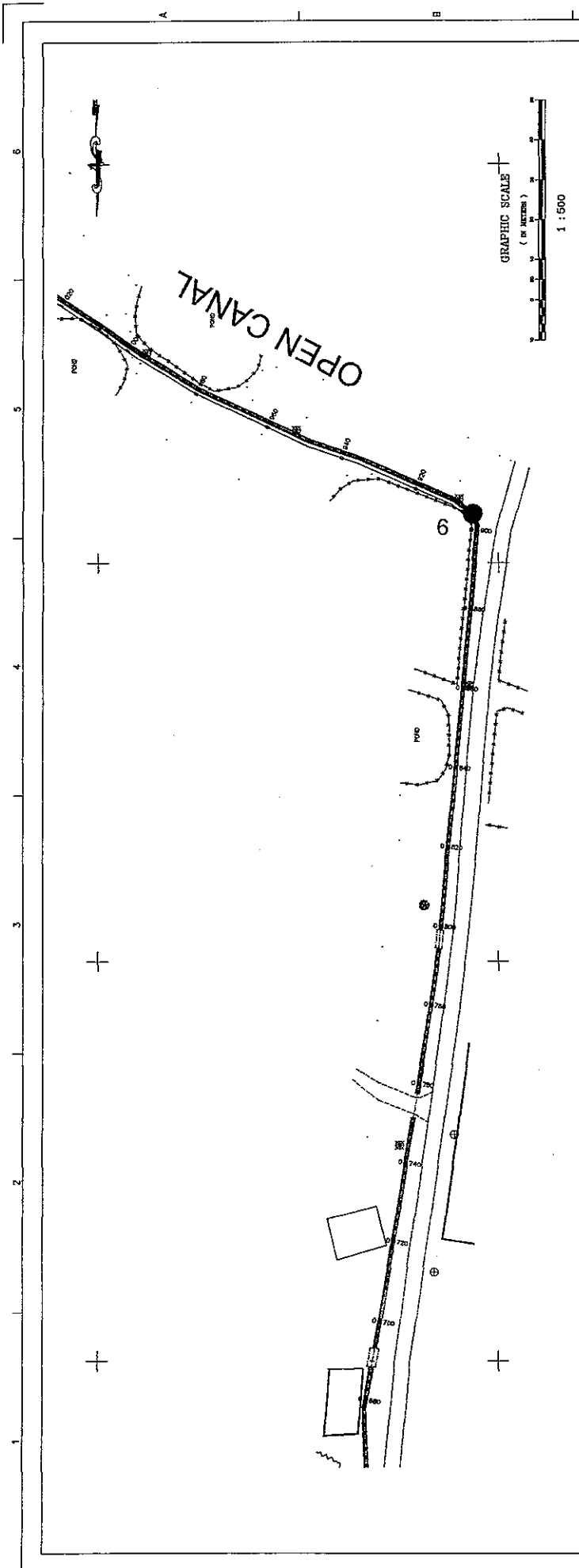
**NIPPON KOEI CO., LTD.**

**JICA**

CONFERENCE LINE NO.13  
PLAN & PROFILE  
FROM STA 0+340 TO STA 0+680

SHEET 44 OF 85  
DWG D-41  
DATE AUGUST, 2008  
SCALE: H1:500 V1:100





SHEET 45 OF 68  
 DRAWING NO. D-42  
 DATE AUGUST, 2003  
 SCALE: H:1500 V:1100

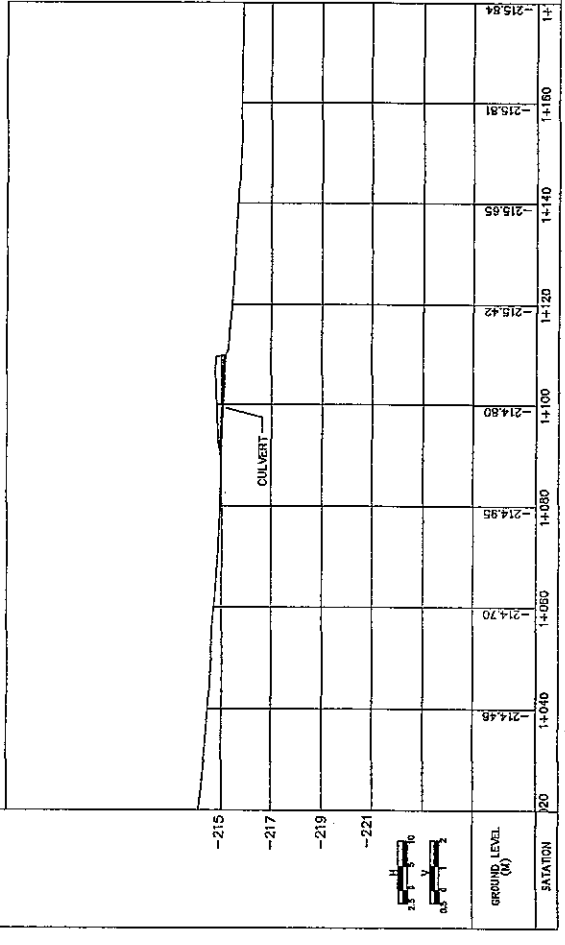
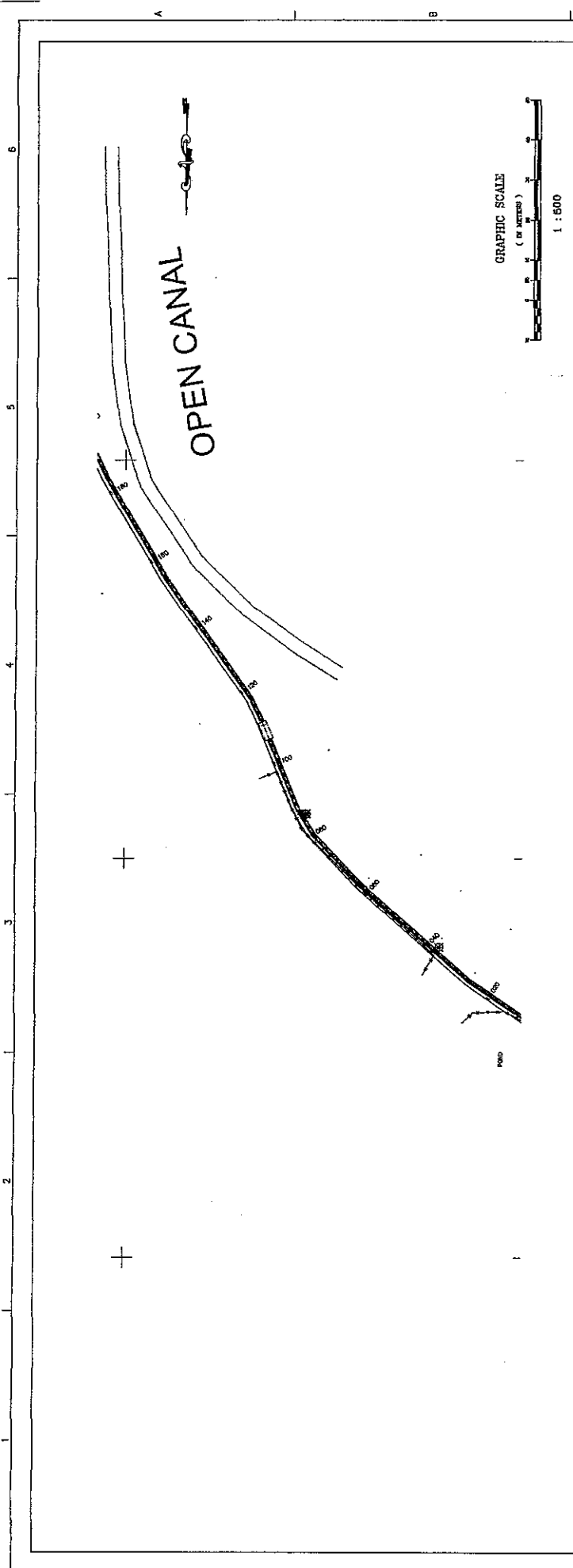
CONFERENCE LINE NO.13  
 PLAN & PROFILE  
 FROM STA 0+680 TO 1+020

**jica**

**NIPPON KOEI CO., LTD.**

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY

\*DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN



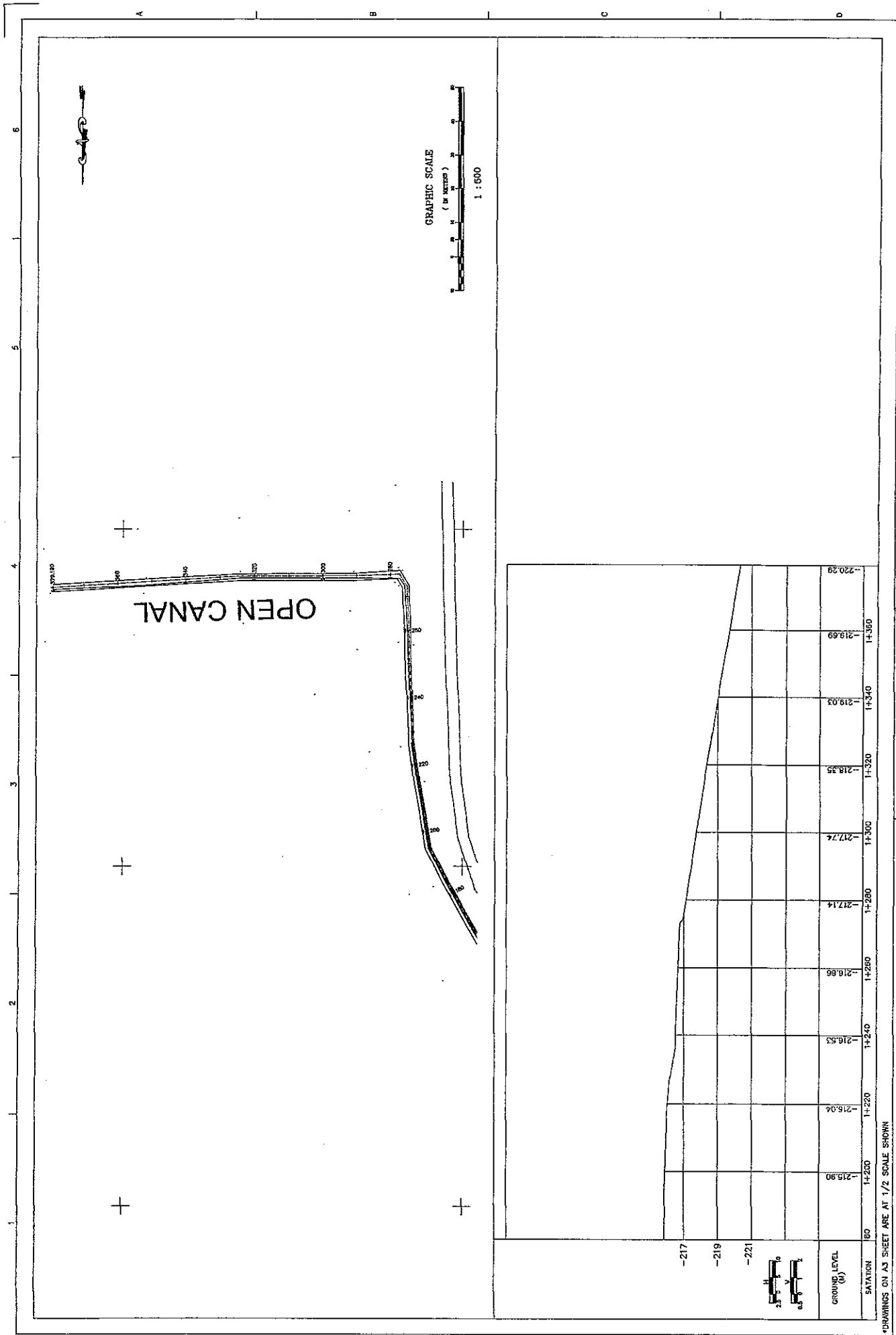
SHEET 45 OF 68  
 DWG D-43  
 DATE AUGUST, 2008  
 SCALE: H1800 V1100

**NIPPON KOEICO, LTD.**

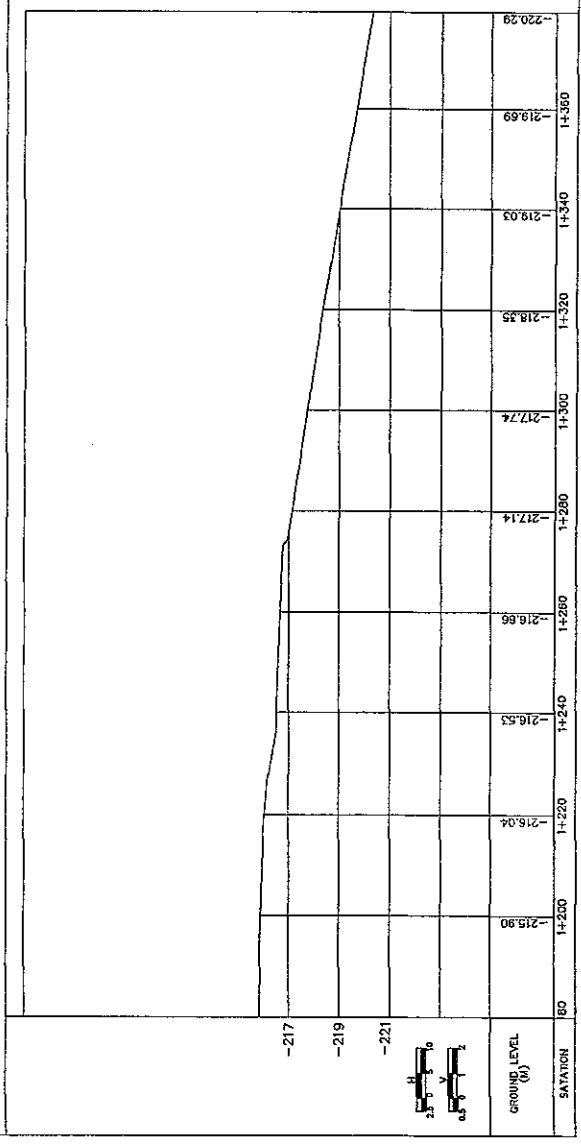
CONVEYANCE LINE NO.13  
 PLAN & PROFILE  
 FROM STA 1+020 TO 1+180

**THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY**

\*DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN



GRAPHIC SCALE  
( IN METERS )  
1 : 600



\*DRAWINGS ON A3 SHEET ARE AT 1/2 SCALE SHOWN

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY

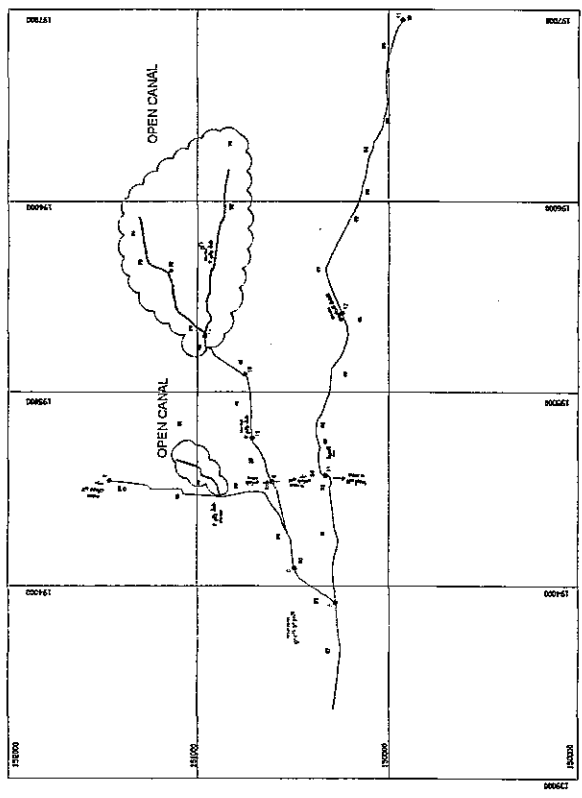
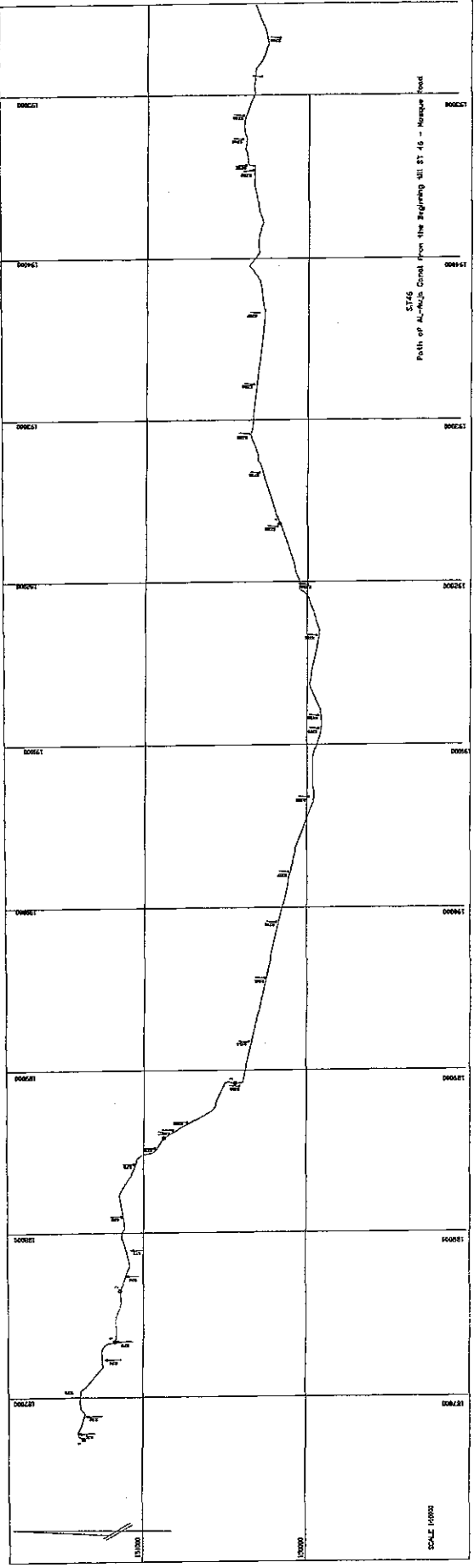
**NIPPON KOEI CO., LTD.**



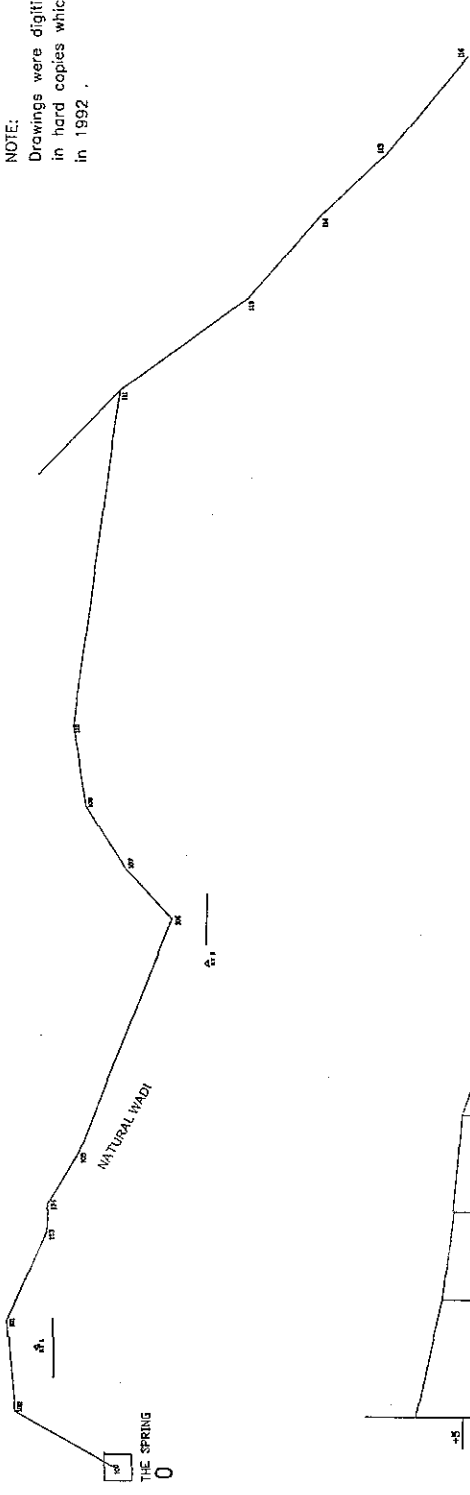
CONFERENCE LINE NO.13  
PLAN & PROFILE  
FROM STA 1+180 TO 1+379.19 (END)

SHEET 47 OF 68  
DWG D-44  
DATE AUGUST, 2008  
SCALE 1:1500 V.1100

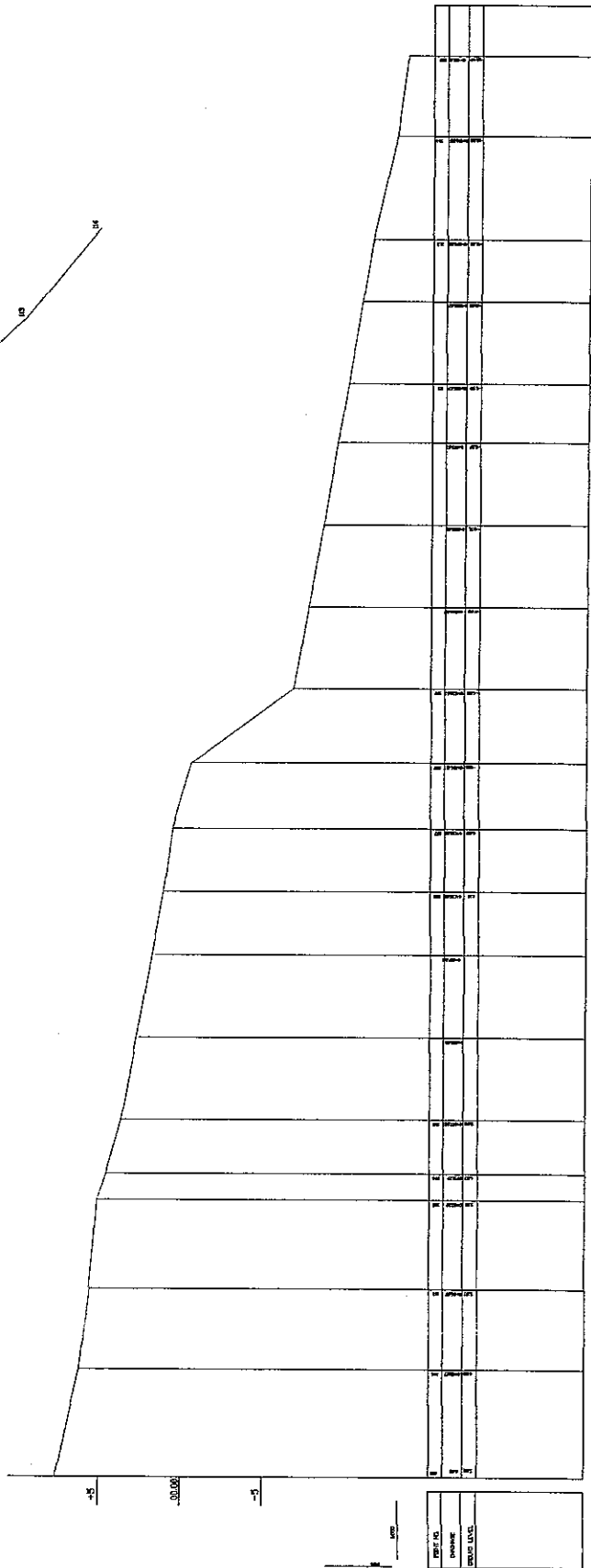
*Plan and Profile of Al Auja Spring Water Conveyance System*



SHEET NUMBER -1



NOTE:  
 Drawings were digitized based on the drawings  
 in hard copies which was prepared by ANERA  
 in 1992 .



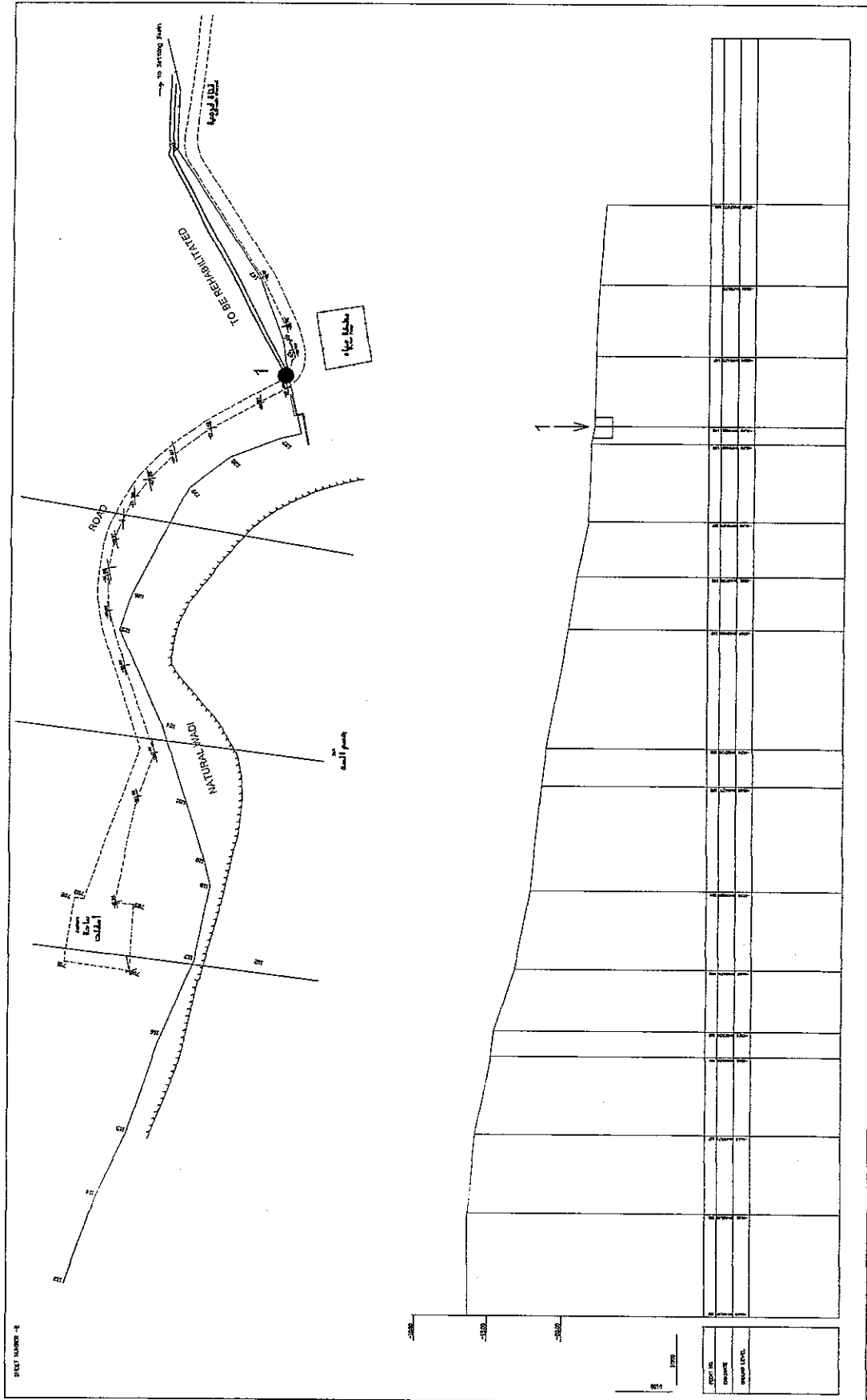
SHEET 1 OF 42  
 DNO SHEET NO. 1  
 DATE AUGUST, 2008  
 SCALE: H:1:500 V:1:100

CONVEYANCE SYSTEM IN ALJIA  
 PLAN & PROFILE



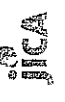
NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY



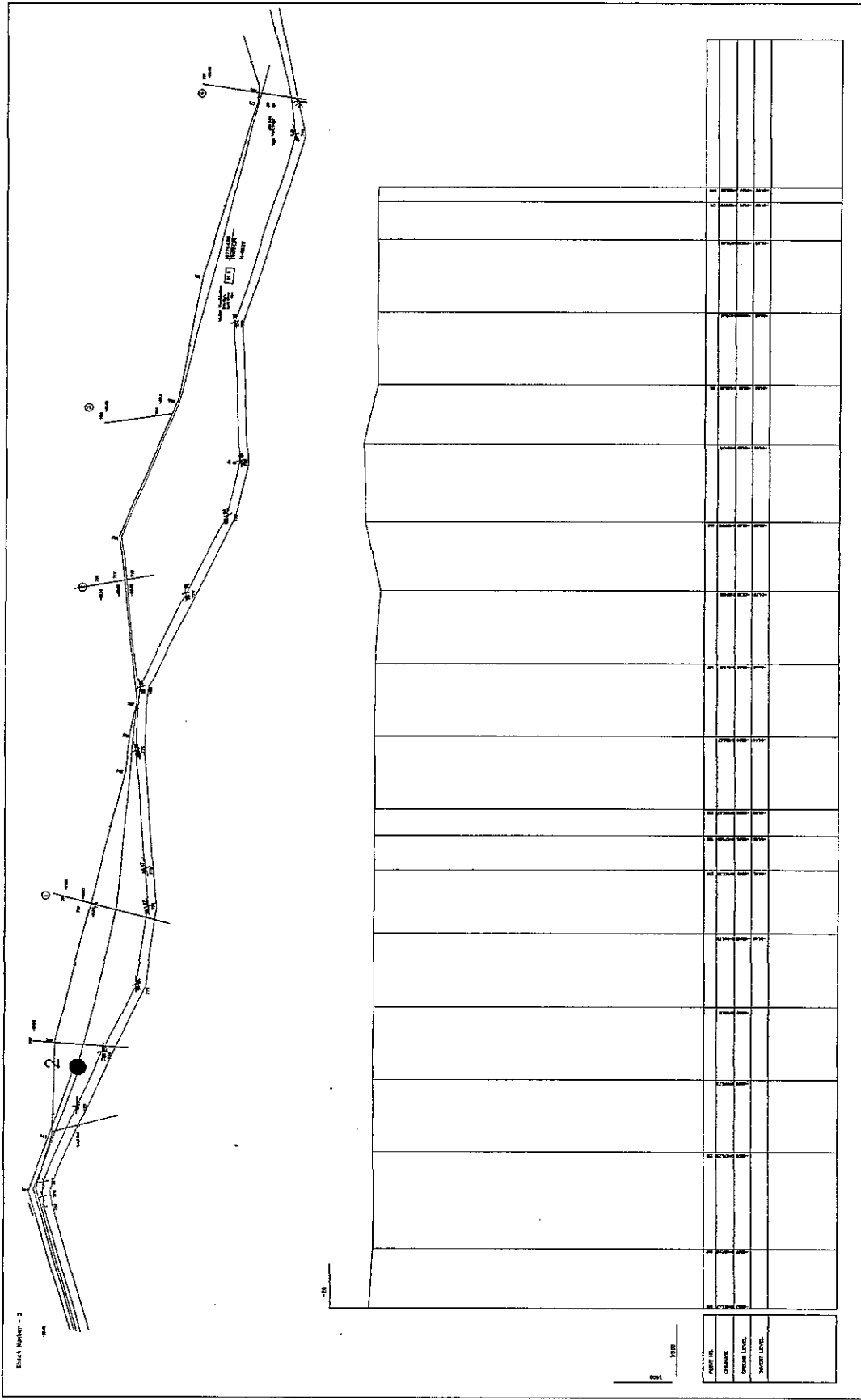
SHEET 2 OF 42  
 DWG SHEET NO. 2  
 DATE AUGUST, 2008  
 SCALE: 1:2500 V:1:100

CONVEYANCE SYSTEM IN AJLUA  
 PLAN & PROFILE



NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY



SHEET 3 OF 42  
 DWG SHEET NO. 3  
 DATE AUGUST, 2005  
 SCALE: 1:1000

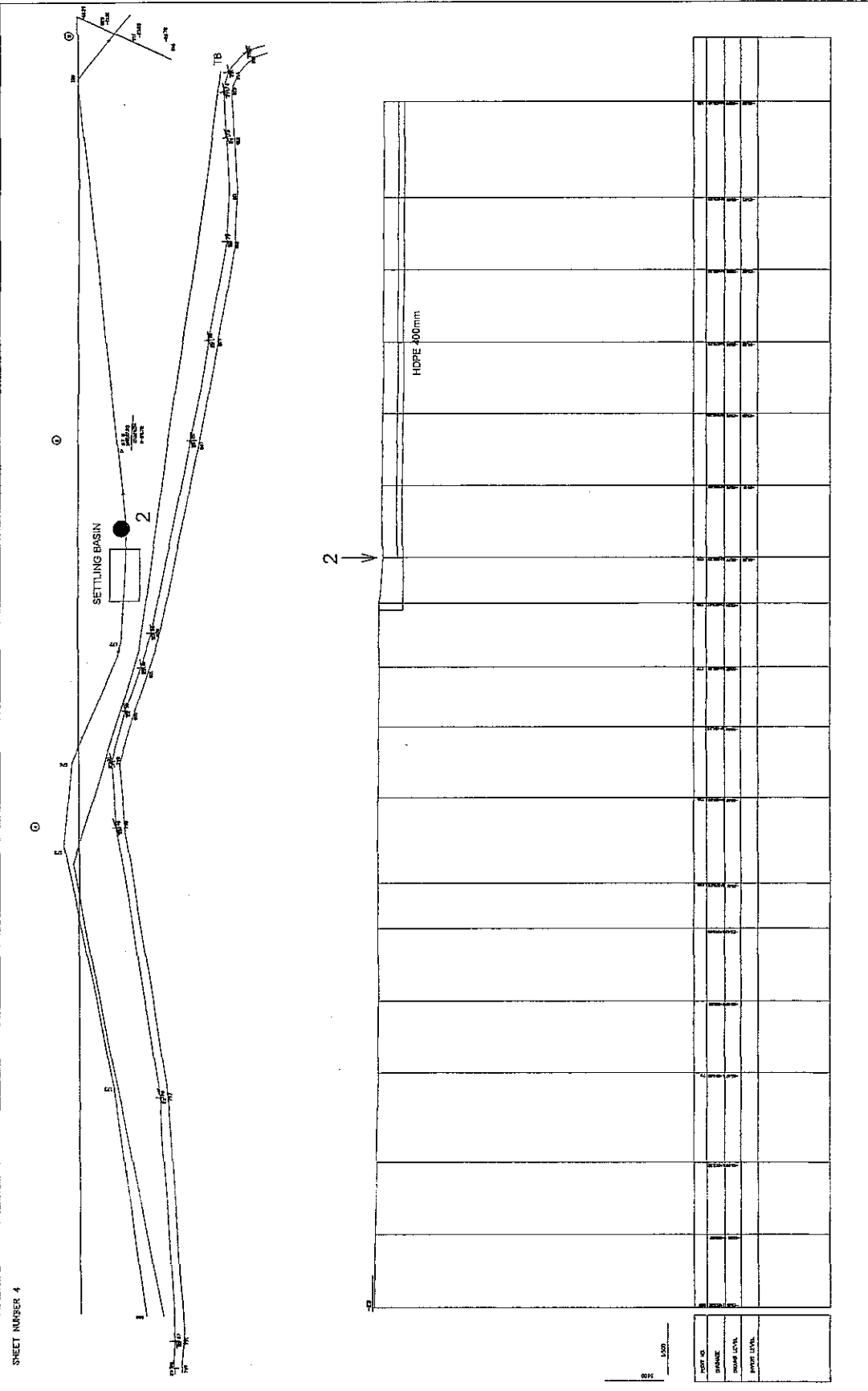
CONVEYANCE SYSTEM IN AJUA  
 PLAN & PROFILE



NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY





SHEET NUMBER 4

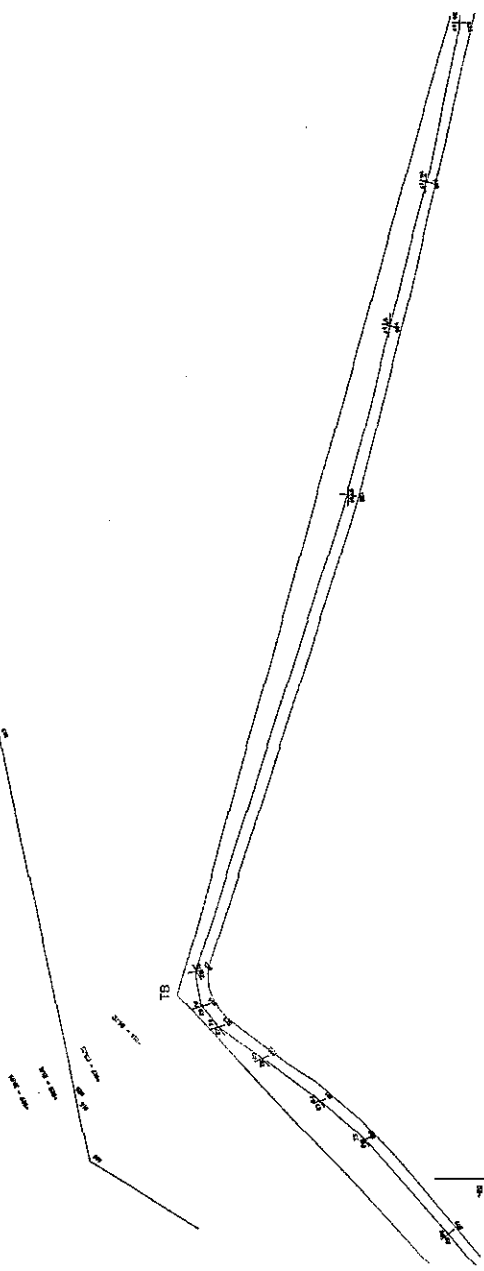
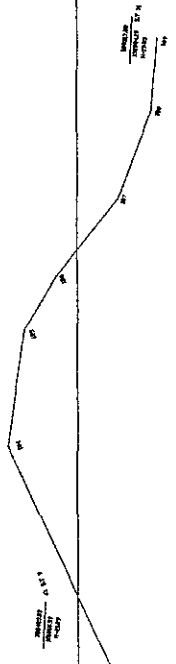
SHEET 4 OF 42  
 DWP SHEET NO. 4  
 DATE AUGUST, 2008  
 SCALE: HUSSO V1100

CONVEYANCE SYSTEM IN ALJJA  
 PLAN & PROFILE



NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY



HDPE 400mm	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

DATE	10/10/2008
DRAWN	...
CHECKED	...
DESIGNED	...
PROJECT	...

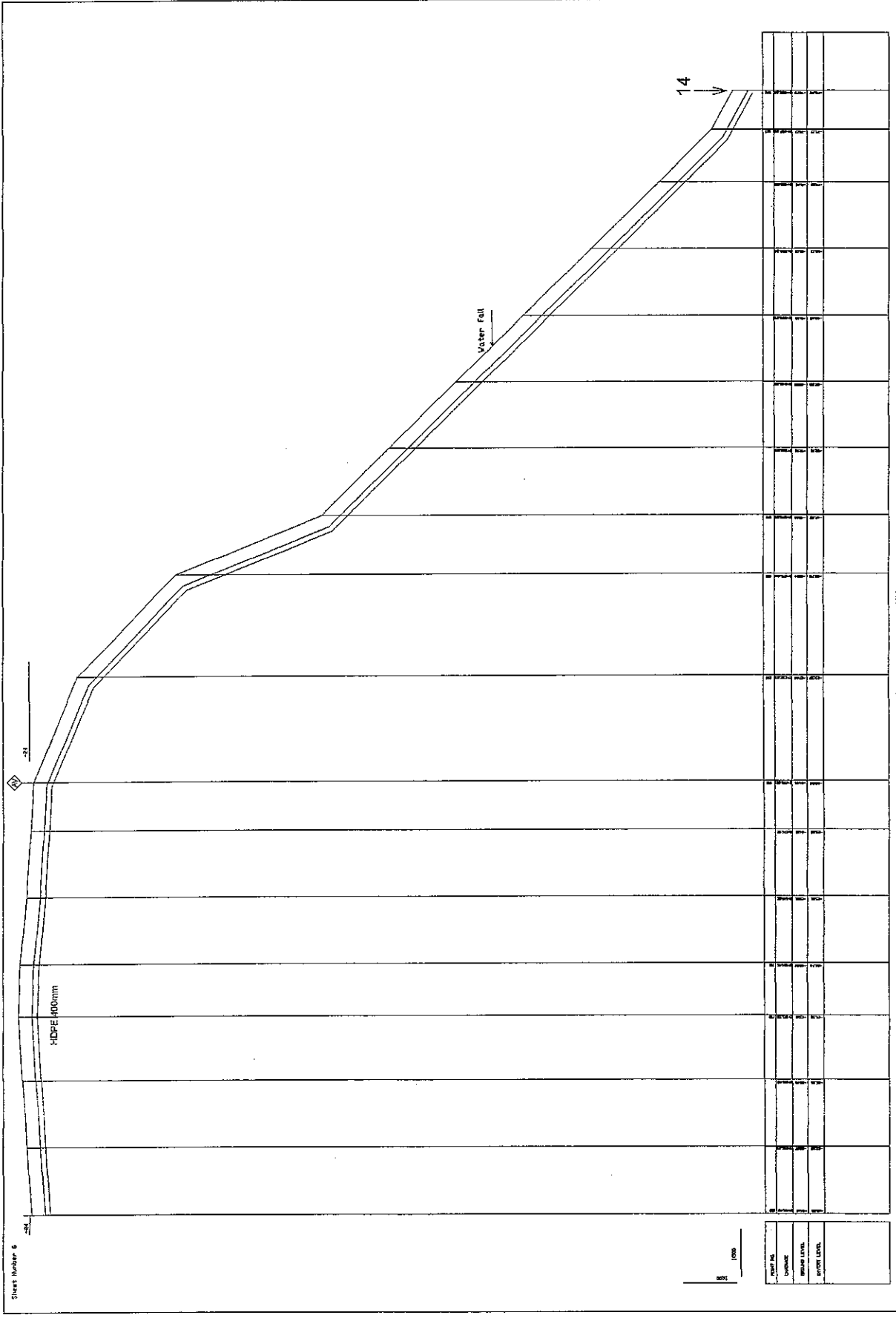
SHEET 5 OF 42  
 DWG SHEET NO. 5  
 DATE AUGUST, 2008  
 SCALE: 1:1000 V:1:100

CONVEYANCE SYSTEM IN AJUA  
 PLAN & PROFILE



**NIPPON KOEI CO., LTD.**

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY



Sheet Number 6

HDPE 400mm

Water Fall

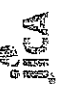
14

Channel	
Invert Level	
Water Level	

0 1000

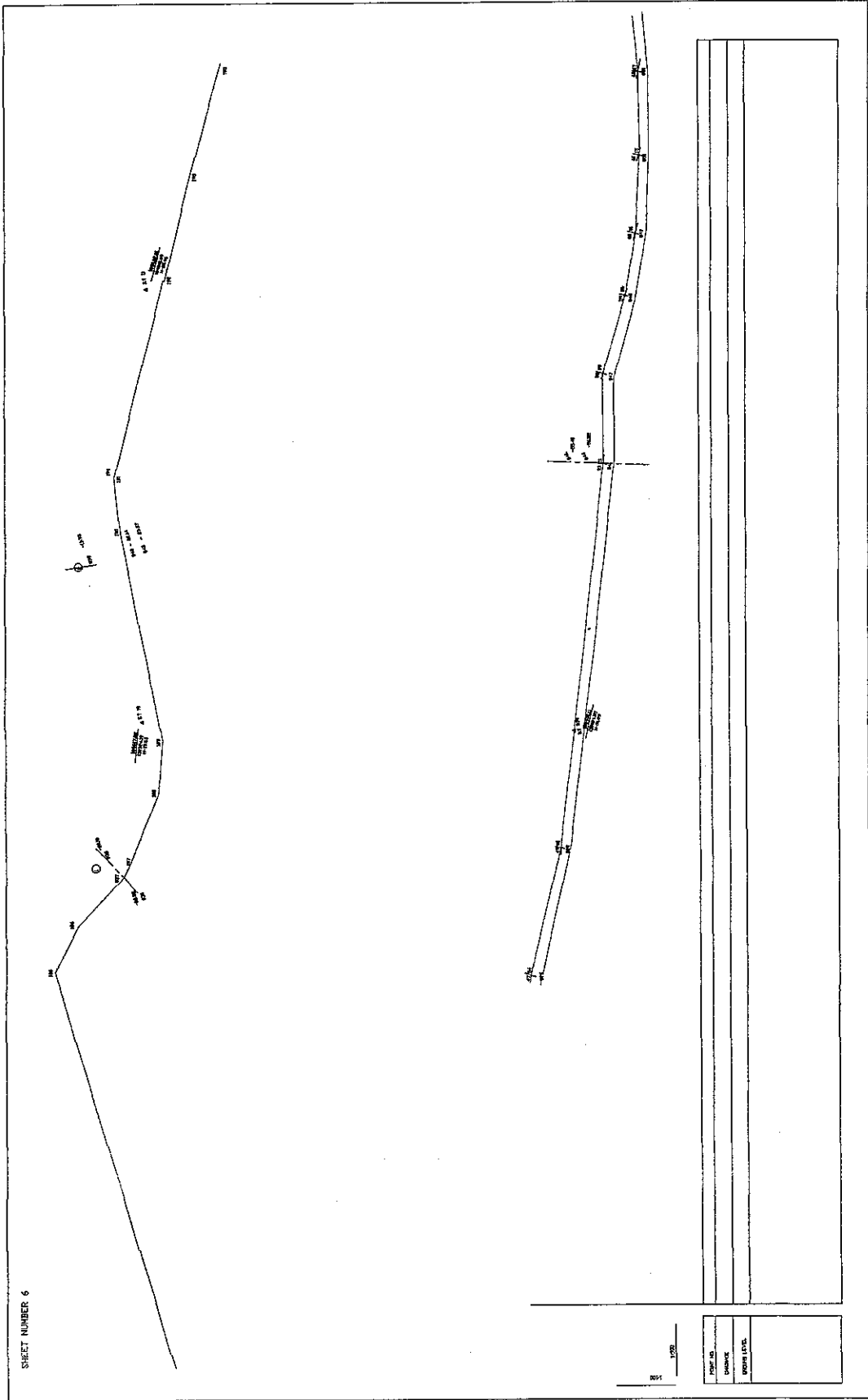
SHEET 6 OF 42  
 DWG SHEET NO. 6  
 DATE AUGUST, 2008  
 SCALE H:1500 V:1:100

CONVEYANCE SYSTEM IN AUJA  
 PLAN & PROFILE



**NIPPON KOEI CO., LTD.**

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY



SHEET NUMBER 6

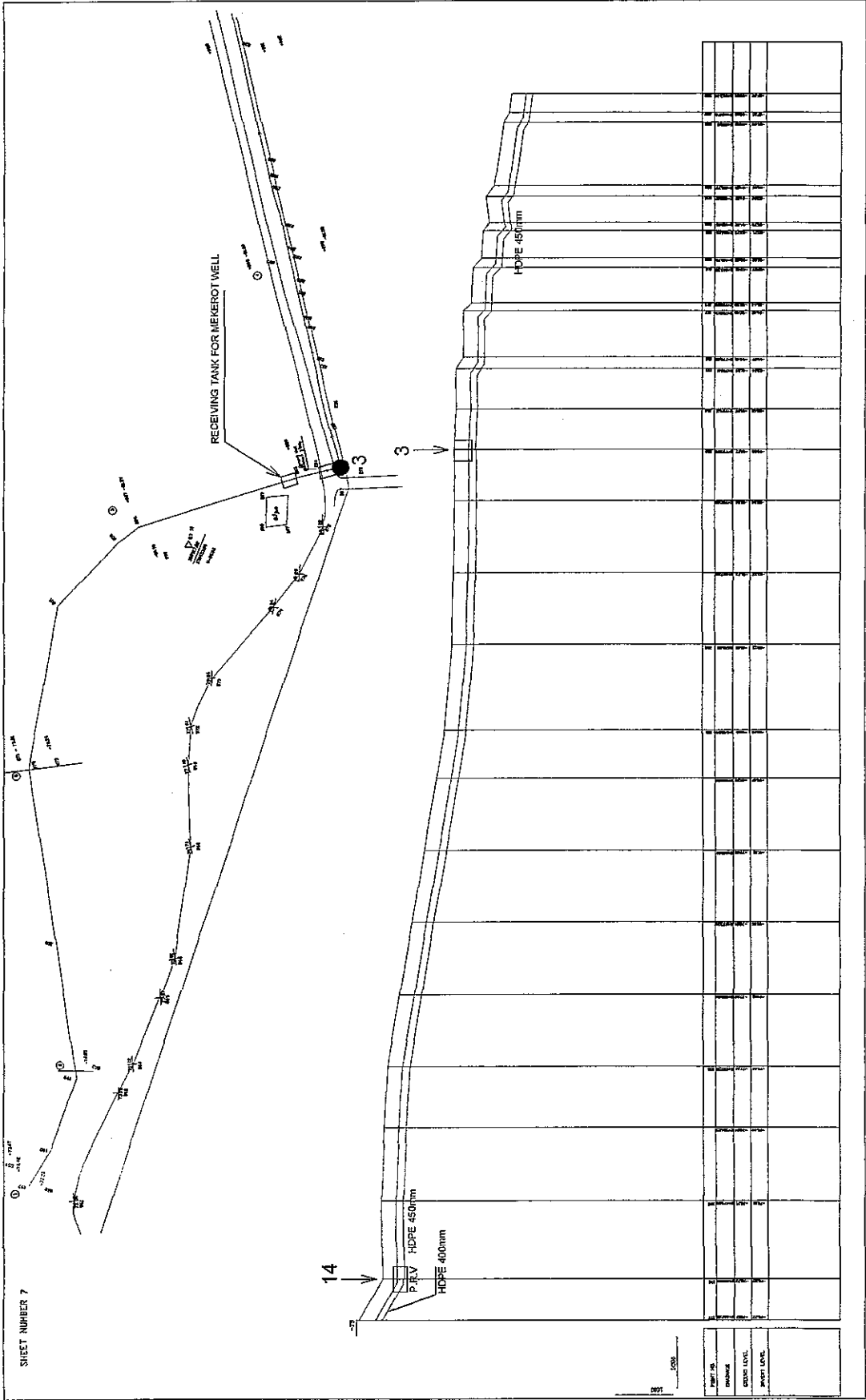
SHEET 7 OF 42  
 DWD: SHEET NO. 6  
 DATE: AUGUST, 2008  
 SCALE: H:5000 V:1:100

CONVEYANCE SYSTEM IN ALUJA  
 PLAN & PROFILE



**NIPPON KOEI CO., LTD.**

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY



SHEET NUMBER 7

14

P.V. HDPE 450mm

HDPE 400mm

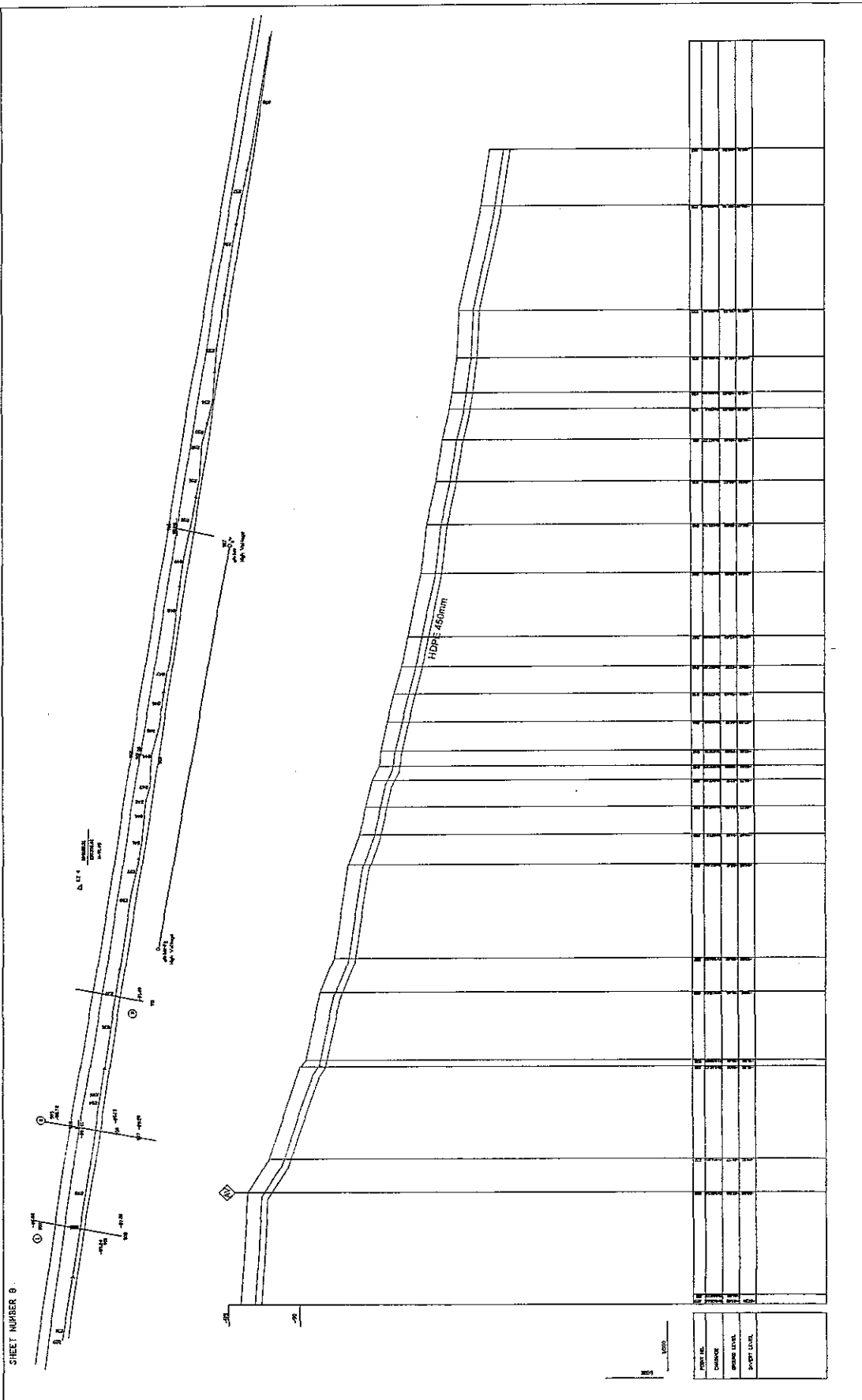
SHEET 8 OF 42  
DWG SHEET NO. 7  
DATE AUGUST, 2008  
SCALE: 1:1500 (H:100)

CONVEYANCE SYSTEM IN ALJJA  
PLAN & PROFILE



NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY.



SHEET NUMBER 8

SHEET 5 OF 42  
 DWG SHEET NO. 8  
 DATE AUGUST, 2008  
 SCALE: H1:500 V1:100

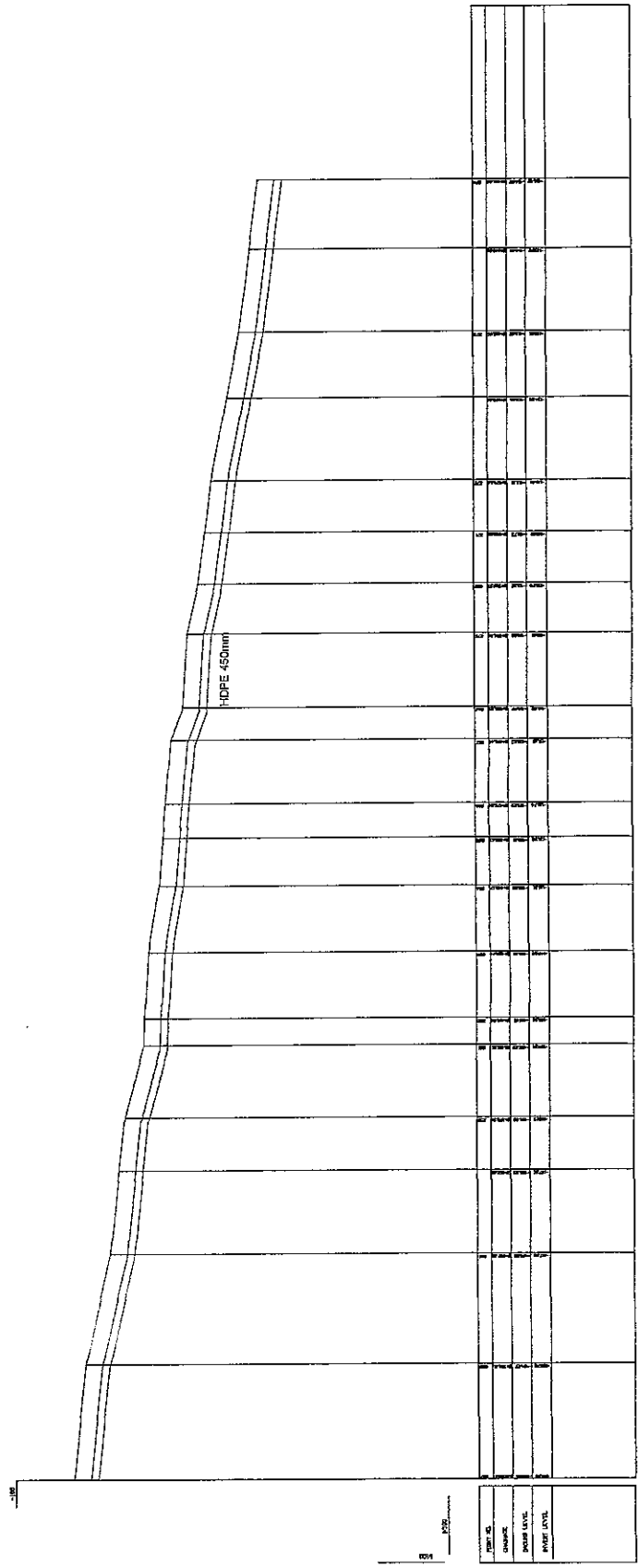
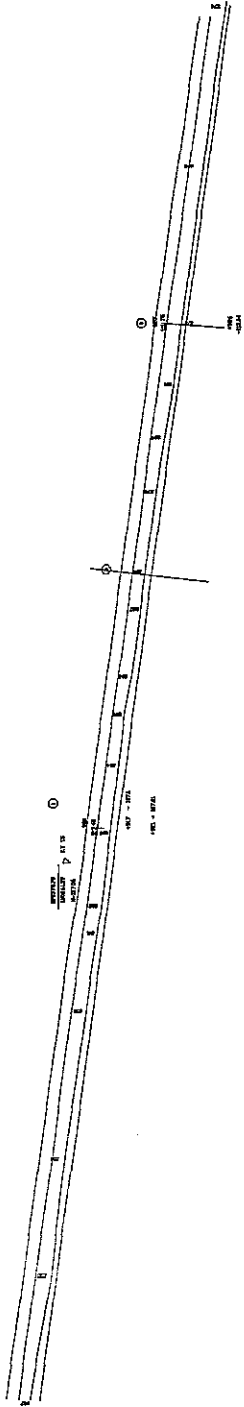
CONVEYANCE SYSTEM IN AUA  
 PLAN & PROFILE



NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY

SHEET NUMBER 9



DATE	
SCALE	
PROJECT NO.	
DESIGNER	
CHECKER	
APPROVED	
REVISION	

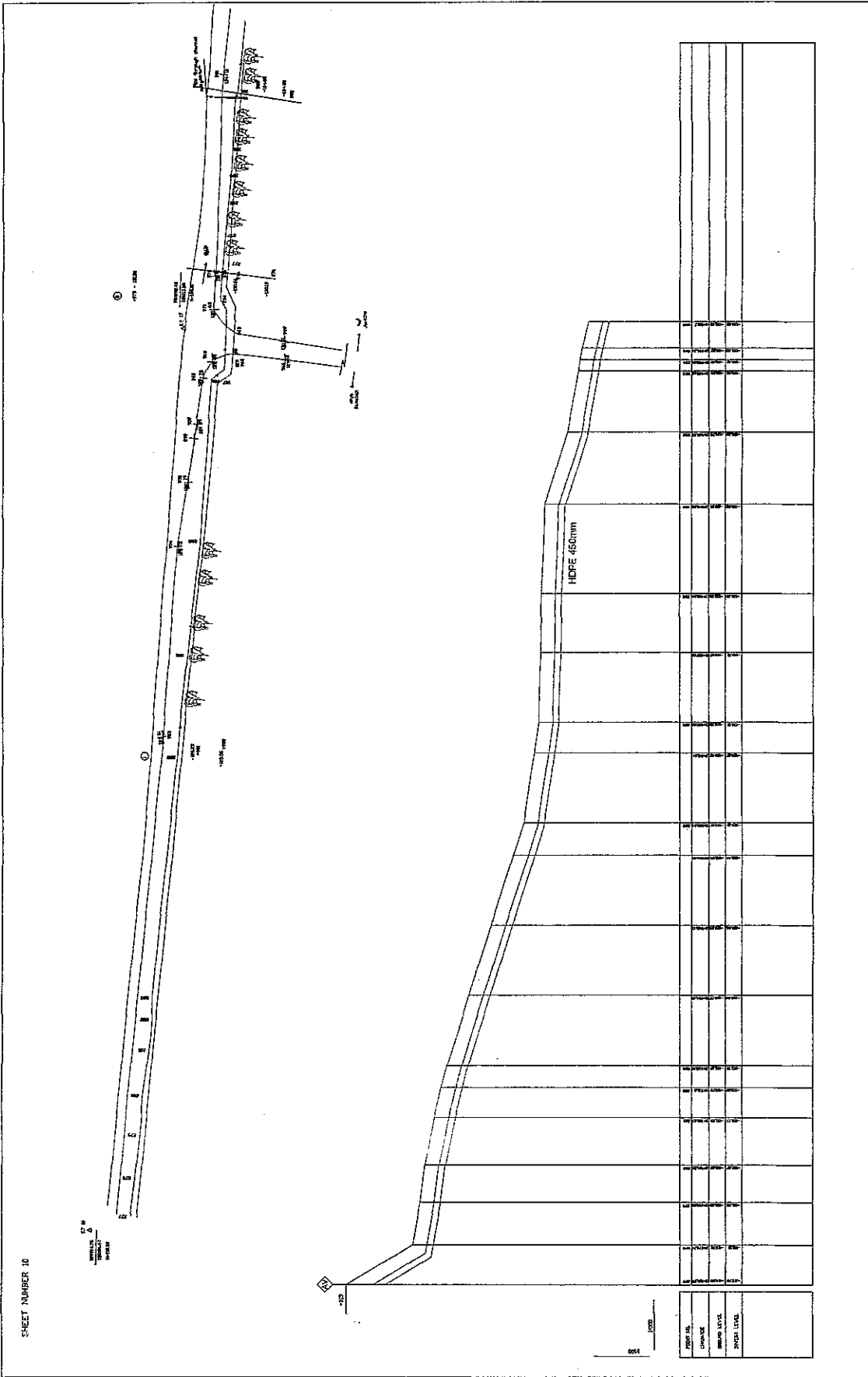
SHEET 10 OF 42  
 DWG SHEET NO. 9  
 DATE AUGUST, 2009  
 SCALE: H1:500 V:1:100

CONVEYANCE SYSTEM IN ALJIA  
 PLAN & PROFILE



NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY



SHEET NUMBER 10

1:20  
1:50  
1:100  
1:200

HDPE 450mm

SHEET 11 OF 42  
DWG SHEET NO. 10  
DATE AUGUST, 2008  
SCALE: HESBO V1:100

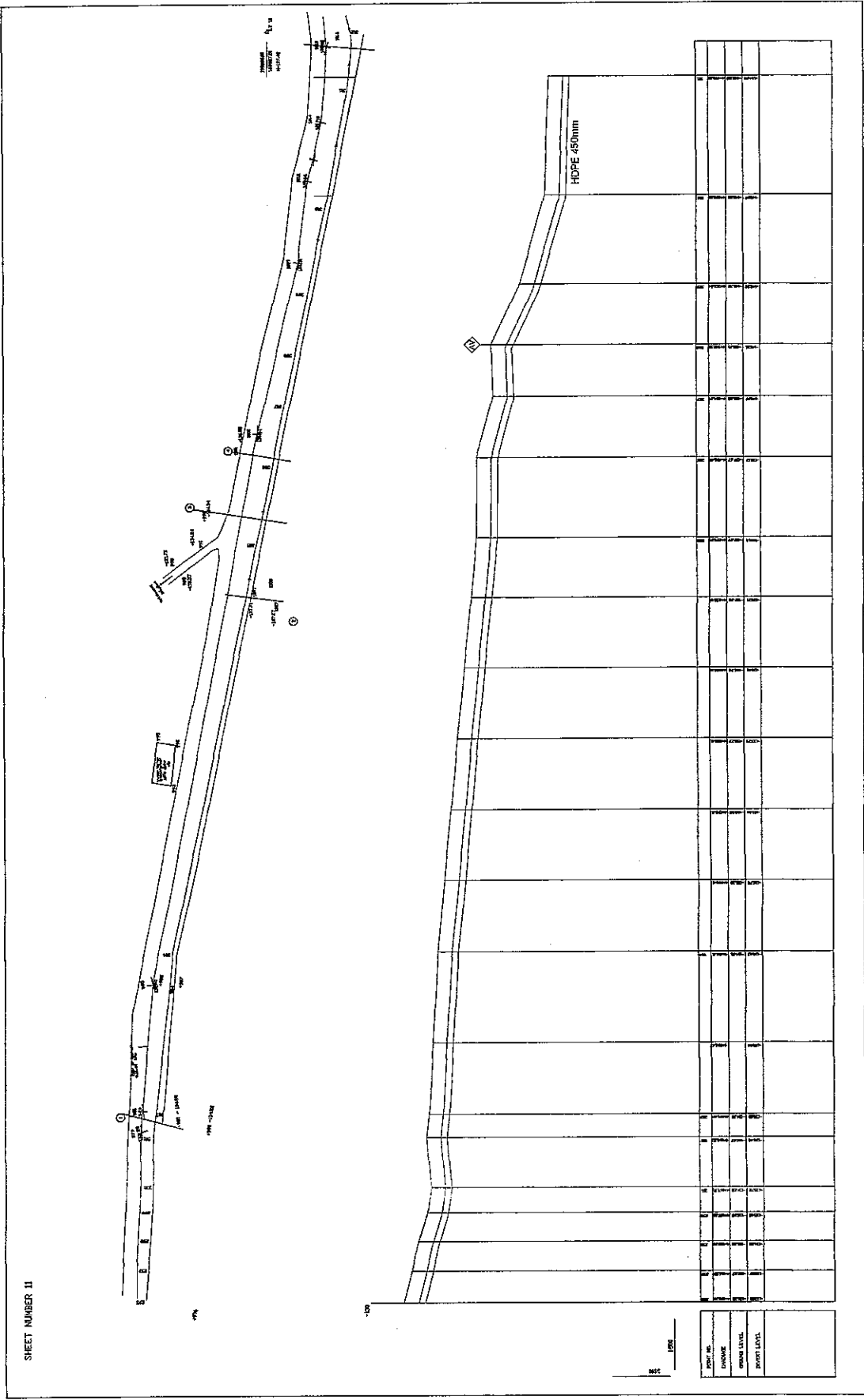
CONVEYANCE SYSTEM IN AJLUA  
PLAN & PROFILE



**NIPPON KOEI CO., LTD.**

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY





SHEET NUMBER 11

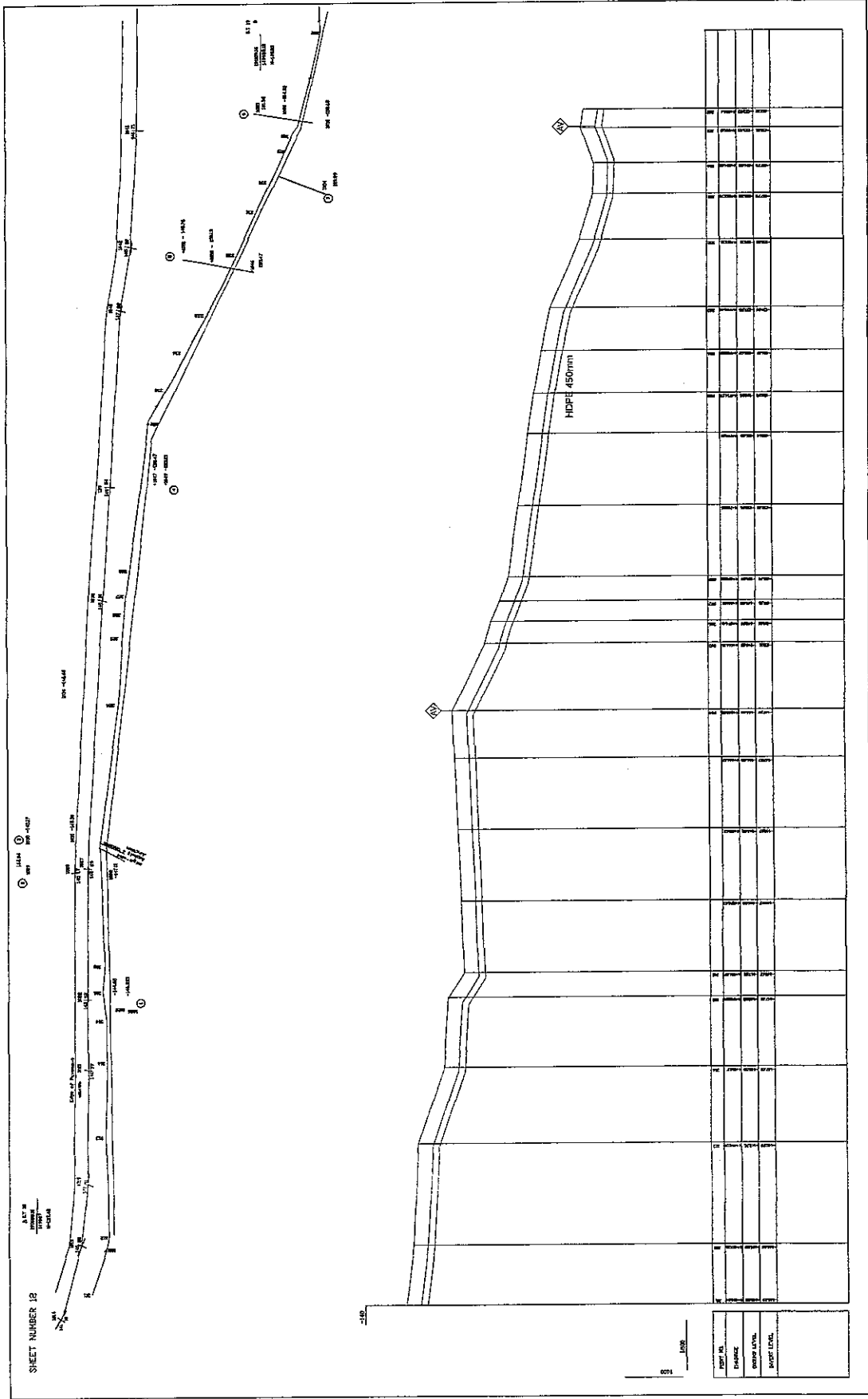
SHEET 11 OF 42  
 DWG SHEET NO. 11  
 DATE AUGUST, 2008  
 SCALE: 1:1500 V:1:100

CONVEYANCE SYSTEM IN ALJIA  
 PLAN & PROFILE



NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY



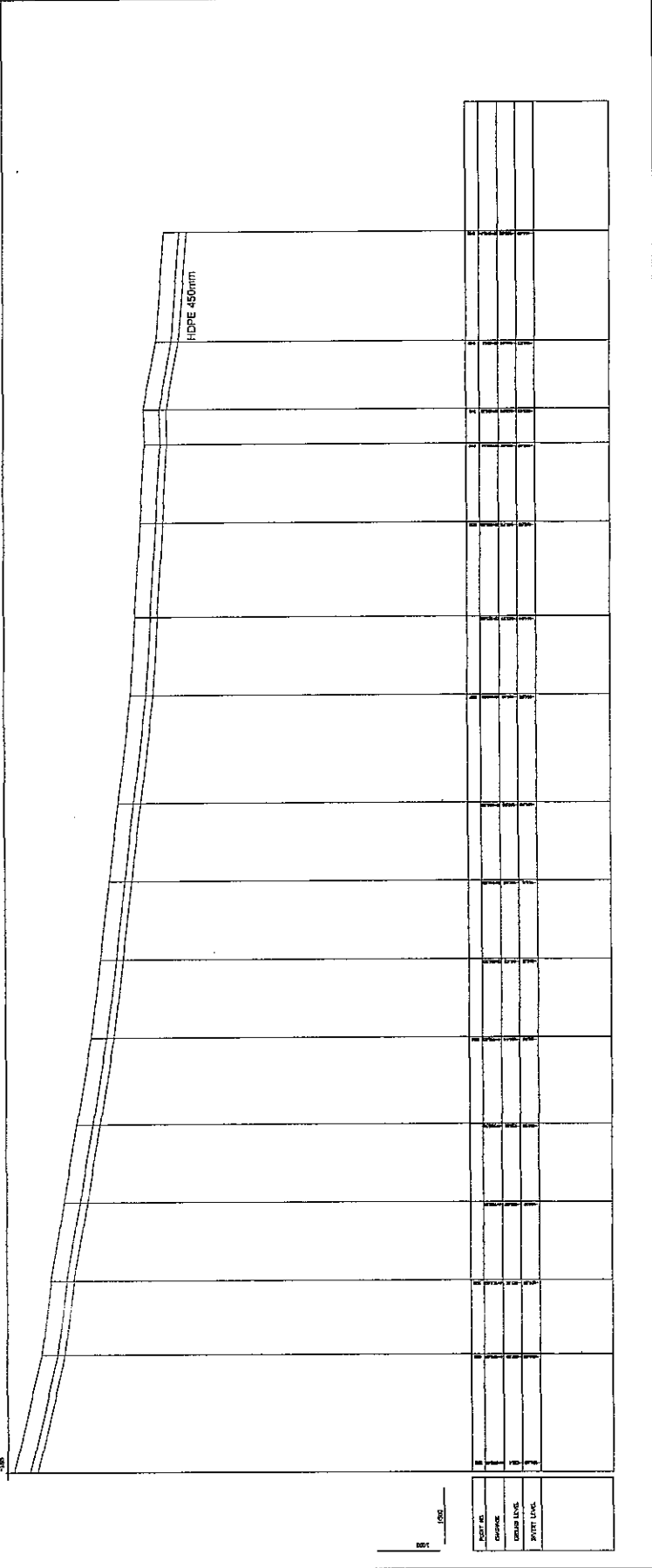
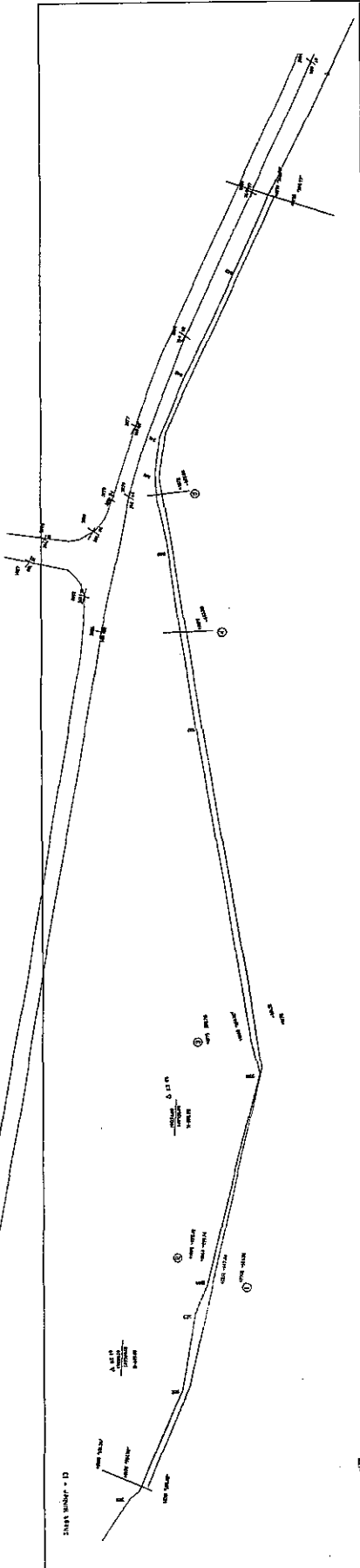
SHEET 12 OF 42  
 DWG SHEET NO. 12  
 DATE AUGUST 2008  
 SCALE: H:500 V:100

CONVEYANCE SYSTEM IN ALJIA  
 PLAN & PROFILE



NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY



DATE	
DESIGNER	
CHECKED	
APPROVED	

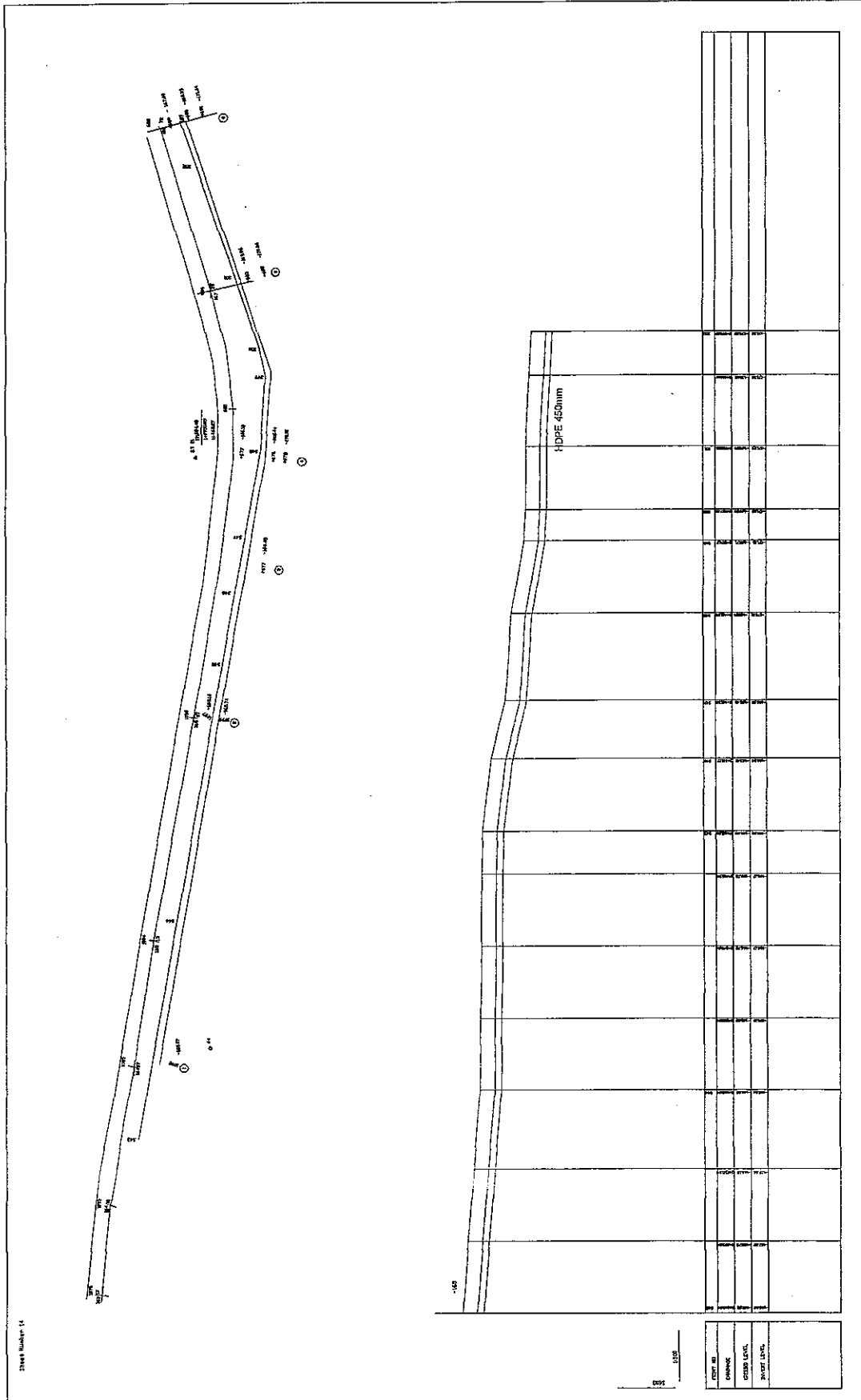
SHEET 13 OF 42  
 DWG. SHEET NO. 13  
 DATE AUGUST, 2008  
 SCALE: H:500 V:100

CONVEYANCE SYSTEM IN ALJUA  
 PLAN & PROFILE



NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY



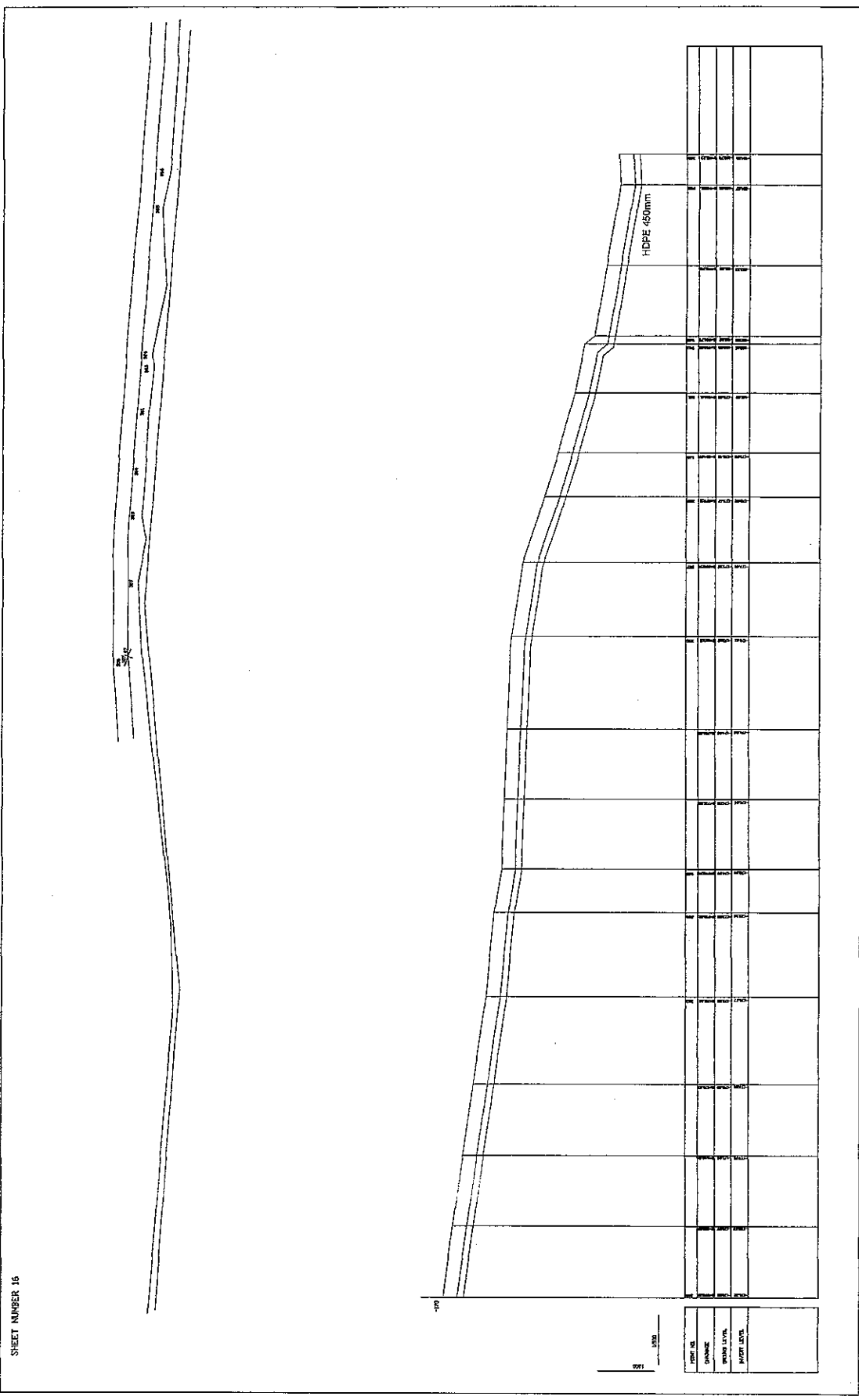
SHEET 14 OF 42  
 DWG. SHEET NO. 14  
 DATE AUGUST, 2008  
 SCALE: 1:1500 V11100

CONVEYANCE SYSTEM IN AJUA  
 PLAN & PROFILE



NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY



SHEET NUMBER 15

SHEET 15 OF 42  
 DWG SHEET NO. 16  
 DATE AUGUST, 2008  
 SCALE 1:1500 V1100

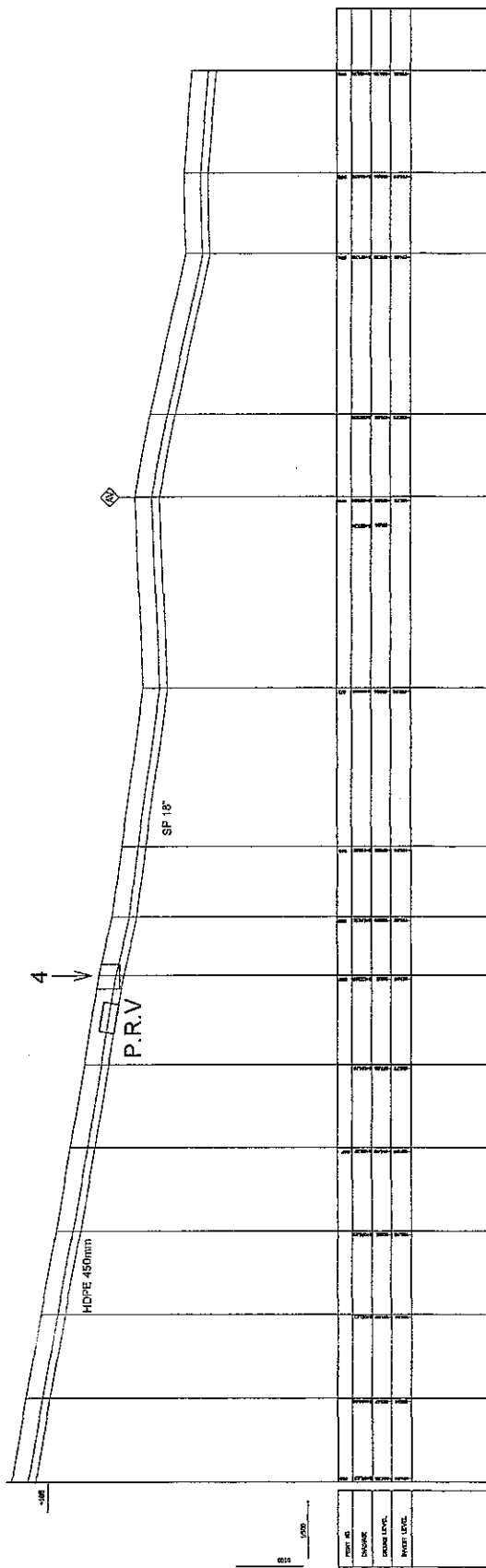
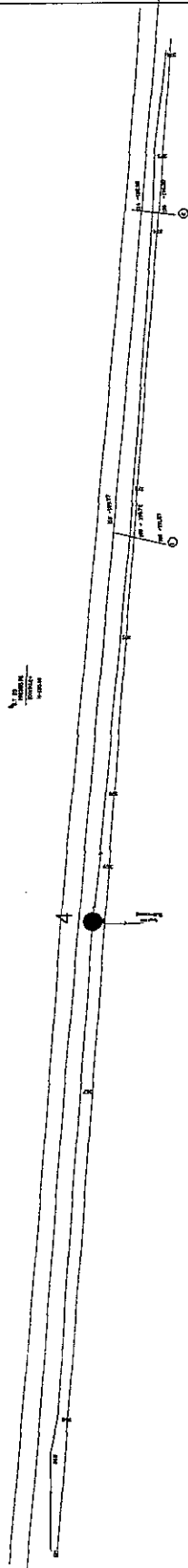
CONVEYANCE SYSTEM IN AUJA  
 PLAN & PROFILE



**NIPPON KOEI CO., LTD.**

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY

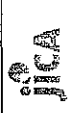
SHEET NUMBER 17



DATE	17/08/2008
DRAWN	...
CHECKED	...
PROJECT	...

SHEET 16 OF 42  
 DWG SHEET NO. 17  
 DATE AUGUST, 2008  
 SCALE: 1:1500 1/1100

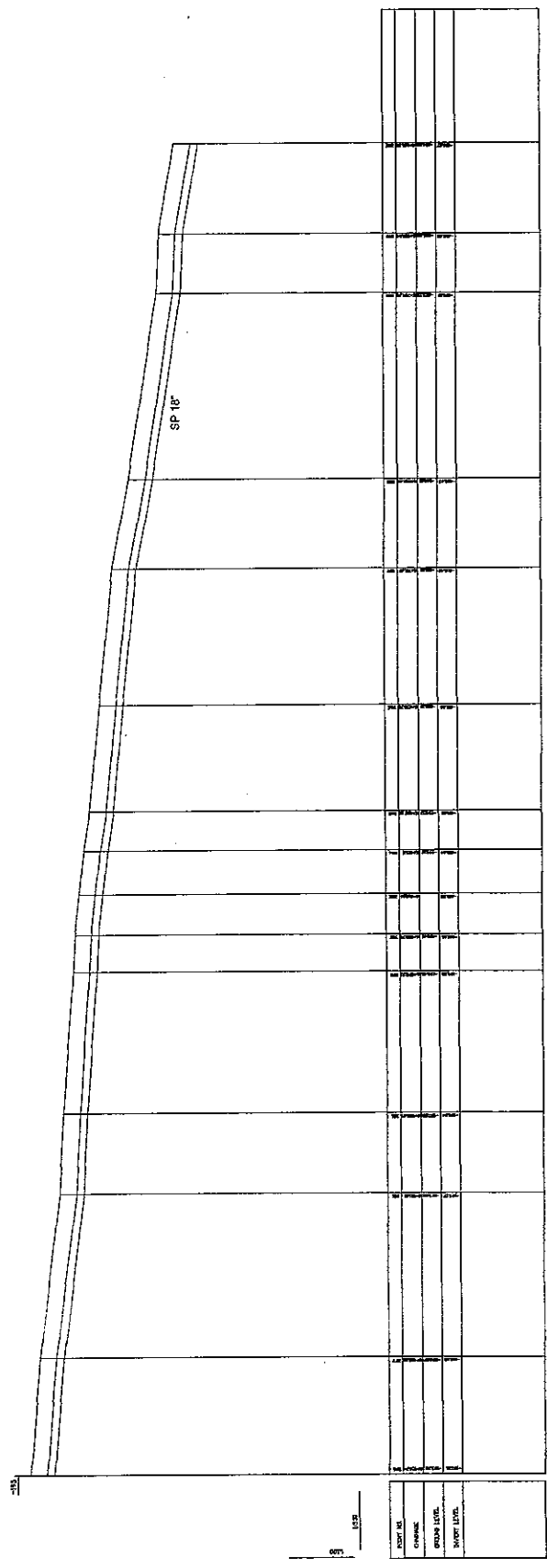
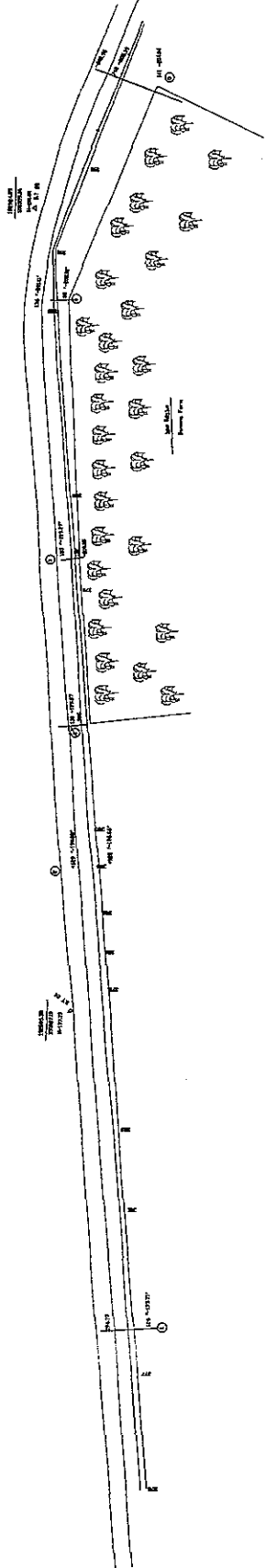
CONVEYANCE SYSTEM IN ALJJA  
 PLAN & PROFILE



NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY

SHEET NUMBER 18



POST 15	1.50
CHANNEL	
GRADE LINE	
WATER LEVEL	

SHEET 17 OF 42  
 DATE AUGUST, 2008  
 SCALE: H:1500 V:100

CONVEYANCE SYSTEM IN ALUA  
 PLAN & PROFILE

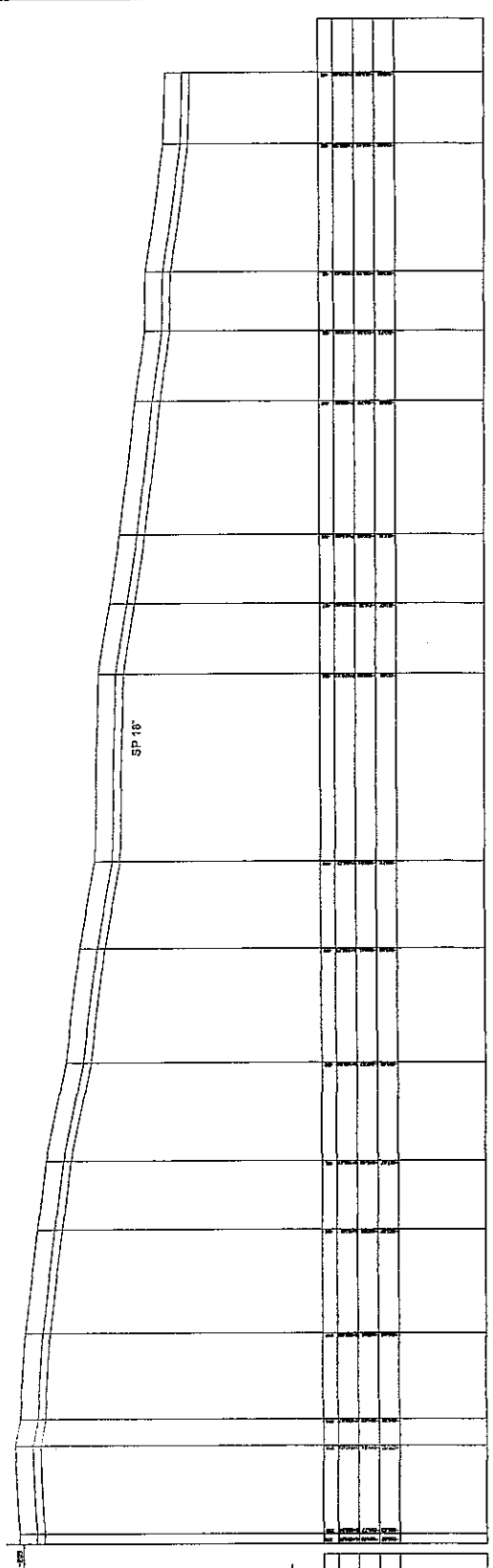
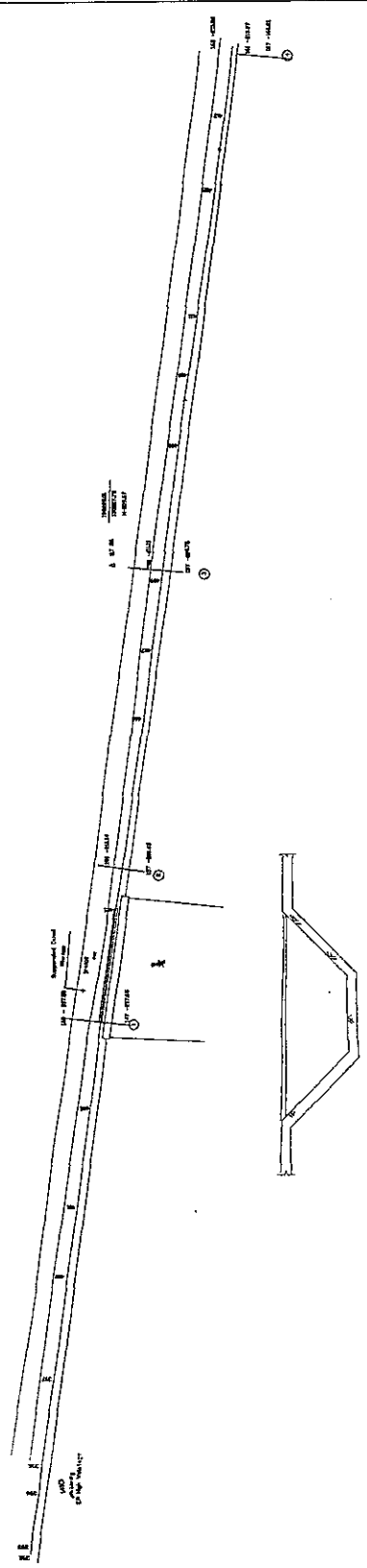


NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY

SHEET NUMBER 19

DATE



DATE	1988
DESIGN	
PROJECT NO.	
SHEET NO.	19

SHEET 19 OF 42  
 DATE - AUGUST, 2008  
 SCALE - 1:15000 V:1:100

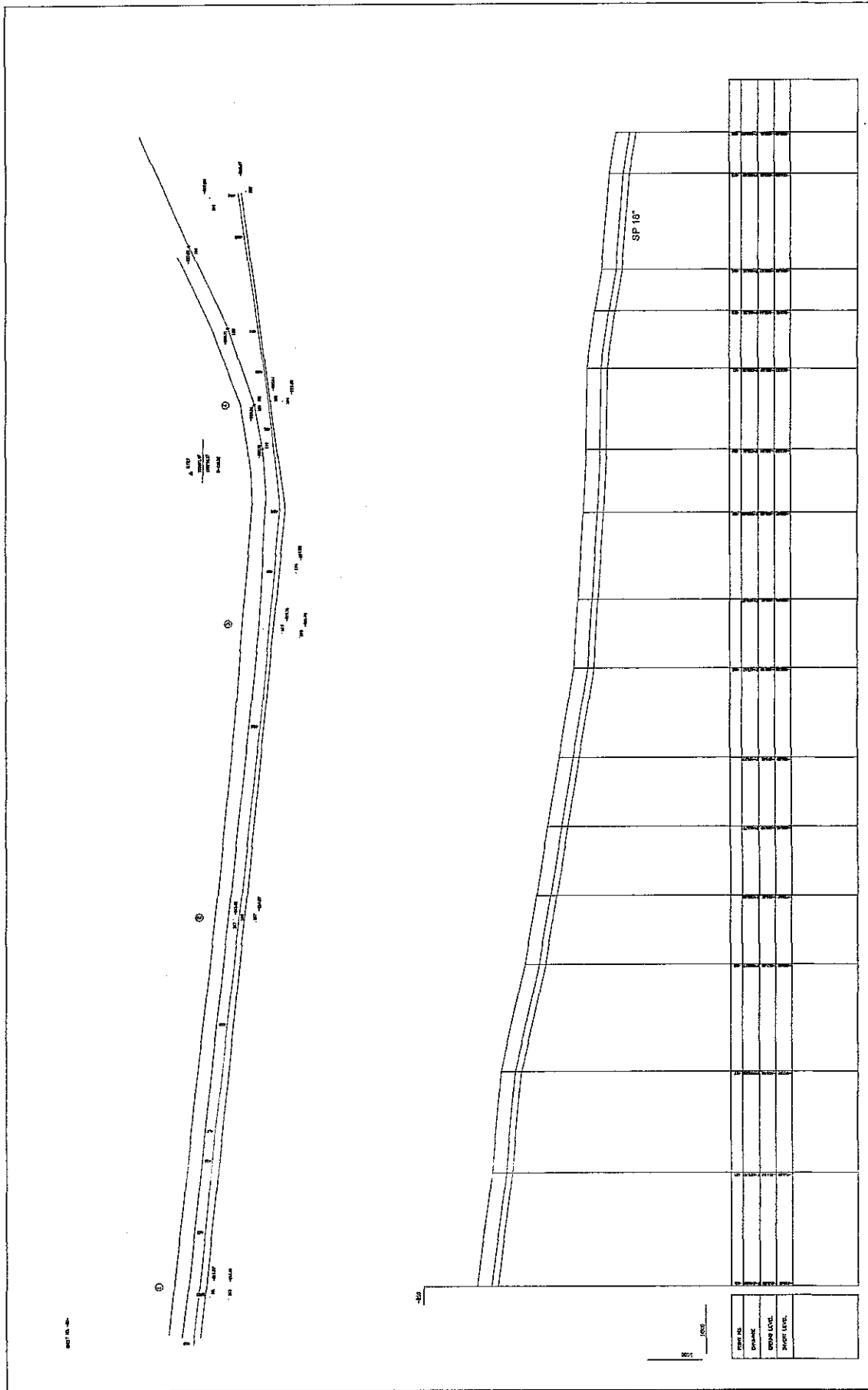
CONVEYANCE SYSTEM IN AUUA  
 PLAN & PROFILE



**NIPON KOEI CO., LTD.**

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY





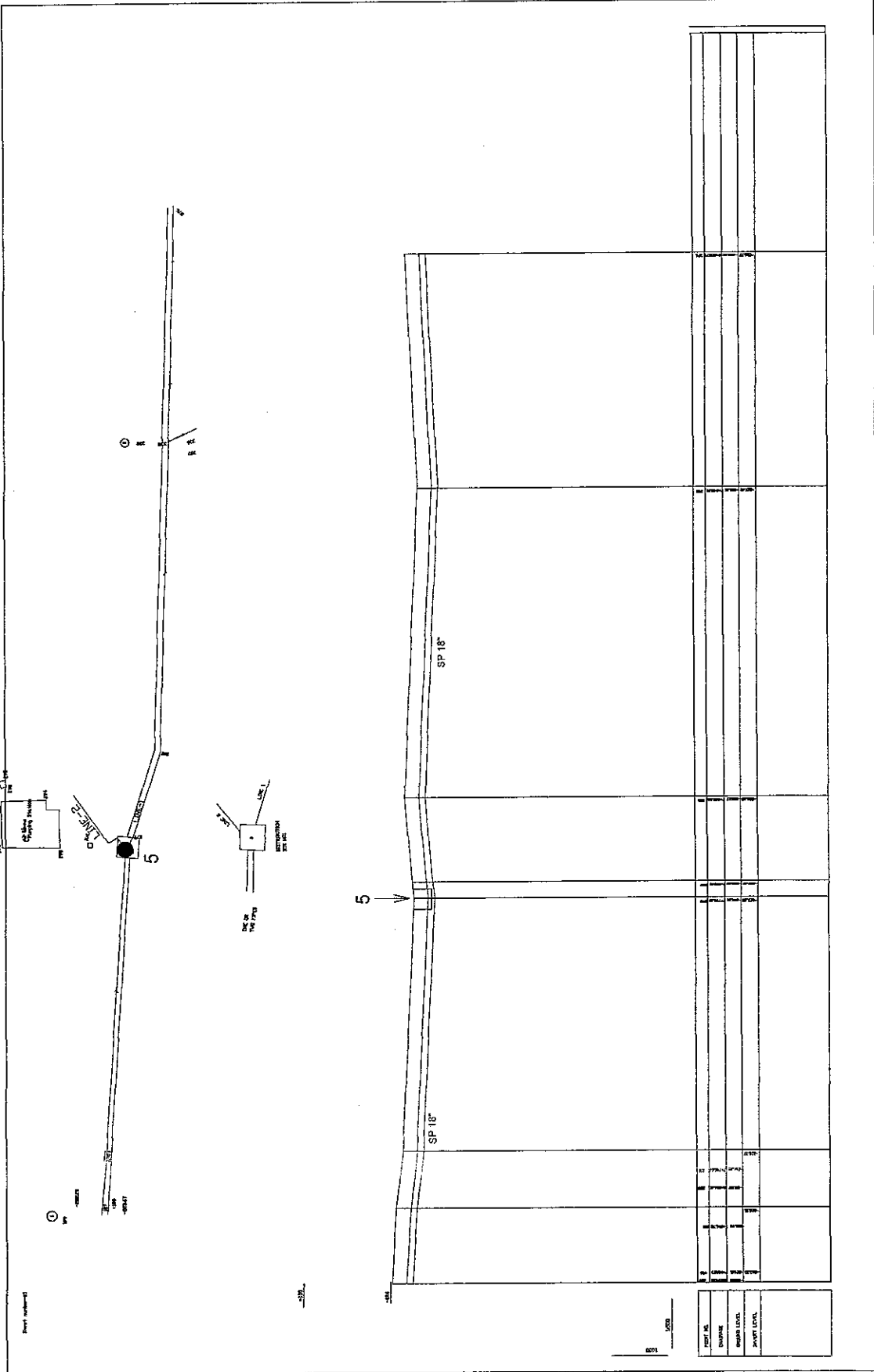
SHEET 18 OF 42  
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 DATE AUGUST, 2008  
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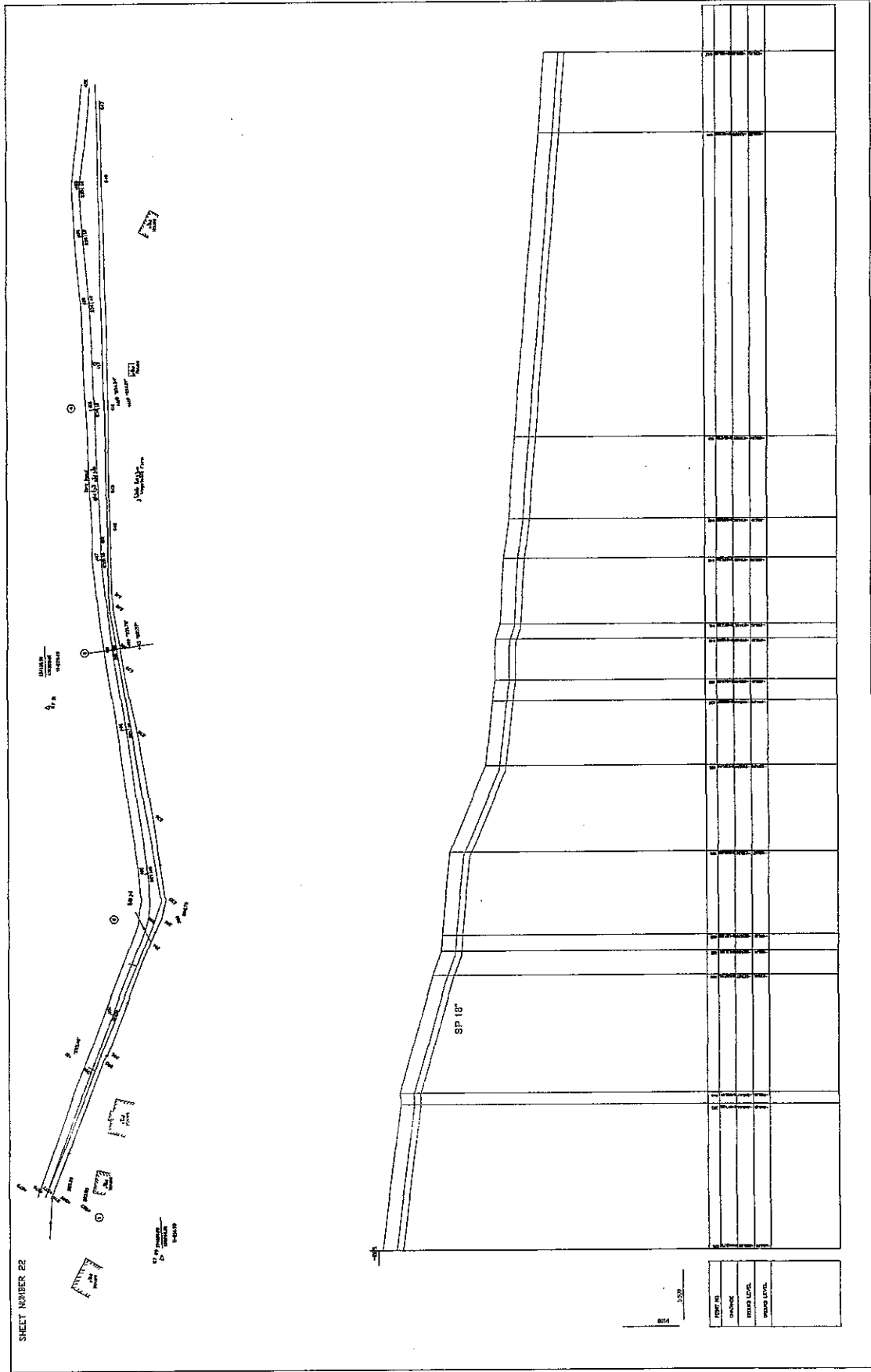
CONVEYANCE SYSTEM IN ALJJA  
 PLAN & PROFILE



NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY





SHEET 21 OF 42  
 DWG. SHEET NO. 22  
 DATE AUGUST 2008  
 SCALE: H:V=500 V:1:100

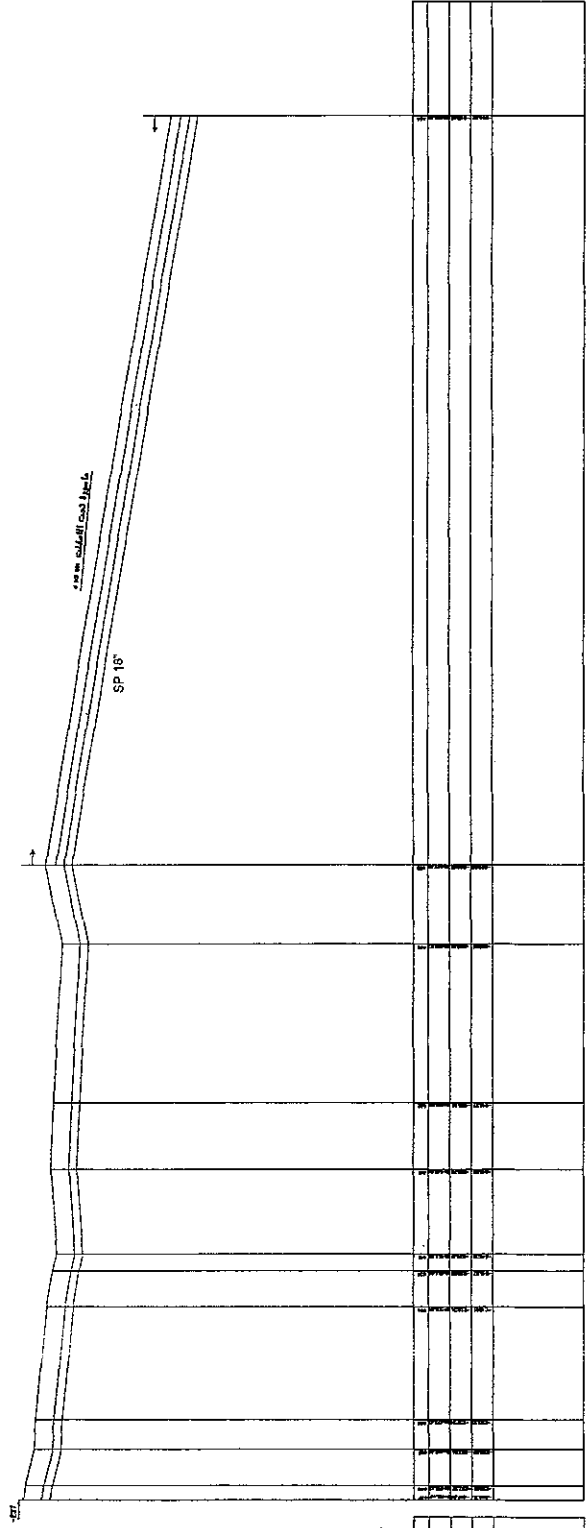
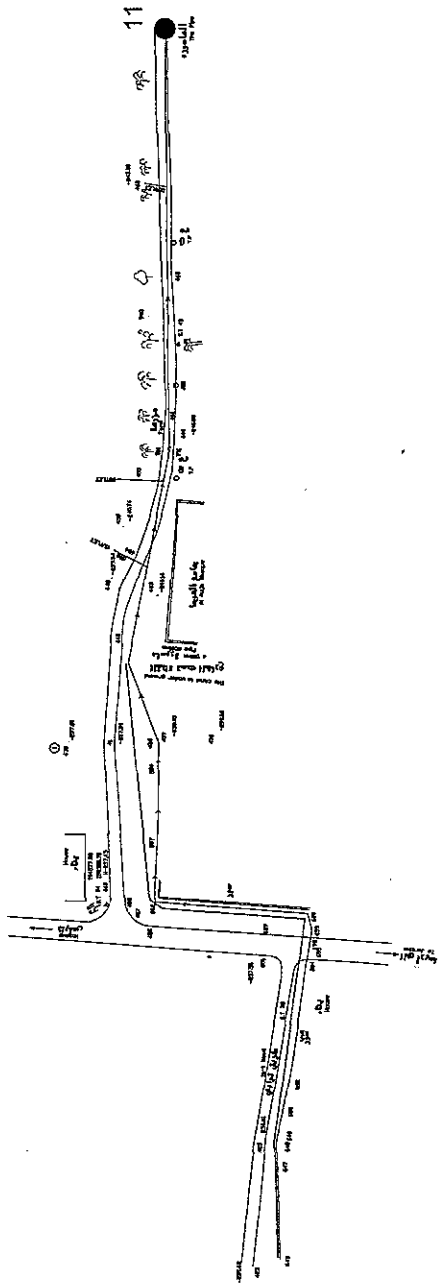
CONVEYANCE SYSTEM IN ALJJA  
 PLAN & PROFILE



NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY

SHEET No. 23



100	100
200	200
300	300
400	400
500	500
600	600
700	700
800	800
900	900
1000	1000

SHEET 23 OF 42  
 DWG SHEET NO. 23  
 DATE AUGUST, 2008  
 SCALE: 1:1500 V:1:100

CONVEYANCE SYSTEM IN AUJA  
 PLAN & PROFILE

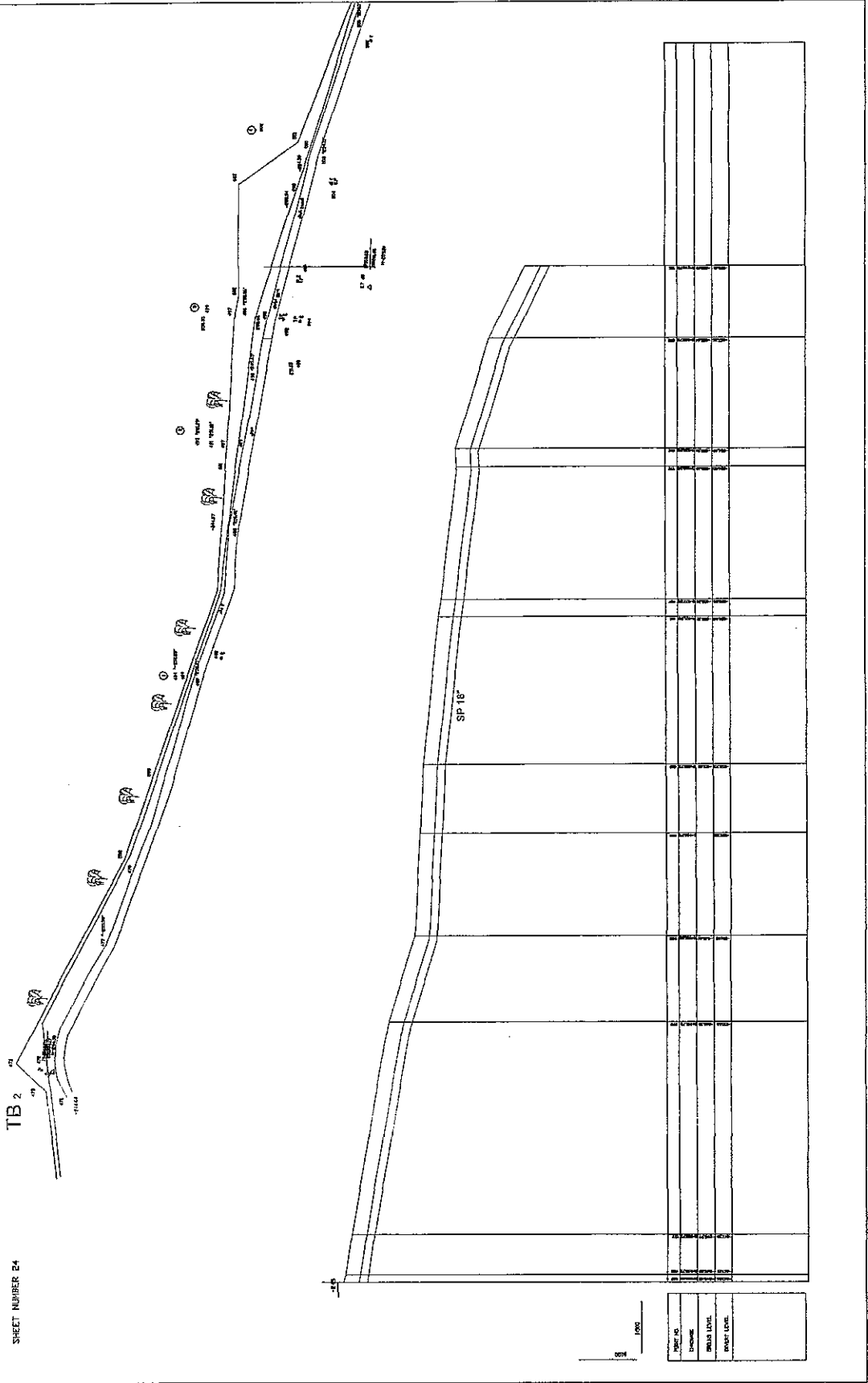


NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY

SHEET NUMBER 24

TB 2



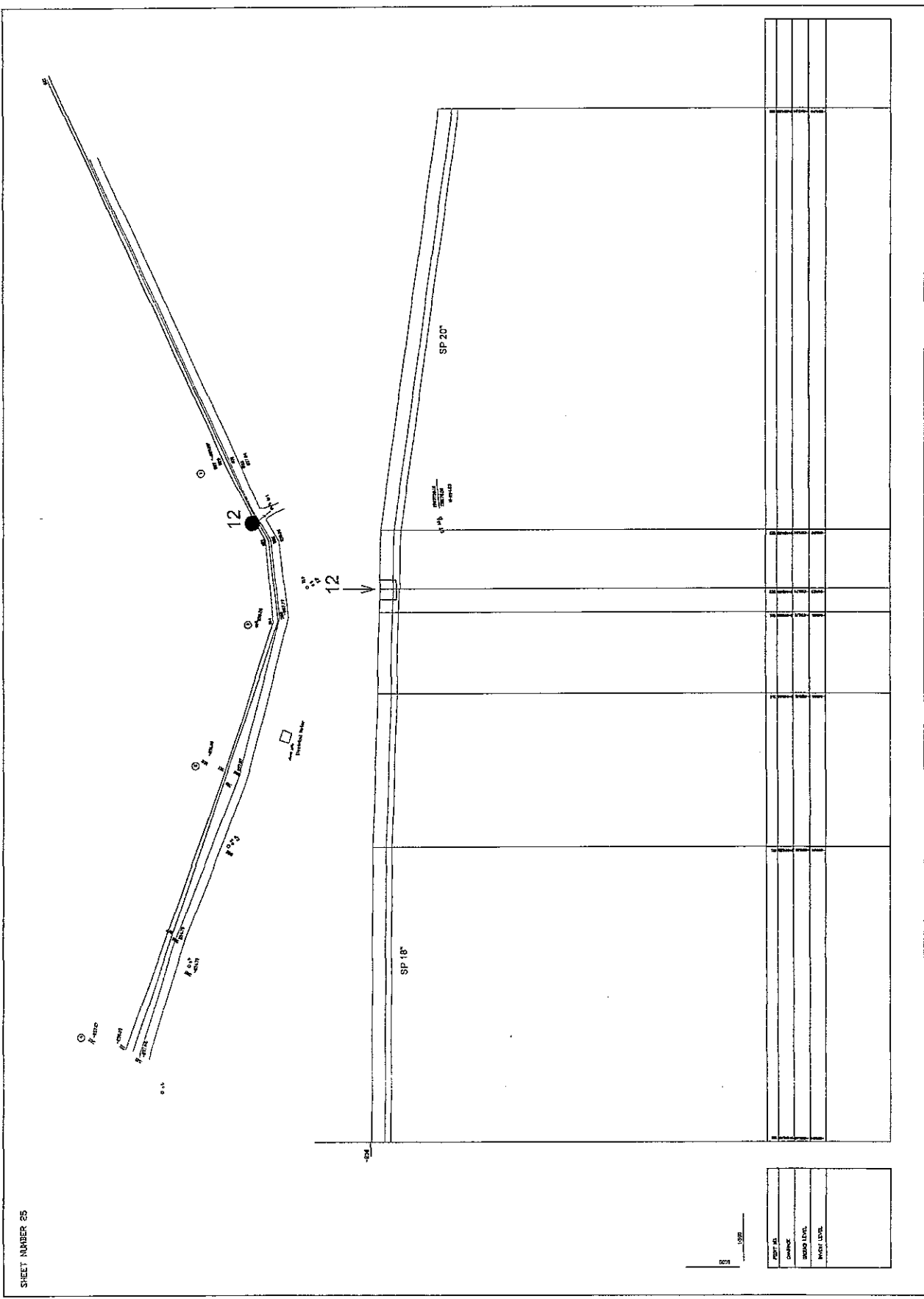
SHEET 23 OF 24  
 DIVISION SHEET NO. 24  
 DATE AUGUST, 2008  
 SCALE: 1/8" = 1'-0"

CONVEYANCE SYSTEM IN AQUA  
 PLAN & PROFILE

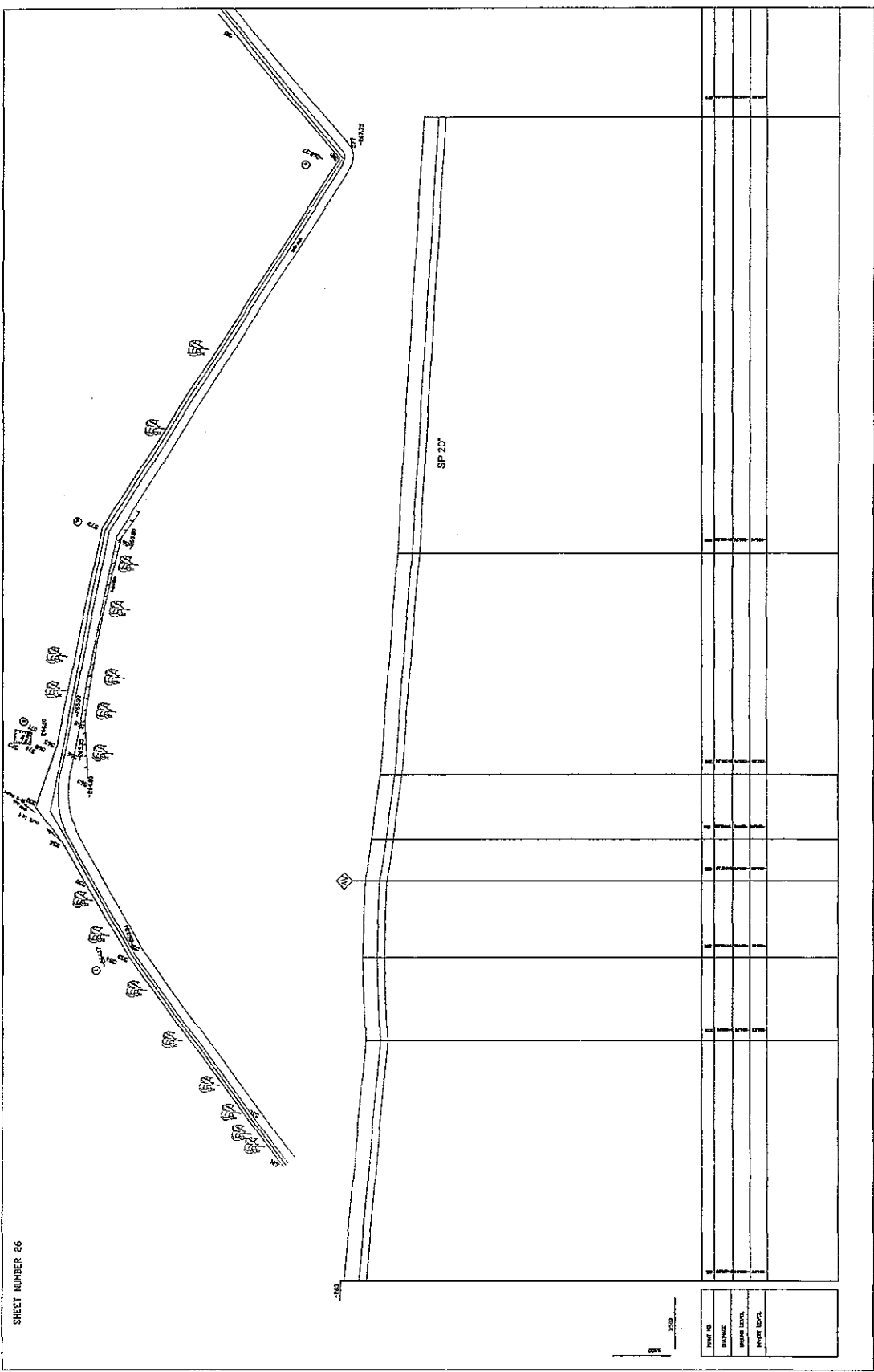


**NIPPON KOEI CO., LTD.**

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY



SHEET NUMBER 25



SHEET NUMBER 26

PROJECT NO.	
DATE	
SCALE	
BY	

SHEET 26 OF 42  
 DWG SHEET NO. 26  
 DATE AUGUST 2008  
 SCALE: 1:1000 VTI100

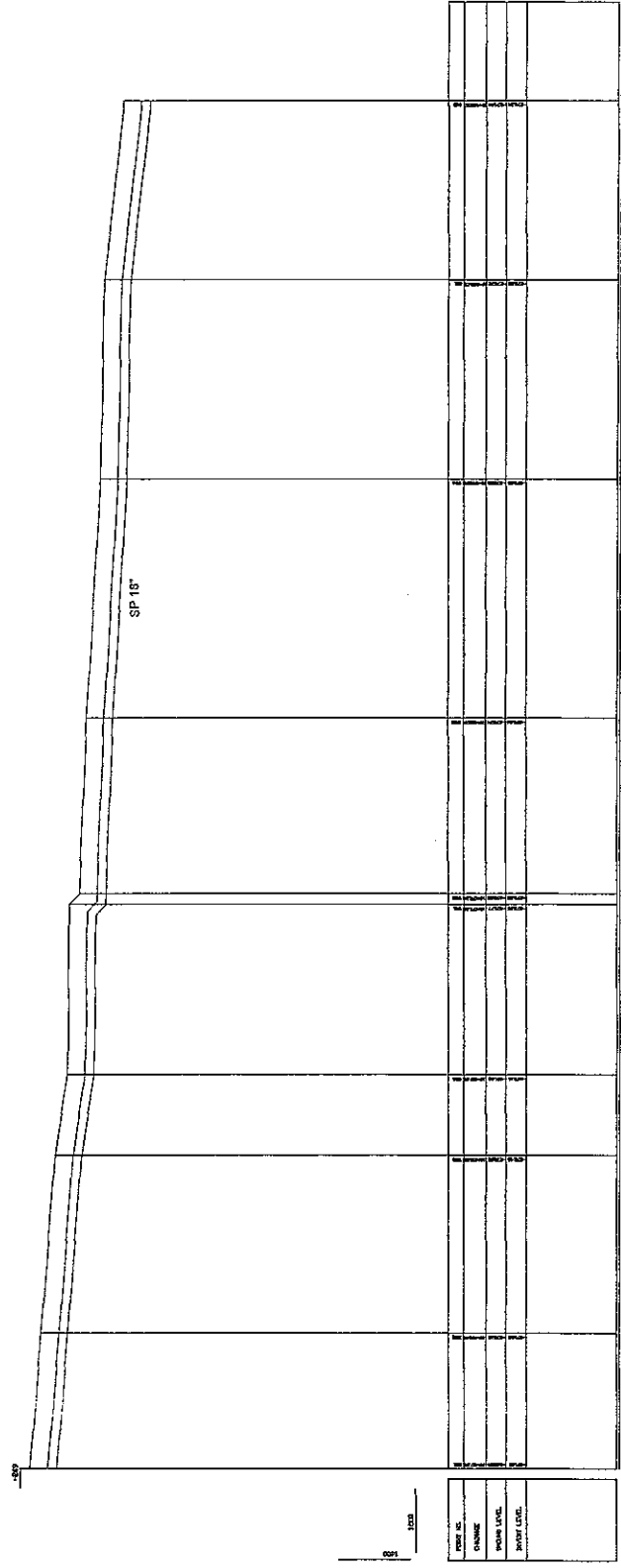
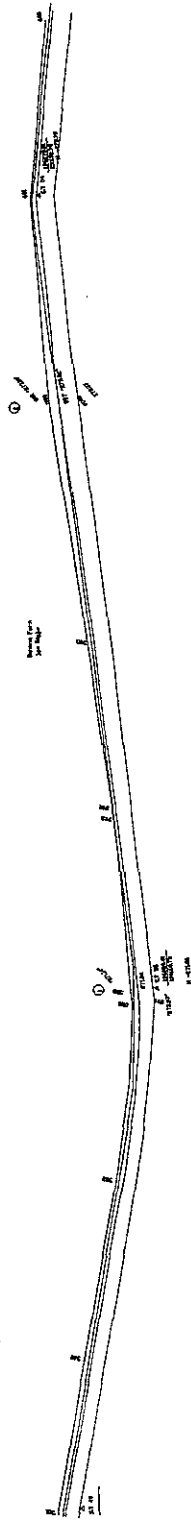
CONVEYANCE SYSTEM IN ALJAA  
 PLAN & PROFILE



**NIPPON KOEI CO., LTD.**

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY

SHEET NUMBER E7



SHEET 28 OF 42  
 DWG - SHEET NO. 27  
 DATE AUGUST, 2008  
 SCALE: 1:1500 V:100

CONVEYANCE SYSTEM IN ALJIA  
 PLAN & PROFILE

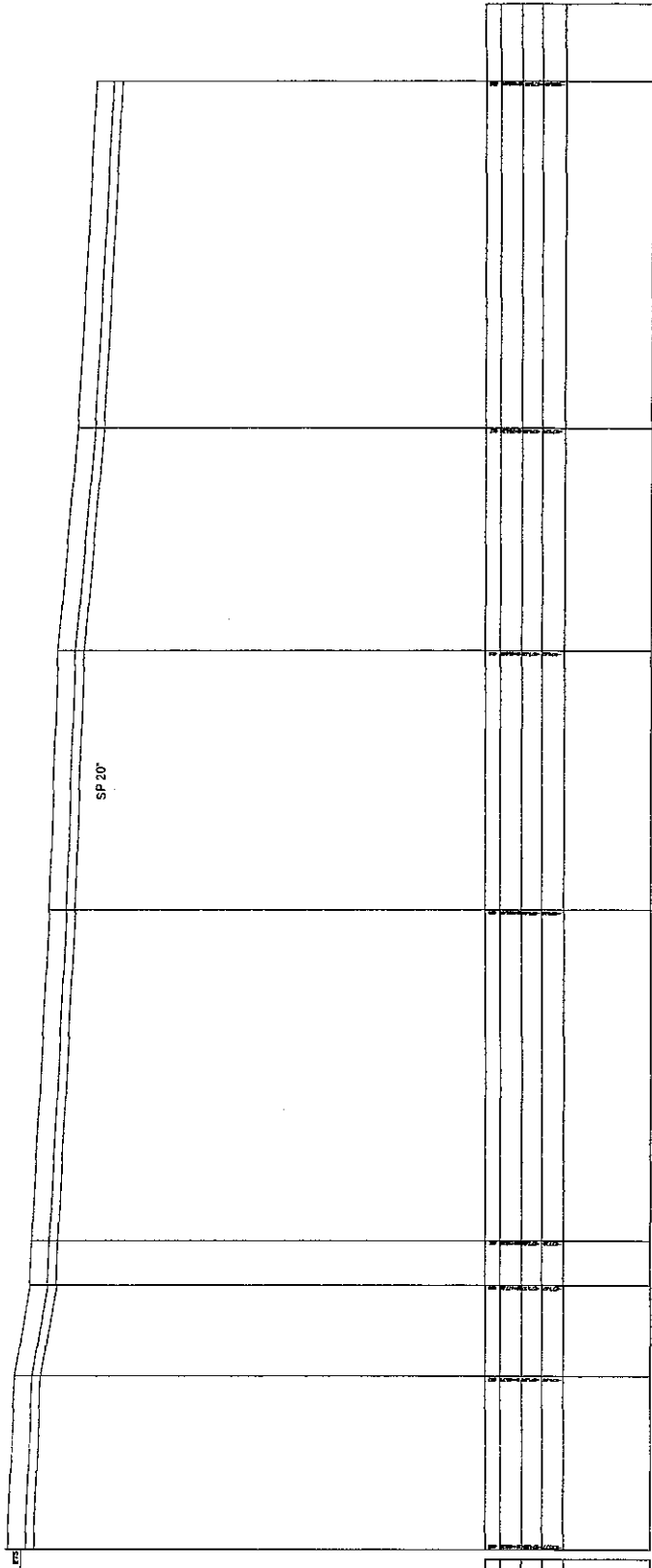
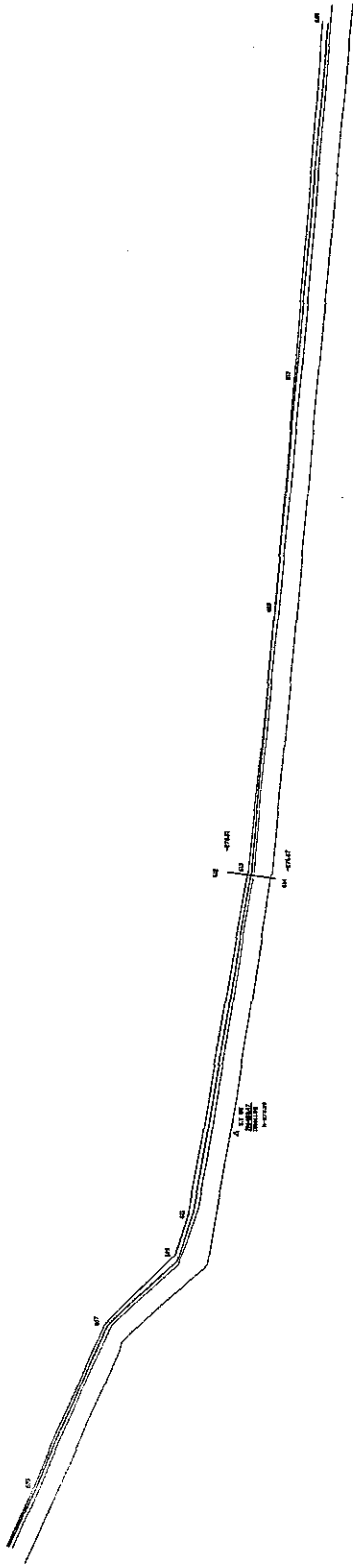


NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY



SHEET NO. 28



DATE	NO.
CHANGE	
ISSUED	
REVISED	

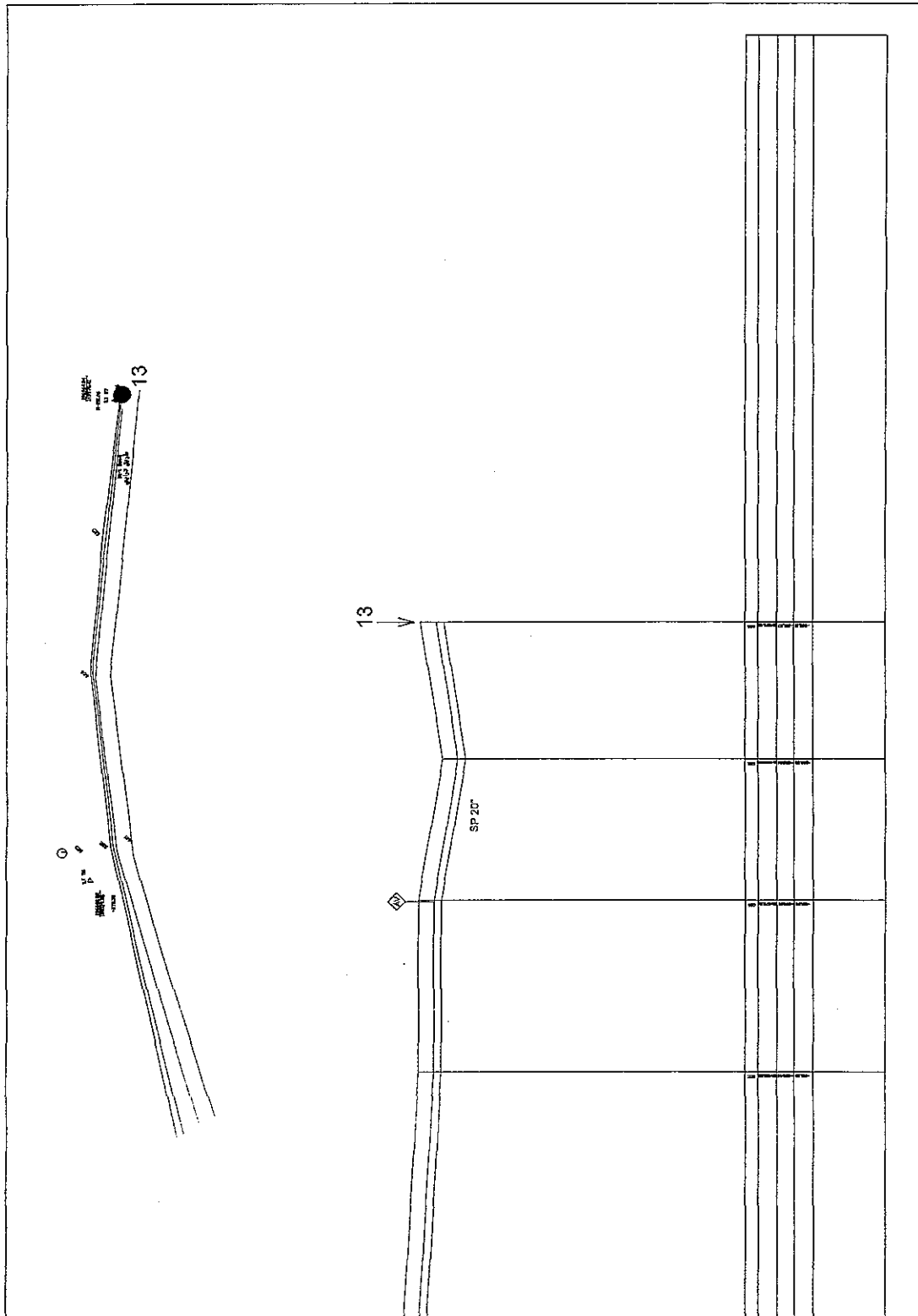
SHEET 27 OF 42  
 DWG SHEET NO. 28  
 DATE AUGUST, 2008  
 SCALE: HORIZONTAL: VERTICAL

CONVEYANCE SYSTEM IN ALJIA  
 PLAN & PROFILE



**NIPPON KOEI CO., LTD.**

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY



PROF. NO.			
DATE			
DESIGN LEVEL			
PROJECT NAME			

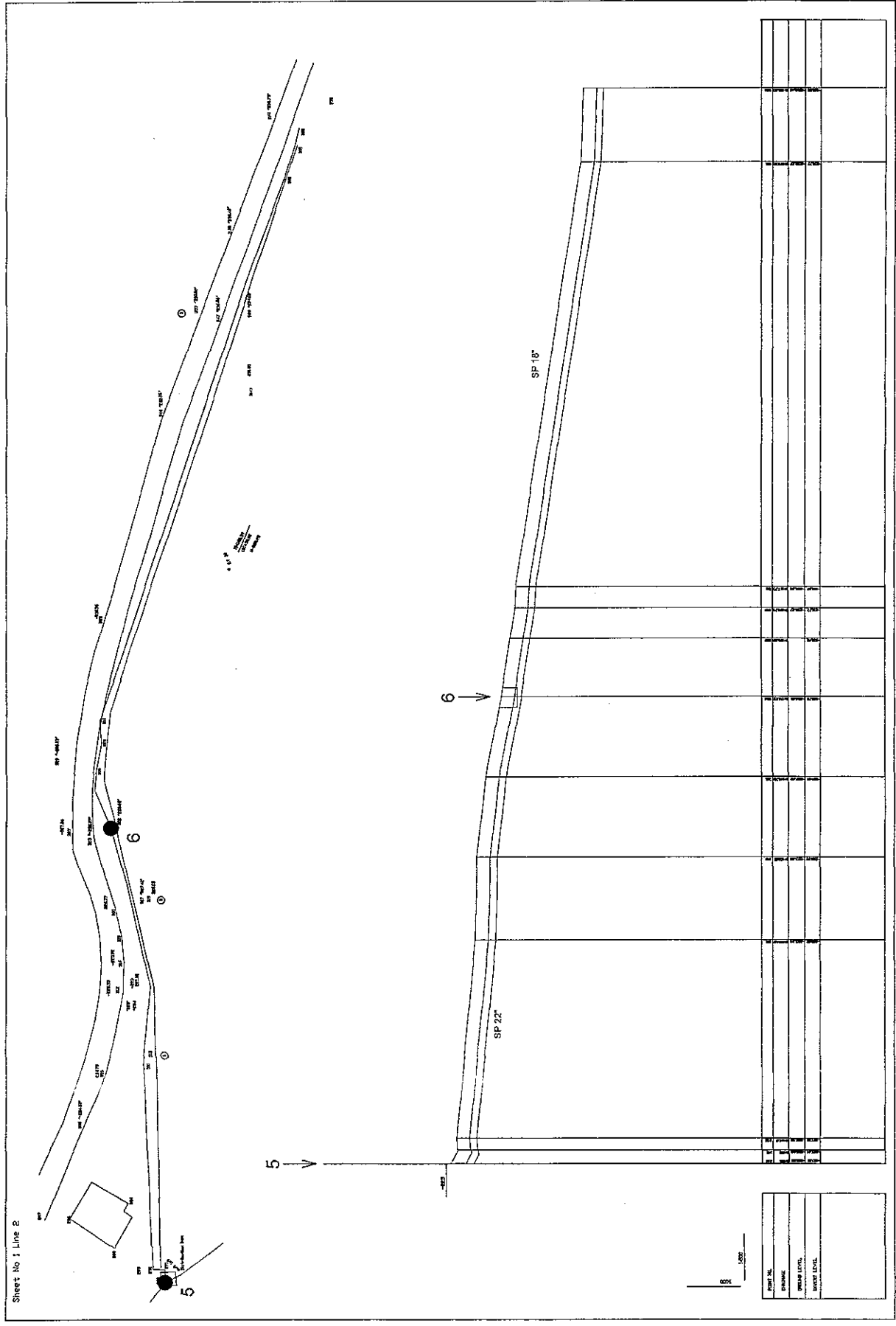
SHEET 28 OF 42  
 DWG SHEET NO. 28  
 DATE AUGUST, 2008  
 SCALE: H:1:500 V:1:100

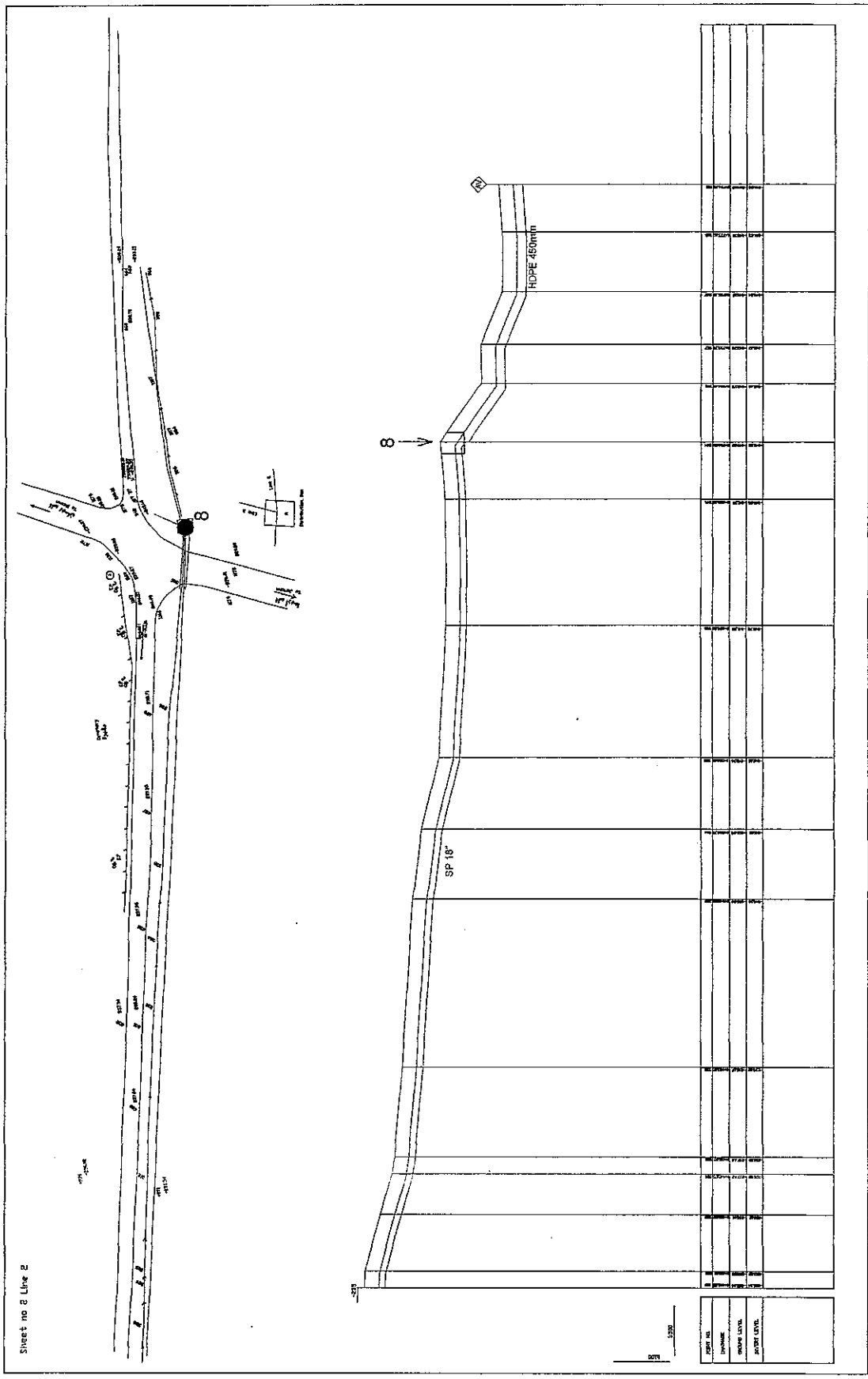
CONVEYANCE SYSTEM IN AUJA  
 PLAN & PROFILE



NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY



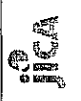


Sheet no 2 Line 2

PROJECT NO.	
DATE	
SCALE	
DESIGNER	
CHECKER	
APPROVER	

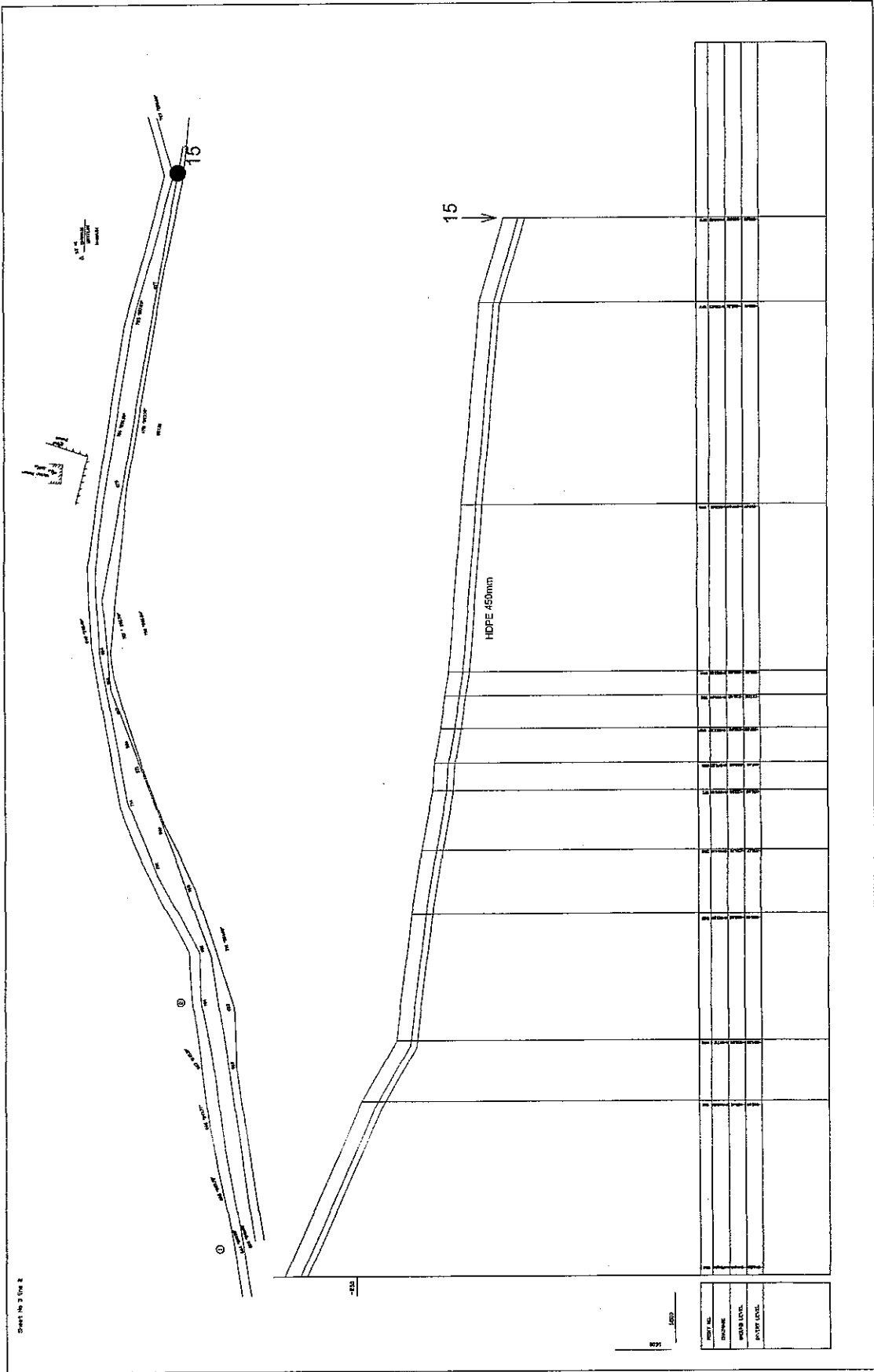
SHEET 30 OF 42  
 DWG SHEET NO. 2 LINE 2  
 DATE AUGUST 2008  
 SCALE: 1:1500 V.H:100

CONVEYANCE SYSTEM IN ALJJA  
 PLAN & PROFILE



NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY



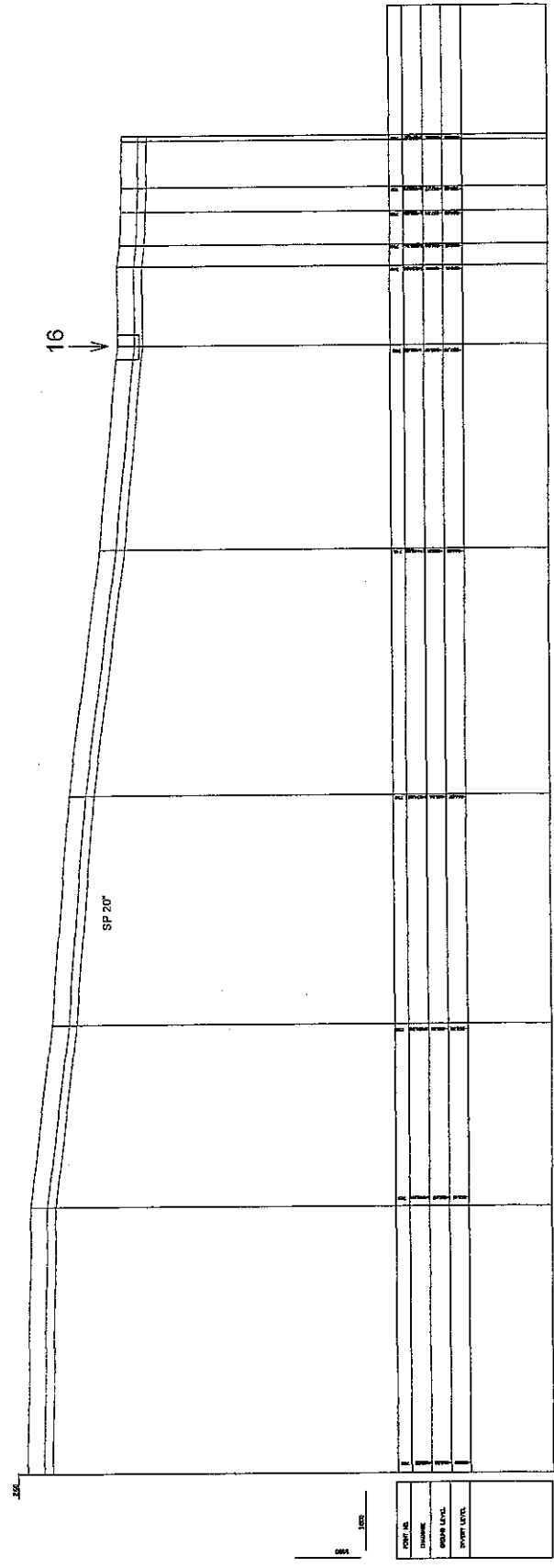
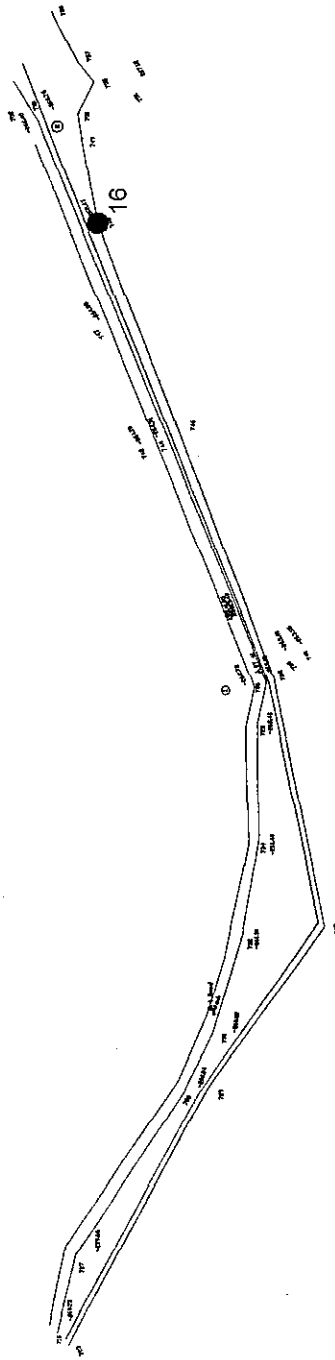
SHEET 31 OF 42  
 DWG SHEET NO. 3 LINE 2  
 DATE: AUGUST, 2008  
 SCALE: 1:1500 VERTICAL

CONVEYANCE SYSTEM IN AUJA  
 PLAN & PROFILE



**NIPPON KOEI CO., LTD.**

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY



DATE	
ENGINEER	
DRAWN BY	
CHECKED BY	
APPROVED BY	

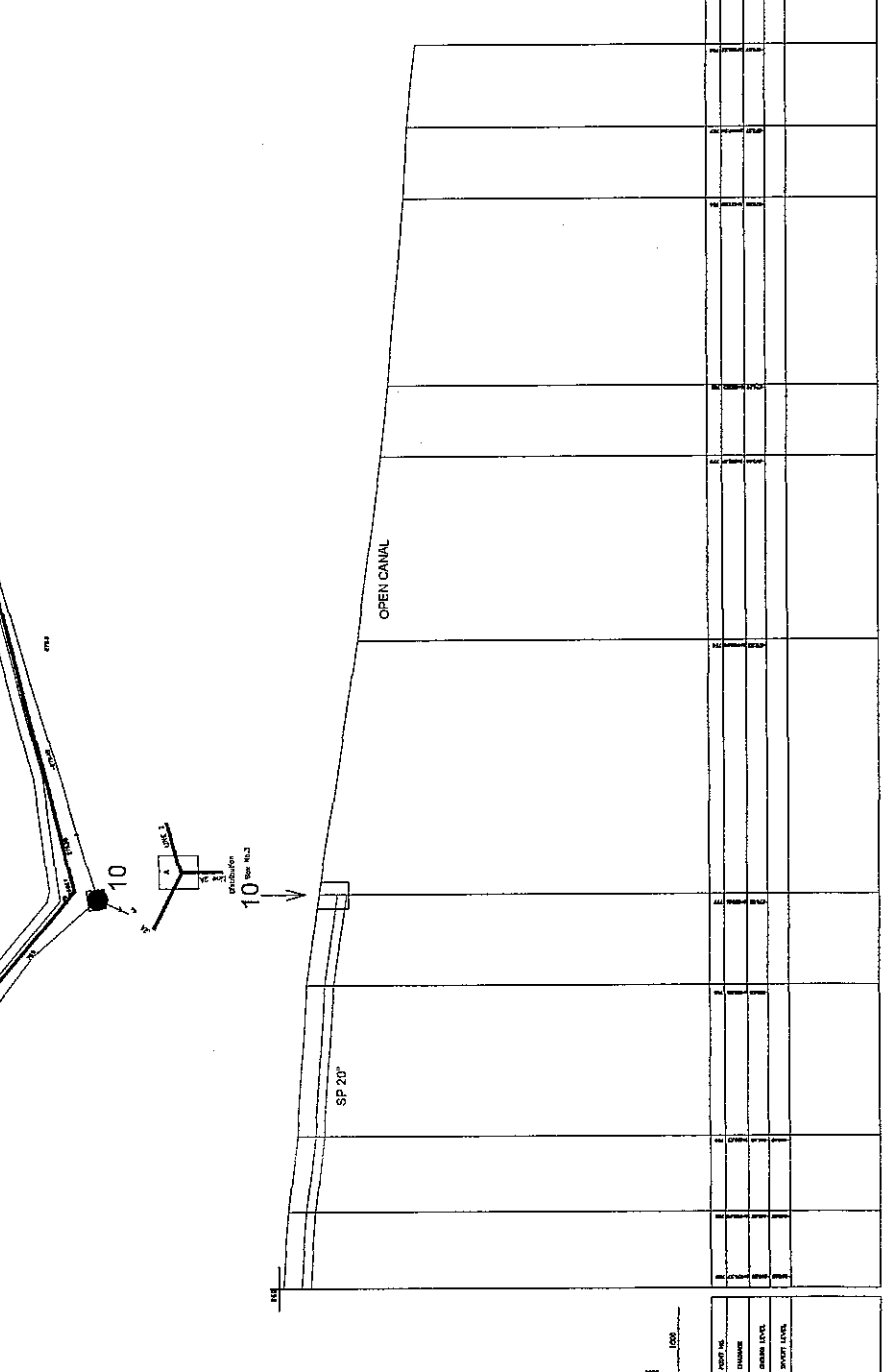
SHEET 32 OF 42  
 DIVISION NO. 4 LINE 2  
 DATE AUGUST 2008  
 SCALE: HORIZONTAL 1"=100'

CONVEYANCE SYSTEM IN ALJIA  
 PLAN & PROFILE



NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY



SHEET NUMBER 5  
LINE 2

DATE	
DESIGNER	
CHECKER	
APPROVED	
SCALE	

SHEET 33 OF 42  
DWG SHEET NO. 5 LINE 2  
DATE AUGUST, 2008  
SCALE: H1500 V1100

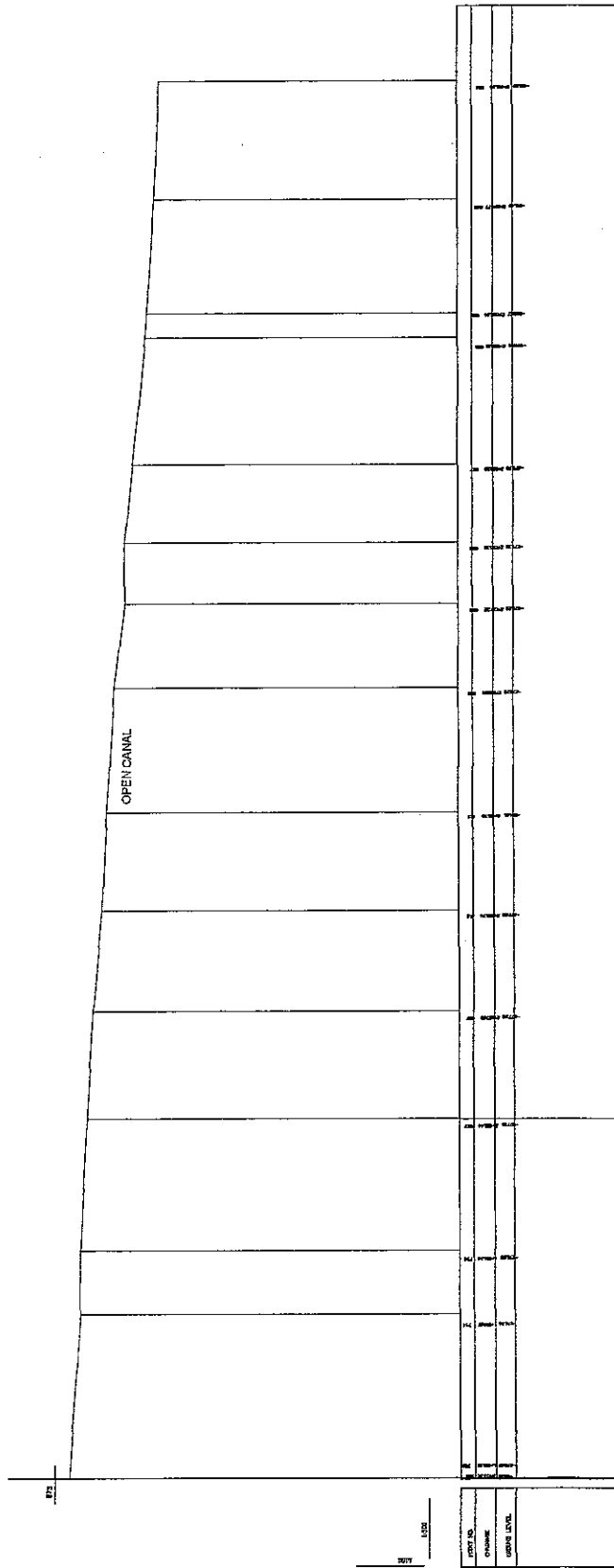
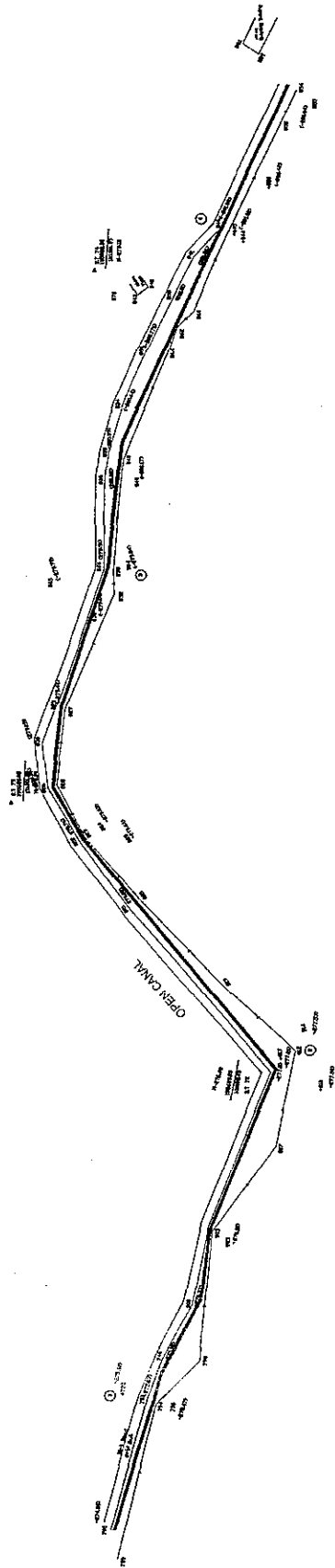
CONVEYANCE SYSTEM IN ALJJA  
PLAN & PROFILE



NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY

SHEET NUMBER 6 LINE 2



SHEET 34 OF 42  
DWG SHEET NO. 6 LINE 2  
DATE AUGUST, 2008  
SCALE 1:1000 1/1100

CONVEYANCE SYSTEM IN ALJJA  
PLAN & PROFILE

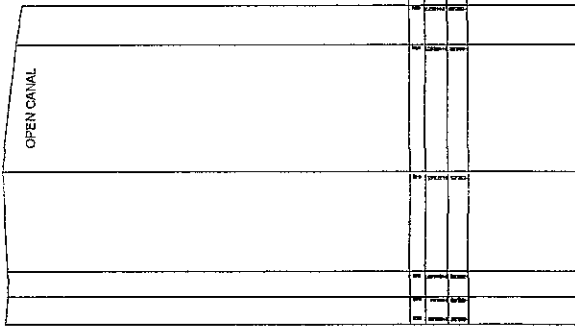


NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY



200



0 1:500

PROJECT NO.	
DATE	
SCALE	

SHEET 35 OF 42  
 DWG SHEET NO. 6 LINE 2  
 DATE AUGUST, 2008  
 SCALE: 1:1500 VTI:00

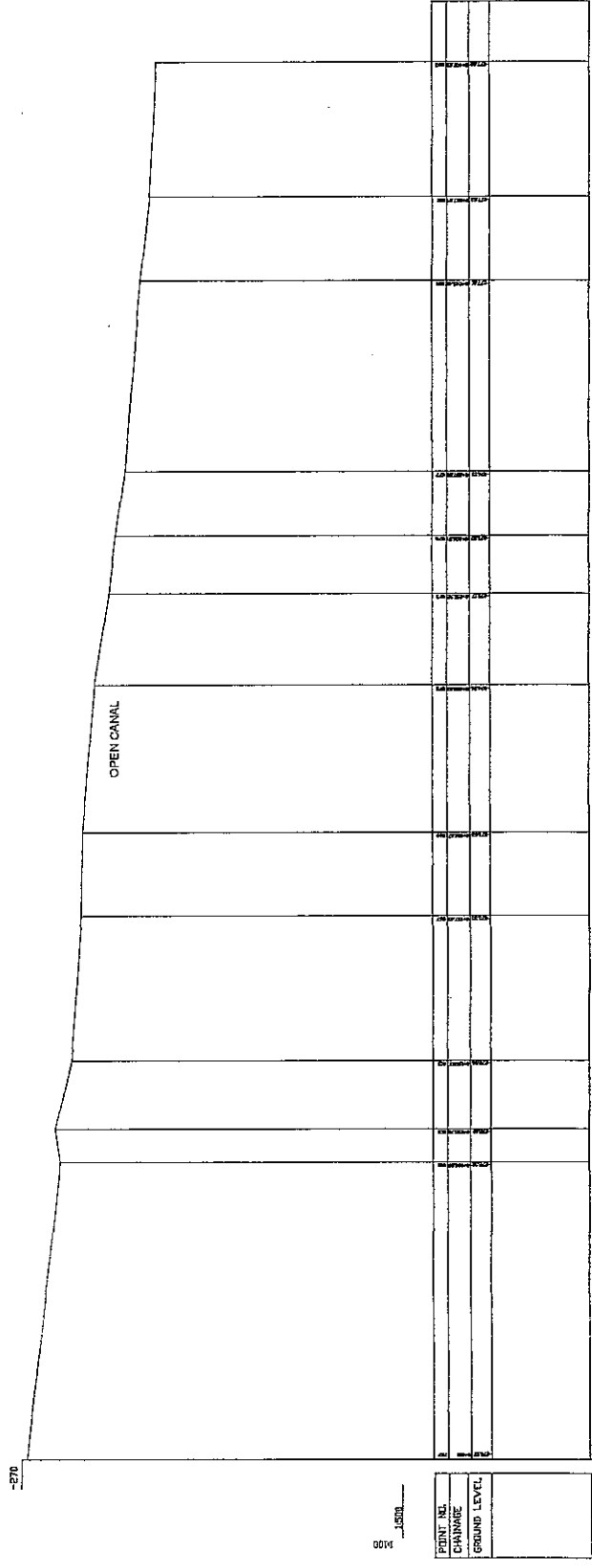
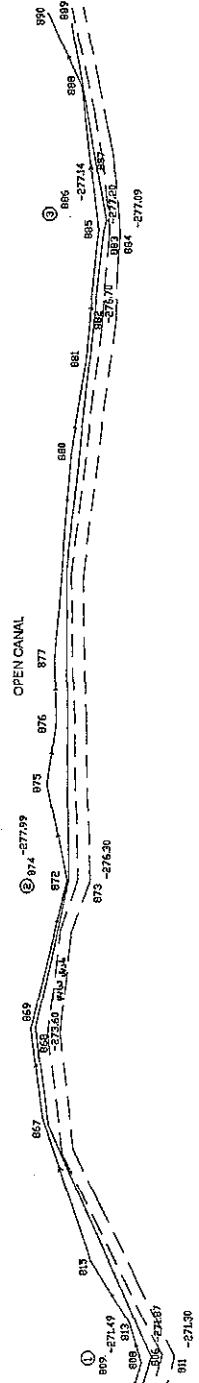
CONVEYANCE SYSTEM IN AUJA  
 PLAN & PROFILE



**NIPPON KOEI CO., LTD.**

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY

SHEET NO. 1 LINE B-A  
 EREN DISTRIBUTION  
 S.W. NO. 3  
 797



SHEET 38 OF 42  
 DWG SHEET NO. 1 LINE 2A  
 DATE AUGUST, 2008  
 SCALE: H:1:500 V:1:100

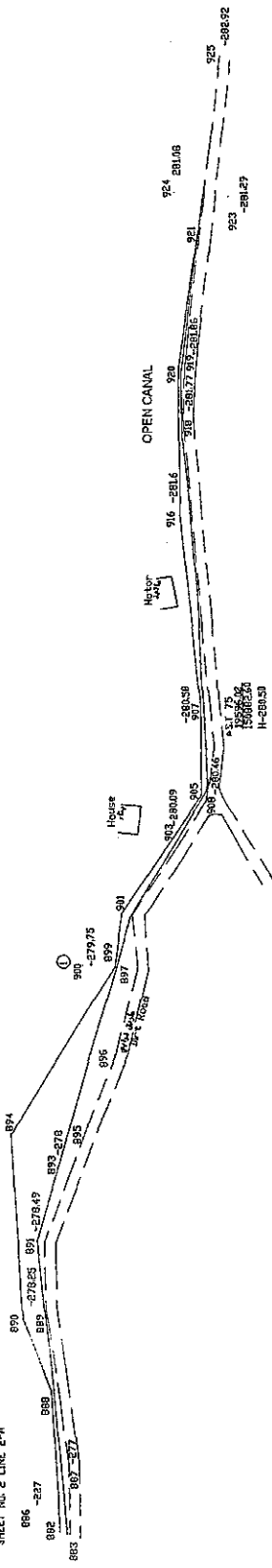
CONVEYANCE SYSTEM IN ALJJA  
 PLAN & PROFILE



**NIPPON KOEI CO., LTD.**

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY

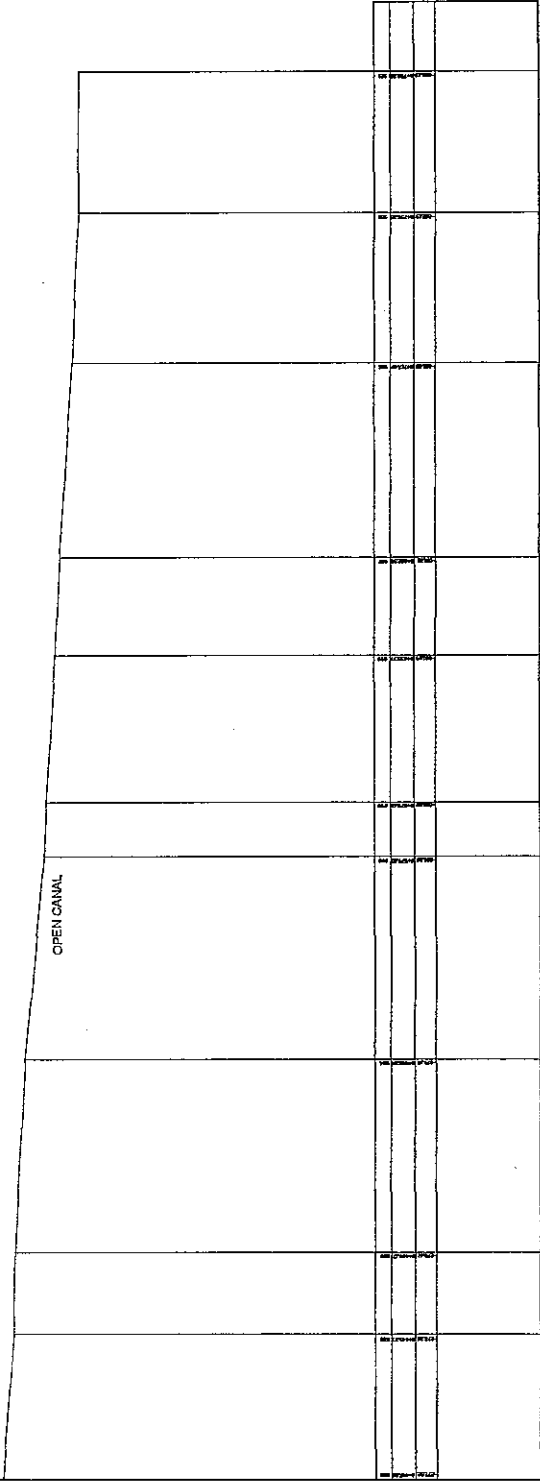
SHEET NO. 2 LINE 2-A



-275



POINT REL	
CHANGE	
GROUND LEVEL	



SHEET 37 OF 42  
DWG SHEET NO.2 LINE 2A  
DATE AUGUST 2008  
SCALE: H=300 V=100

CONVEYANCE SYSTEM IN ALJJA  
PLAN & PROFILE

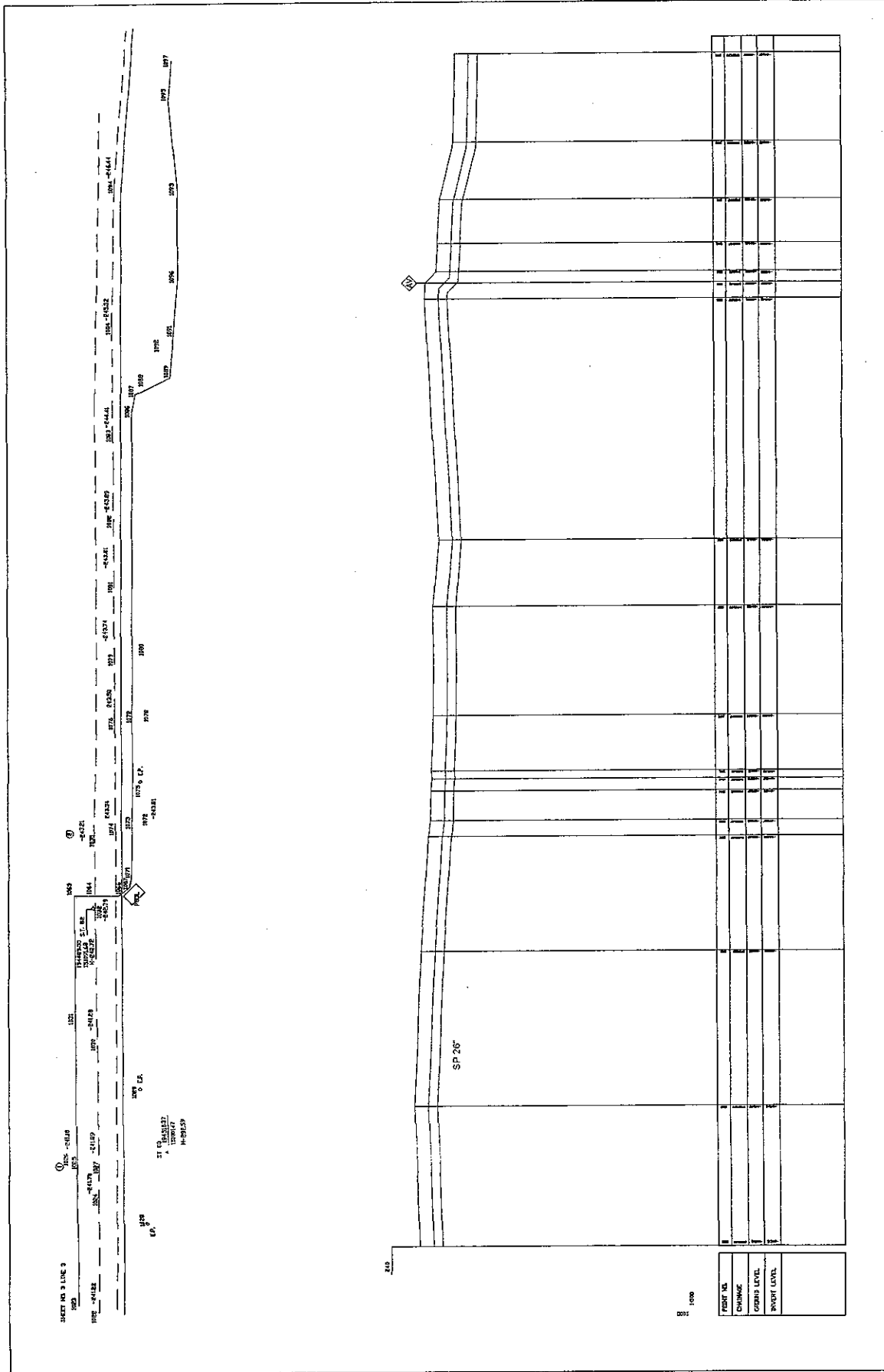


NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
IN THE JORDAN RIVER RIFT VALLEY







SHEET NO. 3 LINE 3  
 100+00 101+00 102+00 103+00 104+00 105+00 106+00 107+00

ST. 02  
 100+00  
 101+00  
 102+00

SP 26

FRONT VIEW
CHANGE
GROUND LEVEL
PROPOSED LEVEL

SHEET 40 OF 42  
 DWG SHEET NO.3 LINE 3  
 DATE AUGUST, 2008  
 SCALE: H1500 V1100

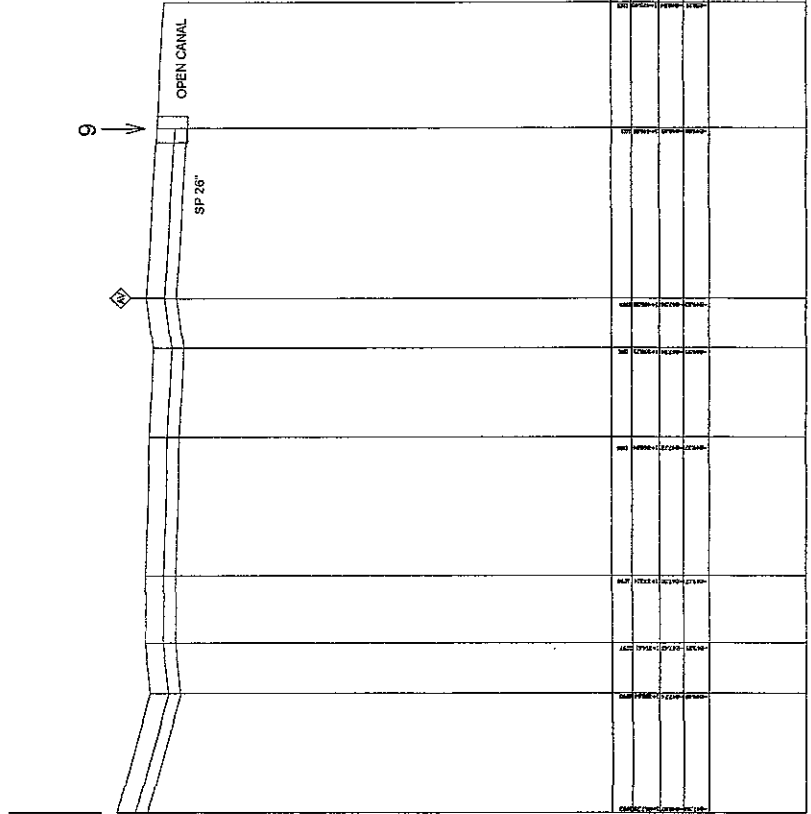
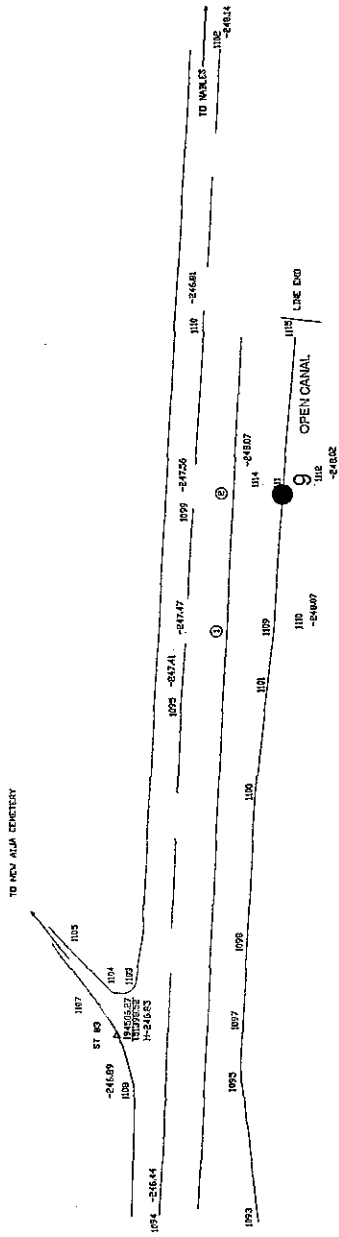
CONVEYANCE SYSTEM IN ALJJA  
 PLAN & PROFILE



NIPPON KOEI CO., LTD.

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY

SHEET NO.4 LINE 3



1000

POINT NO.	
CHANCE	
GROUND LEVEL	
INVERT LEVEL	

SHEET 41 OF 42  
 Dwg SHEET NO.4 LINE 3  
 DATE AUGUST, 2008  
 SCALE 1:1000 V:1:100

CONVEYANCE SYSTEM IN ALJA  
 PLAN & PROFILE



**NIPPON KOEI CO., LTD.**

THE FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT AND MANAGEMENT  
 IN THE JORDAN RIVER RIFT VALLEY

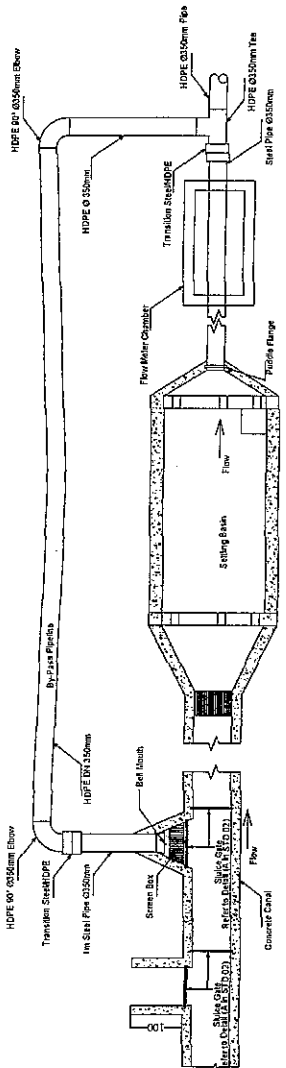
*Standard Structure Details*



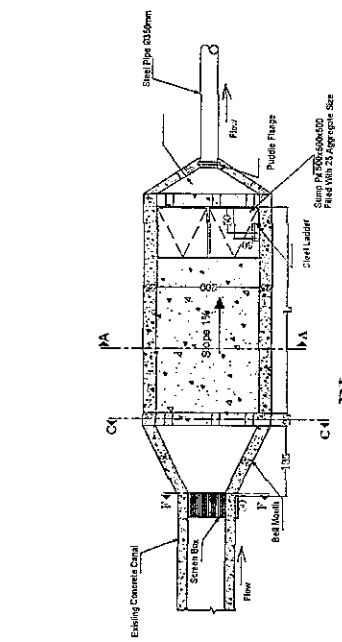
**Notes:**

- All Dimensions are in centimeter unless otherwise indicated.
- Design compressive strength of concrete used in all reinforced concrete (F'c) shall be 25N/mm<sup>2</sup> at 28 days. Strength test for concrete shall be made in accordance with "method of test for cylinder" ASTM C39.
- Design compressive strength of lean concrete bedding shall be 15N/mm<sup>2</sup>.
- All reinforcing steel bar used (φ) shall be deformed with a minimum yield point strength of 420N/mm<sup>2</sup> and shall conform to ASTM specifications A615 or to BS4449 or BS4461.
- Minimum gross bearing capacity of soil (q<sub>ult</sub>) shall not be less than 25N/m<sup>2</sup>. If otherwise, revision shall be made.
- All footing walls shall be isolated with 2 lbs applied loads.
- Based on the setting basin surveyed level, the Contractor should submit shop drawing for the setting basin level (inter, outer, connections to adjacent structure) with all concrete details for Engineer approval.

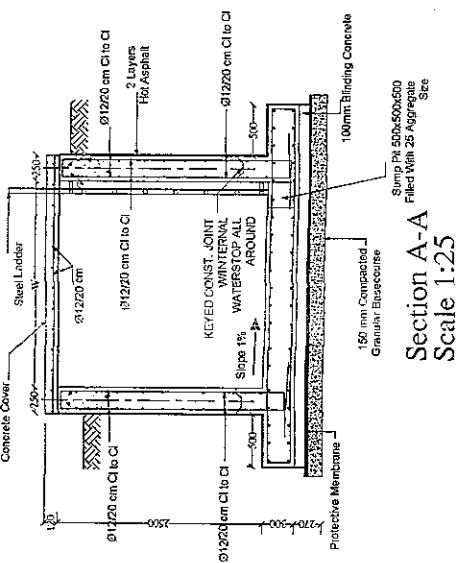
Client		NIPPON KOEI CO., LTD.	
Contract No.		E E T I 0 1 0 1 1	
Project Name		JICA	
Project Description		Project for Improvement of Wastewater Spilling Concrete System	
Drawing Title		Setting Basin Details	
Scale	1:50 (A1)	Project No.	11
Date	August 2008	Design	N. U.
Project No.	SD-01	Contract	E. S. K.



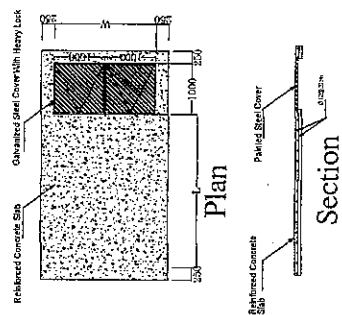
Details for By Pass with Setting Basin  
Scale 1:50



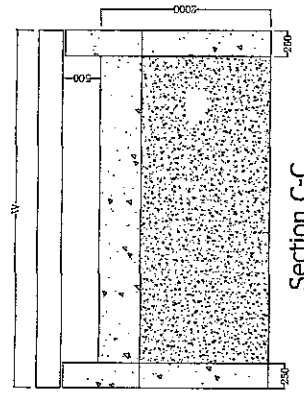
Plan  
Scale 1:50



Section A-A  
Scale 1:25

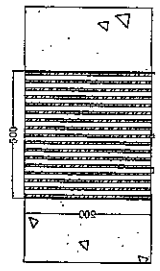


Details for Setting Basin Concrete Cover



Section C-C  
1:25


SITE	L (mm)	W (mm)
AL DYUK	6,000	3,000
AL AUJA	8,000	4,000

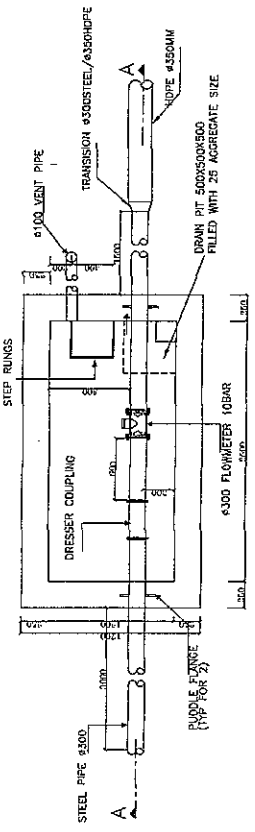


Section F-F  
1:10

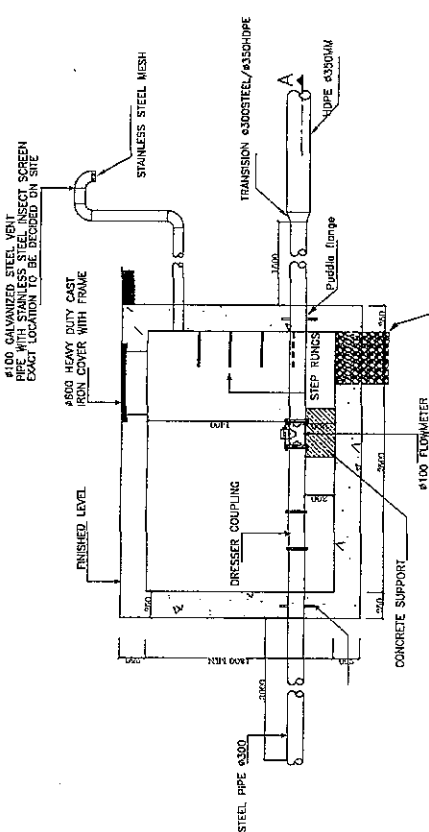
**NOTE**

1. All Dimensions are in millimeter unless otherwise indicated.
2. Design compressive strength of concrete used in chambers (C) shall be minimum at 28 days. Strength shall be determined in accordance with "method of test for compressive strength of casted concrete cylinders" ASTM C39.
3. Design compressive strength of bent concrete slabs shall be 15N/mm<sup>2</sup>.
4. All reinforcing steel bars used (R) shall be deformed with a minimum yield point strength of 235N/mm<sup>2</sup> and shall conform to ASTM specifications A615 or to BS4449 or BS4461.
5. Minimum gross bearing capacity of soil (q<sub>ult</sub>) shall not be less than 35N/m<sup>2</sup>. If otherwise, revision shall be made.
7. Exact location of chambers should be subjected to Engineer's approval.

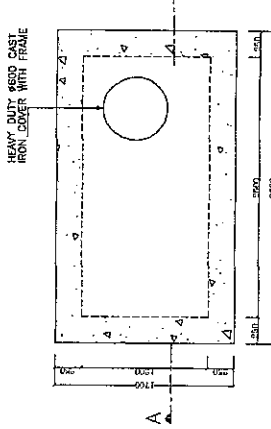
DATE		REVISION	
NIPPON KOEI CO., LTD.			
			
Project Name: Nanyang Spring Contraception System			
Drawing No: Standard Detail			
Drawing Title: Flowmeter Chamber Details			
Scale: 1/15	Rev: 1	Date: April, 2008	Drawn by: [Blank]
Drawing No: STD 02		Checked by: [Blank]	



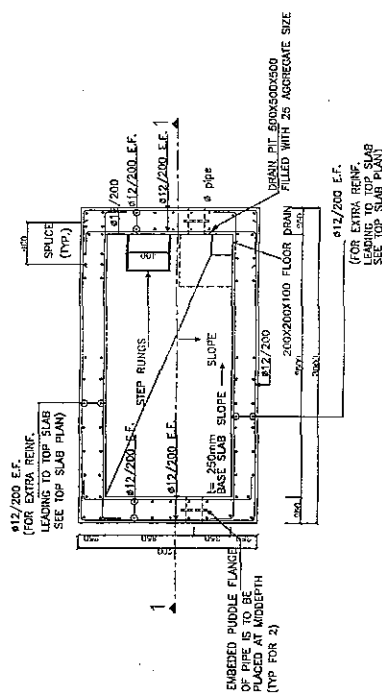
**FLOWMETER CHAMBER SECTIONAL PLAN**



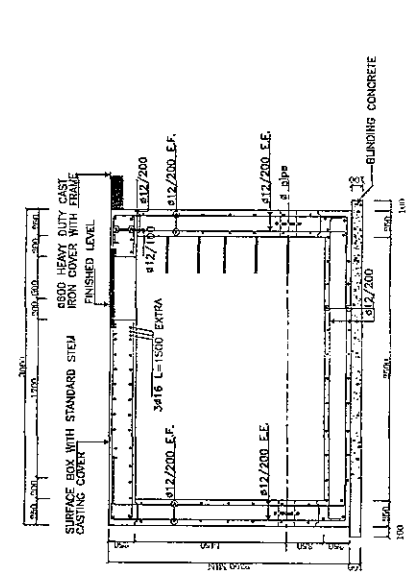
**FLOWMETER CHAMBER SECTION A-A**



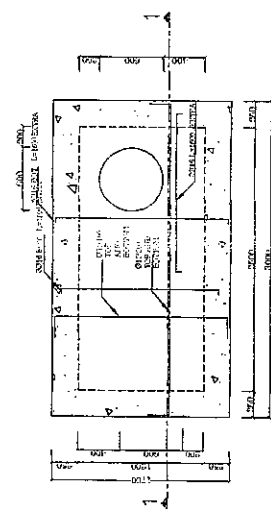
**FLOWMETER CHAMBER TOP VIEW**



**FLOWMETER CHAMBER SECTIONAL PLAN**



**FLOWMETER CHAMBER SECTION 1-1**

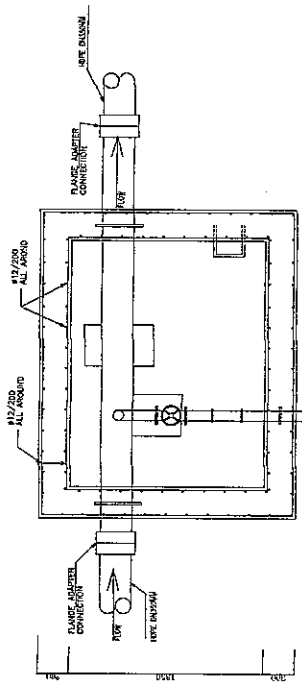


**FLOWMETER CHAMBER TOP VIEW**

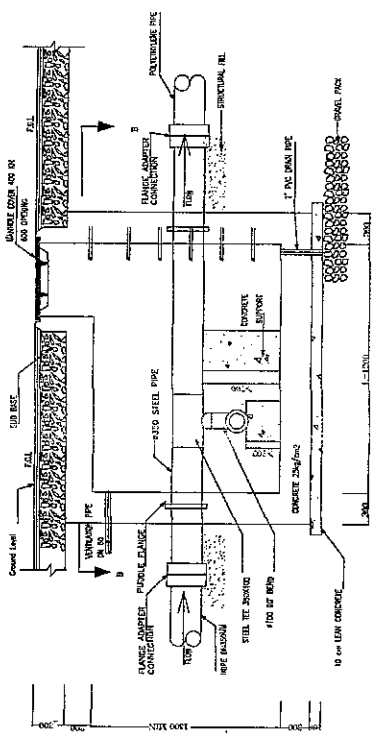
NOTE: RUNGS TO BE SPACED AT 30cm TYP.

**Notes:**

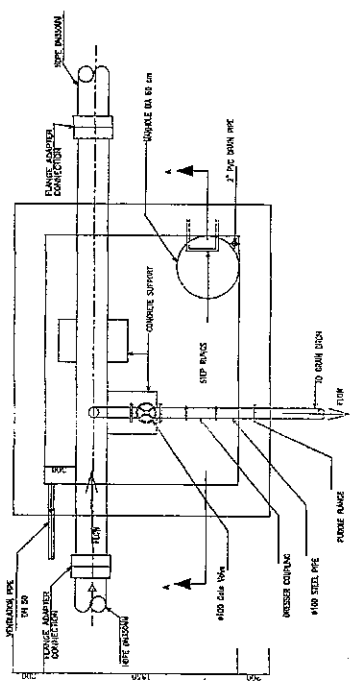
1. All Dimensions are in millimeter unless otherwise indicated.
2. Design compressive strength of concrete used in all reinforced concrete (C<sub>c</sub>) shall be 25N/mm<sup>2</sup> in 28 days. Strength tests for concrete shall be made in accordance with method of test for concrete strength of reinforced concrete cylinders ASTM C39.
3. Design compressive strength of lean concrete building shall be 15N/mm<sup>2</sup>.
4. All reinforcing steel bars used (R<sub>s</sub>) shall be deformed with a minimum yield point strength of 420N/mm<sup>2</sup> and shall conform to ASTM specifications A615 or to BS4449 or BS4461.
5. Minimum gross bearing capacity of soil (q<sub>all</sub>) shall be 1.0 kg/cm<sup>2</sup>. If otherwise, revision shall be made.
6. The washout direction and length will be determined on site upon the Engineer's approval.



STRUCTURAL DETAIL (PLAN)



SECTION A-A



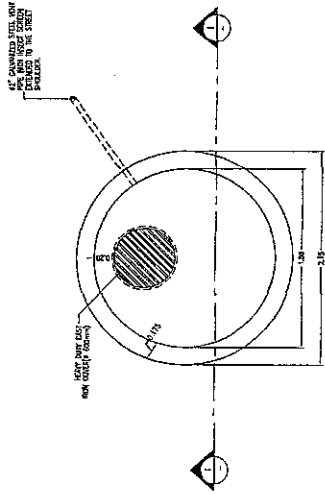
SECTION B-B  
WASHOUT  
WITH CONCRETE CHAMBER

DATE		REVISIONS	
NO.	DATE	BY	CHKD.
NIPPON KOEI CO., LTD. 			
Project Name: Plant Project for Improvement of Wastewater Recycling Efficiency System			
Drawing No:			
Drawing Details: Washout Details			
Scale: NIS		Design:	
Date: August, 2008		Drawing:	
Drawing No.: STD-03			

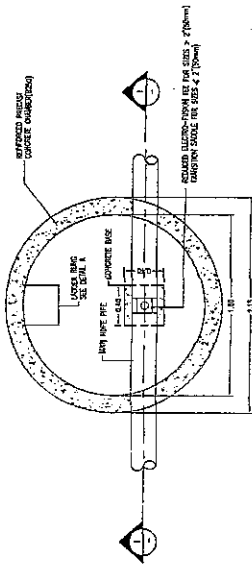
NOTES:

1) DIMENSIONS OF CHAMBER MAY BE INCREASED ACCORDING TO THE APPROVED VALVES WITHOUT EXTRA COST TO THE GOVT.

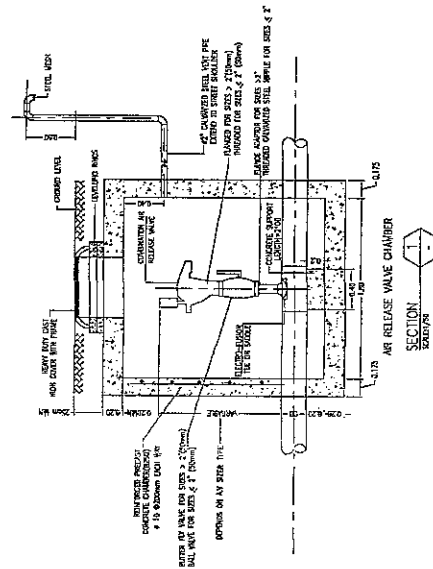
2) ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDICATED.



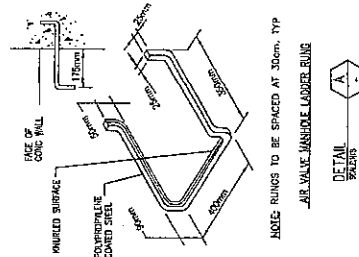
AIR RELEASE VALVE CHAMBER  
ROUND - PLAN  
SAL/7/78



AIR RELEASE VALVE CHAMBER  
PLAN  
SAL/7/78



AIR RELEASE VALVE CHAMBER  
SECTION  
SAL/7/78

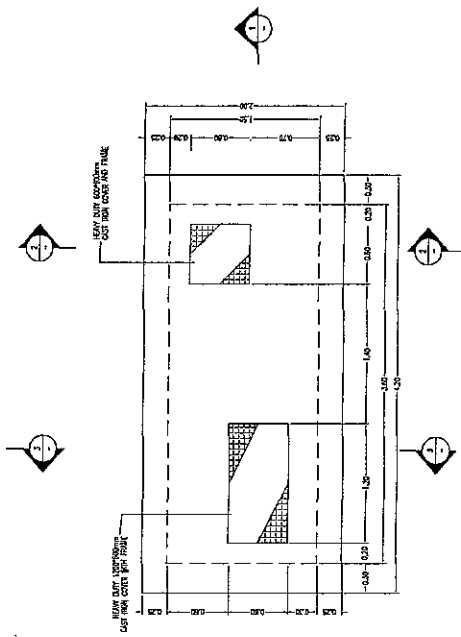


AIR VALVE HANDMADE LADDER RING  
DETAIL  
SECTION  
A-A

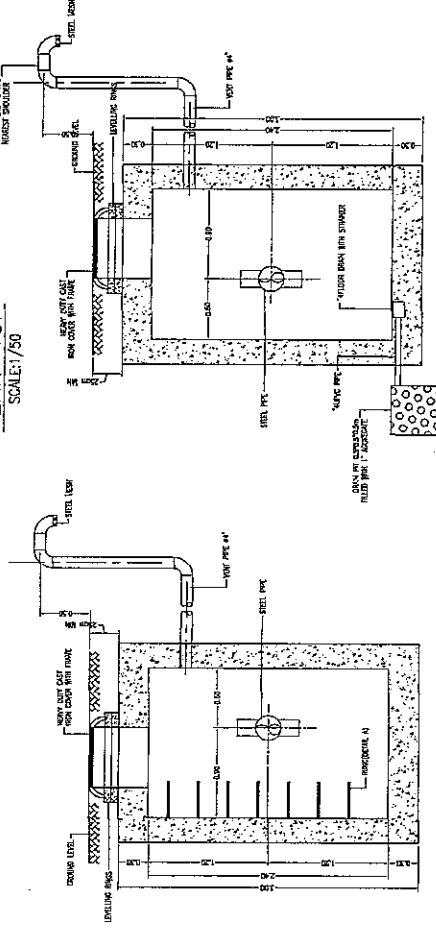
REV.		DESCRIPTION
1	1	ISSUED

NIPPON KOEI CO., LTD.  
jica

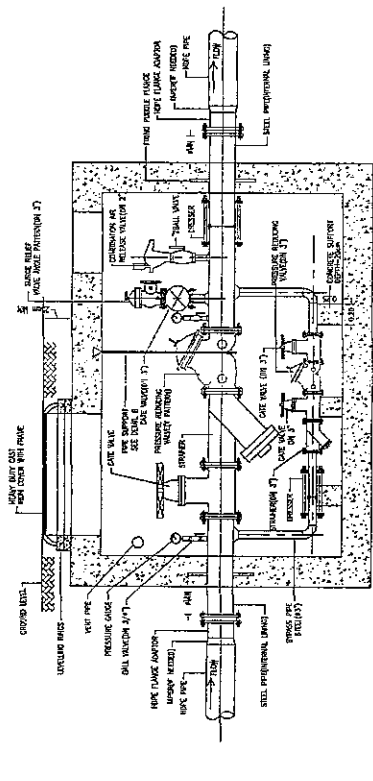
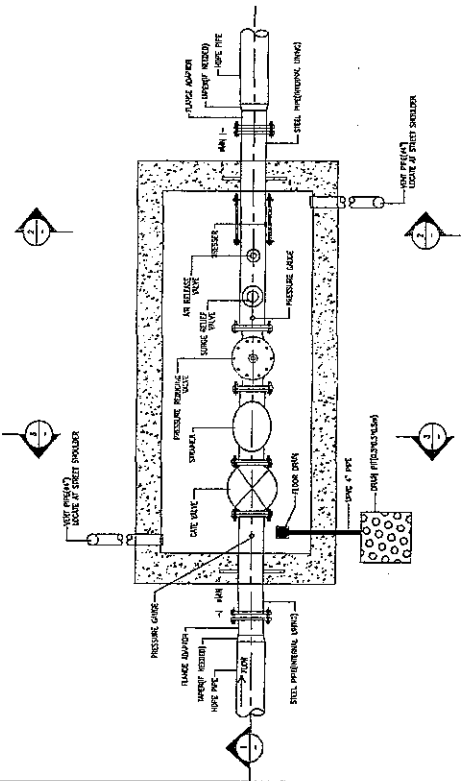
IRRIGATION SYSTEM IN THE VILLAGE  
OF NUWEHET-JORDAN VALLEY  
AIR RELEASE VALVES - GATE VALVES  
MECHANICAL PLANS/DRAWINGS  
Scale : as shown  
Design :  
Date : August, 2003  
Drawing No. : STD 04  
Drawing :  
Checking :





PLAN-TOP  
SCALE: 1/50



PLAN-SECTION  
SCALE: 1/50



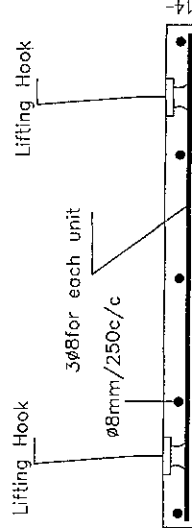
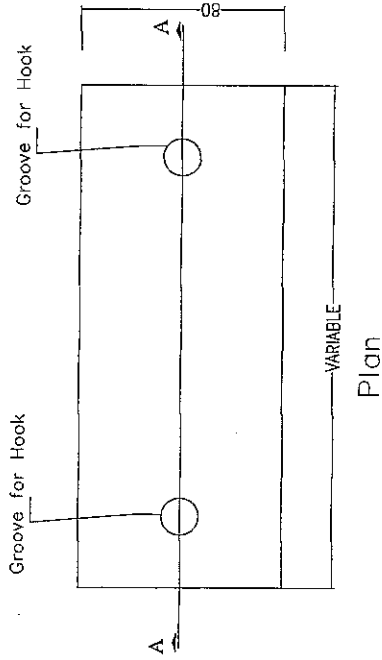
Legend:

-  Existing Canal
-  New Work

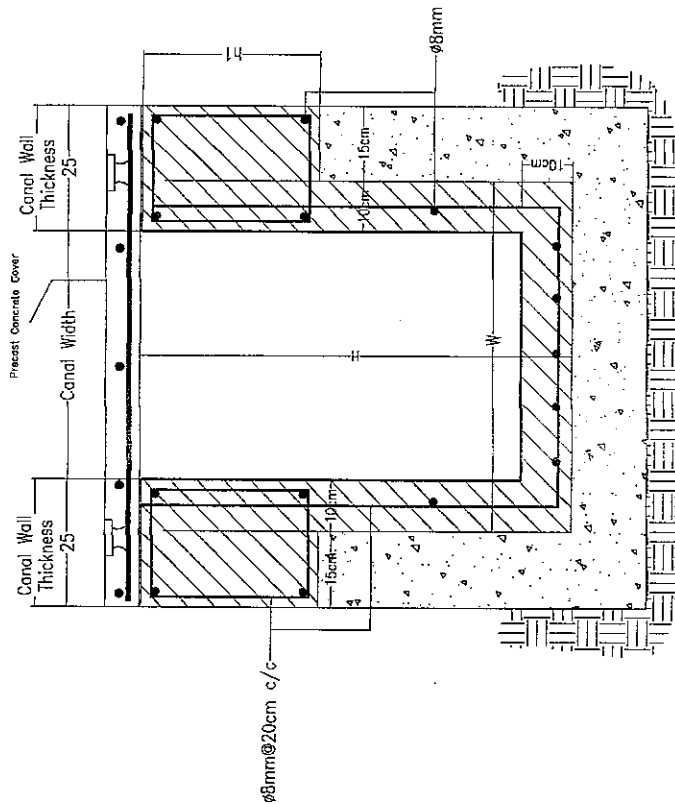
Notes:

1. The Contractor should submit shop drawings including for Engineer approval prior construction.

2. The variable high of the concrete canal raise should be determined by calculating the volume of water in the canal. The new cross section volume in such way that the new cross section should be bigger than the initial cross section.



SECTION A-A  
TYPICAL PRECAST REINFORCED CONCRETE COVER DETAIL



No.	REV.	DATE	BY	CHKD.

Client  
NIPPON KOEIKO, LTD.  
**ica**

Project Name	Project for Improvement of Newark Spring Canals System
Drawing Title	Typical Cover Section For Type (A, B, C)
Scale	1/5
Date	April, 2008
Drawn by	
Checked by	
Drawing No.	SD 08