



**LEGEND:**

- MUNICIPAL BOUNDARY
- WARD BOUNDARY
- ROAD
- ++++ RAILWAY LINE
- RIVER
- NALA
- PROPOSED NEW TRUNK SEWER
- RISING MAIN
- REHABILITATION EXISTING SEWER
- CATCHMENT BOUNDARY
- ⊙ EXISTING PUMPING STATION
- ⊙ PROPOSED PUMPING STATION
- ▨ EXISTING STP
- ▨ PROPOSED STPs
- RTS 123 NODE NUMBER
- FSA131 FUTURE SERVICE AREA

**REFERENCE DRAWING :**

- 1) BASE MAP WITH SEWERAGE ZONES LKO-BASE MAP-1
- 2) KEY PLAN LKO-KEY-1

INST.					
ELEC.					
MECH.					
STRU.					
CIVIL					
REV NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

CHECKED BY:		APPROVED BY:	
SAURABH MISRA		V.N.SONTAKKE	
DRAWN	H.S.PAWAR	SCALE	1:50000
DESIGNED		DATE	24-12-2004
SURVEYED	VERMA		

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY

CONSULTANTS:

- TOKYO ENGINEERING CONSULTANTS CO., LTD.
- CTI ENGINEERING INTERNATIONAL CO., LTD.
- MWH INDIA PRIVATE LIMITED

PROJECT:  
 THE STUDY ON  
 WATER QUALITY MANAGEMENT PLAN  
 FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR LUCKNOW CITY

SHEET CONTENTS:  
 BASE MAP WITH WARD BOUNDRIES AND  
 PROPOSED PRIORITY PROJECTS

DRAWING NO.	LKO-BASE MAP-2	SR. NO.	2
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**LEGEND:**

- MUNICIPAL BOUNDARY
- ROAD
- RAILWAY LINE
- RIVER
- NALA
- PROPOSED NEW TRUNK SEWER
- RISING MAIN
- REHABILITATION EXISTING SEWER
- EXISTING PUMPING STATION
- PROPOSED PUMPING STATION
- EXISTING STP
- PROPOSED STP
- CH 1234 CHAINAGE NUMBER
- FSA-131 FUTURE SERVICE AREA

**REFERENCE DRAWING :**

1) BASE MAP WITH SEWERAGE ZONES LKO-BASE MAP -1  
 2) BASE MAP WITH WARD BOUNDARIES AND PROPOSED PRIORITY PROJECTS LKO-BASE MAP -2

INST.					
ELEC.					
MECH.					
STRA.					
CIVL.					
REV. NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

CHECKED BY:		APPROVED BY:	
SALRABH MISHRA		V.N.SCHTAKKE	
DRAWN	H.S.PANWAR	SCALE	1:50000
DESIGNED		DATE	02-01-2005
SURVEYED	VERMA		

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY

**CONSULTANTS:**

- TOKYO ENGINEERING CONSULTANTS CO., LTD.
- CEI ENGINEERING INTERNATIONAL CO., LTD.
- SML ENGINEERING PRIVATE LIMITED

**PROJECT:**

THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR LUCKNOW CITY

**SHEET CONTENTS:**

KEY PLAN

DRAWING NO.	SR. NO.
LKO-KEY-1	3





NODE	PIPE	
	SIZE (mm)	LENGTH (mm)
RTS_N1 - RTS_N2	700	250
RTS_N2 - RTS_N3	700	300
RTS_N3 - RTS_N4	700	350
RTS_N4 - RTS_N5	1200	300
RTS_N5 - RTS_N6	1200	350
RTS_N6 - RTS_N7	1400	350
RTS_N7 - RTS_N8	1400	150
RTS_N8 - RTS_N9	1400	100
RTS_N9 - RTS_N10	1400	150
RTS_N10 - RTS_N11	1400	500
RTS_N11 - RTS_N12	1800	375
RTS_N12 - RTS_N13	1800	175
RTS_N13 - RTS_N14	1800	225
RTS_N14 - RTS_N15	1800	125
RTS_N15 - RTS_N16	1800	250
RTS_N16 - RTS_N17	1800	150
RTS_N17 - RTS_N18	1800	225
RTS_N18 - RTS_N19	1800	75
RTS_N19 - RTS_N20	1800	350
RTS_N20 - RTS_N21	1800	100
RTS_N21 - RTS_N22	1800	200
RTS_N22 - RTS_N23	1800	300
RTS_N23 - RTS_N24	1800	300
RTS_N24 - RTS_N25	2200	300
RTS_N25 - RTS_N26	2200	325
RTS_N26 - RTS_N27	2200	125
RTS_N27 - RTS_N28	2200	50
RTS_N28 - RTS_N29	2200	350
RTS_N29 - RTS_N30	2200	450
RTS_N30 - RTS_N31	2200	350
RTS_N31 - RTS_N32	2200	300
RTS_N32 - MP_FS	2200	50

**NOTES:-**

**LEGEND:-**

- RISING MAIN
- SEWER EXISTING
- DATCHMENT BOUNDARY
- SUB CATCHMENT BOUNDARY
- WARD BOUNDARY
- WARD NOS.
- PUMPING STATION
- FUTURE SERVIDE AREA
- NODE NUMBER
- PROPOSED STP

**REFERENCE DRG.NOS:-**

- 1.BASE MAP WITH SEWERAGE ZONES LKO-BASE MAP-1
- 2.BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS LKO-BASE MAP-2
- 3.KEY PLAN-1 LKO-BASE MAP-1

INST.					
ELEC.					
MECH.					
STRA.					
CIVL.					
REV. NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

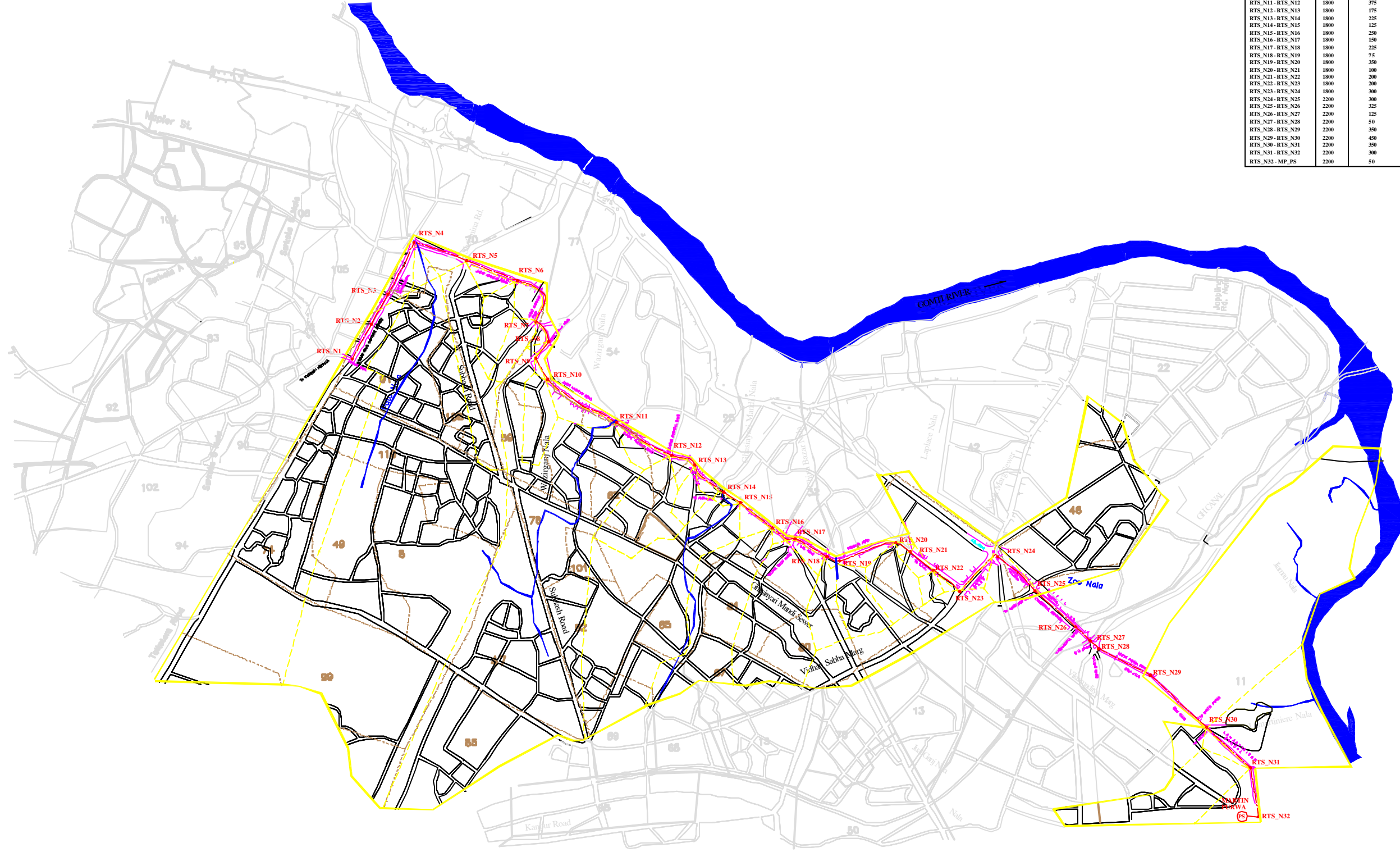
CHECKED BY:	APPROVED BY:
SAURABH NERFA	V.N.SONTHAKKE
DRAWN:	F.R.UJIAO
DESIGNED:	N.D.NAGVEKAR
BURVEYED:	VERMA
SCALE:	15000
DATE:	24/12/04

**JICA**  
 JAPAN INTERNATIONAL COOPERATION AGENCY

CONSULTANTS:

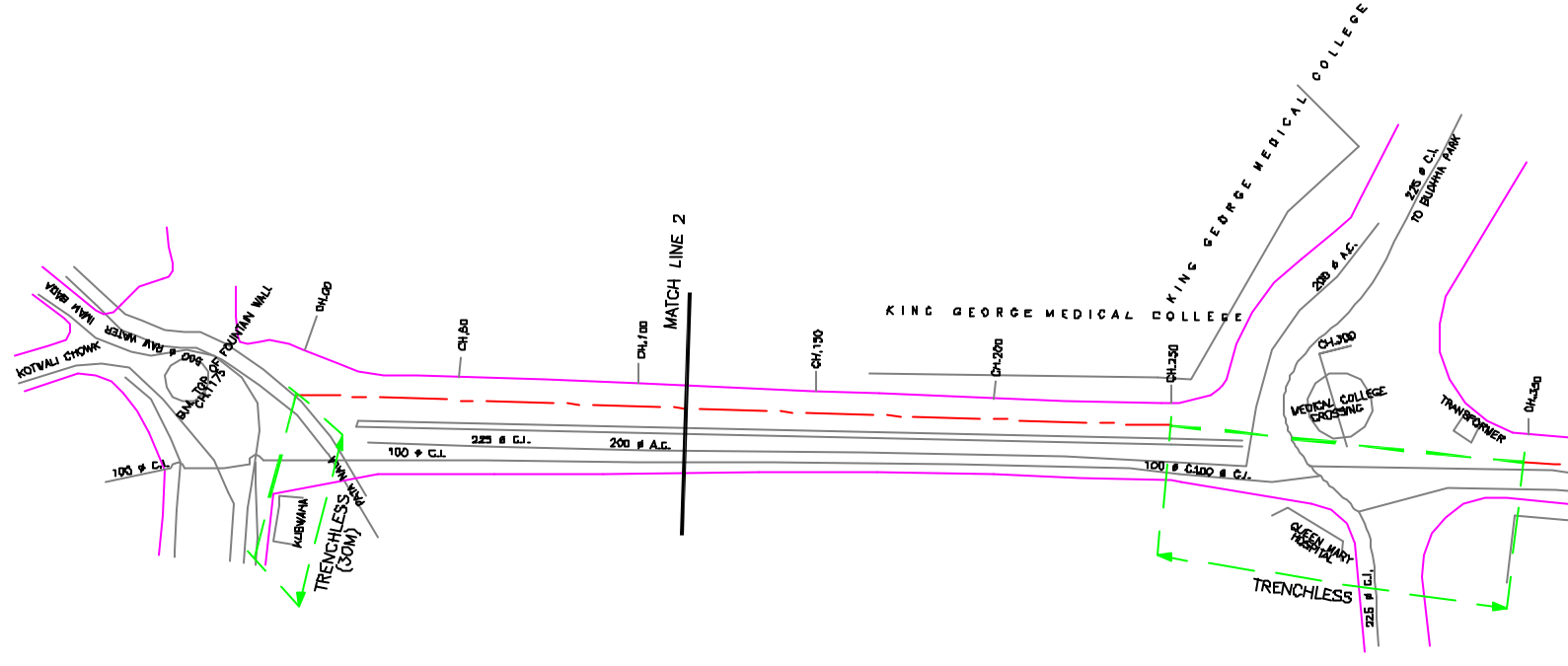
**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR LUCKNOW CITY

**SHEET CONTENTS:**  
 CATCHMENT AREA OF CIS GOMTI RELIEF SEWER

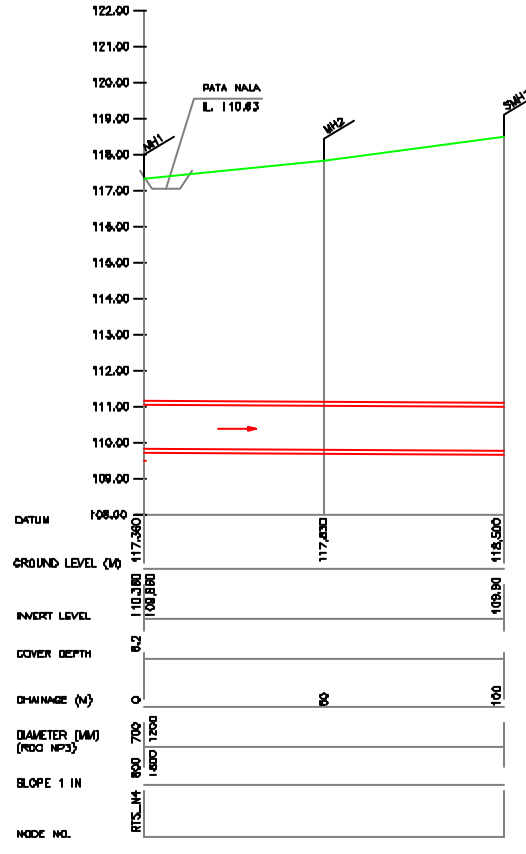




**NOTE:**  
1) ALL THE LEVELS ARE IN METERS.



**PLAN**  
SCALE: 1 : 1000



**L-SECTION**  
SCALE: HOR. 1 : 1000, VER. 1 : 100

**LEGEND**

TRENCHLESS	---
PROPOSED SEWER LINE	---
ROAD	---
RAILWAY LINE	---
BORE HOLE	---
ELECTRICAL POLE	---
PLOT BOUNDARY	---
BUILDING	---
TEMPLE	---
BRIDGE / CULVERT	---
ROAD DIVIDER	---
MOBILE	---
SPOT LEVEL	---
NALLA	---
TEMPORARY BEANCH MARK	---
ORDINARY MANHOLE	MH
SCRAPER MANHOLE	SMH
VENT SHAFT	VS

- REFERENCE DRAWING :**
- 1) BASEMAP WITH SEWERAGE ZONES LKD-BASE MAP-1
  - 2) BASEMAP WITH WARD BOUNDRIES AND PROPOSED PRIORITY PROJECTS LKD-BASE MAP-2
  - 3) KEY PLAN LKD-KEY-1
  - 4) CATCHMENT AREA OF CIS GOMTI RELIEF SEWER LKD-CA-RTS

INST.					
ELEC.					
MECH.					
STRA.					
CIVIL					
REV. NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

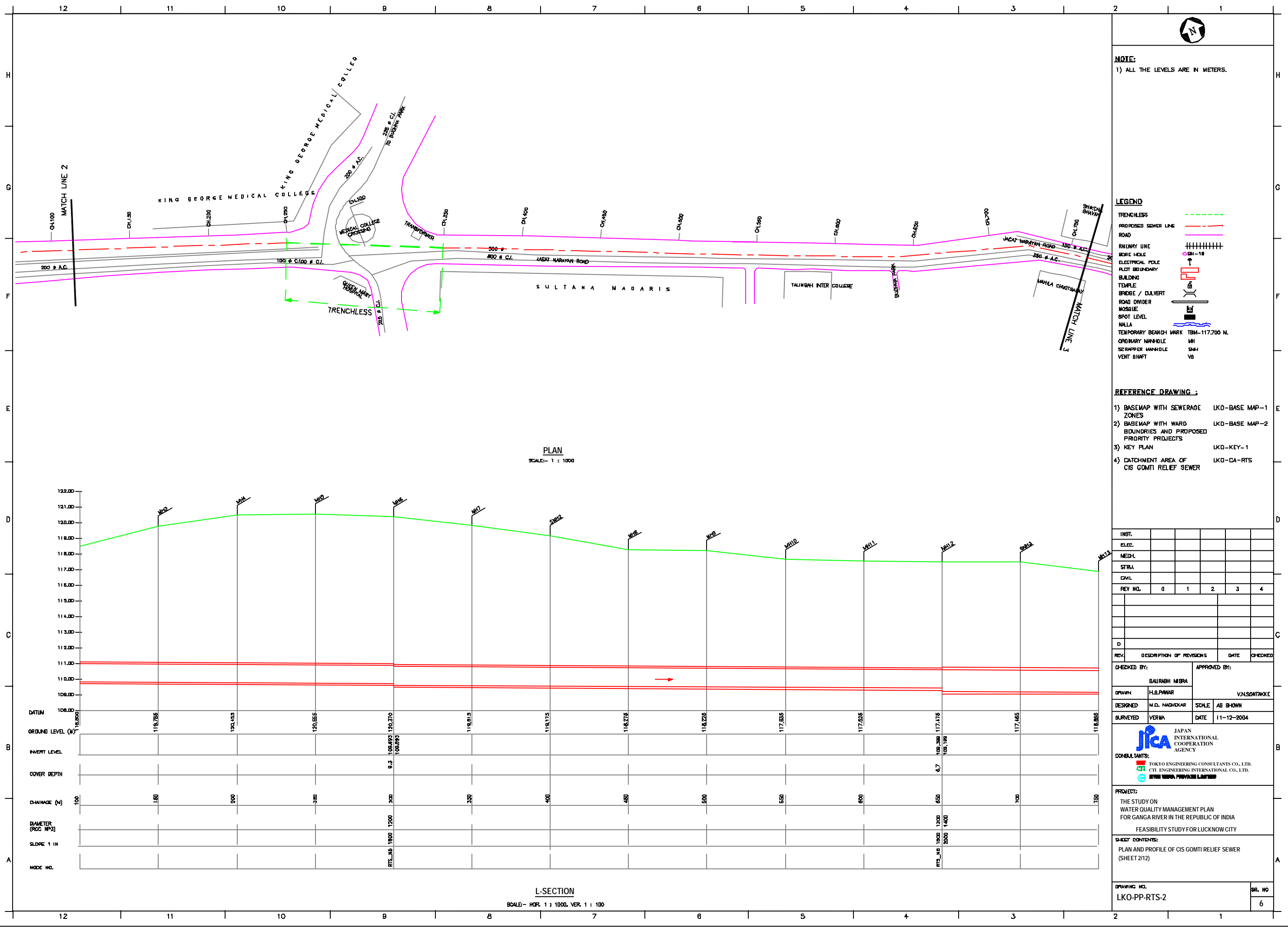
CHECKED BY: BAURABH NEERA	APPROVED BY: V.N.SANTAKKE
DRAWN H.S.PANWAR	SCALE AS SHOWN
DESIGNED N.D.NACHYKAR	DATE 11-12-2004
SURVEYED VERMA	

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY  
**CONSULTANTS:**  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 SURESH VERMA PRIVATE LIMITED

**PROJECT:**  
THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
FEASIBILITY STUDY FOR LUCKNOW CITY

**SHEET CONTENTS:**  
PLAN AND PROFILE OF CIS GOMTI RELIEF SEWER (SHEET 1/12)

DRAWING NO. LKO-PP-RTS-1	SR. NO. 5
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**NOTE:**  
1) ALL THE LEVELS ARE IN METERS.

**LEGEND**

TRENCHLESS	---
PROPOSED SEWER LINE	---
ROAD	---
RAILWAY LINE	---
BORE HOLE	---
ELECTRICAL POLE	---
PLOT BOUNDARY	---
BUILDING	---
TEMPLE	---
BRIDGE / CULVERT	---
ROAD DIVIDER	---
MOBILE	---
SPOT LEVEL	---
NALLA	---
TEMPORARY BENCH MARK	TBM-117700 N.
ORDINARY MANHOLE	MH
SCRAPER MANHOLE	SMH
VENT SHAFT	VS

- REFERENCE DRAWING :**
- 1) BASEMAP WITH SEWERAGE ZONES LKD-BASE MAP-1
  - 2) BASEMAP WITH WARD BOUNDARIES AND PROPOSED PRIORITY PROJECTS LKD-BASE MAP-2
  - 3) KEY PLAN LKD-KEY-1
  - 4) CATCHMENT AREA OF CIS GOMTI RELIEF SEWER LKD-CA-RTS

INST.					
ELEC.					
MECH.					
STRA.					
CIVIL					
REV. NO.	0	1	2	3	4

CHECKED BY: SAURABH MISHRA		APPROVED BY: V.N.SANTHAKRISHNAN	
DESIGNED	M.D. NAGDEKAR	SCALE	AS SHOWN
BURVEYED	VERMA	DATE	11-12-2004

**CONSULTANTS:**

**JICA** INTERNATIONAL COOPERATION AGENCY

**TOKYO ENGINEERING CONSULTANTS CO., LTD.**  
**CTI ENGINEERING INTERNATIONAL CO., LTD.**  
**SHYAM SUKLA PRIVATE LIMITED**

**PROJECT:**  
THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
FEASIBILITY STUDY FOR LUCKNOW CITY

**SHEET CONTENTS:**  
PLAN AND PROFILE OF CIS GOMTI RELIEF SEWER (SHEET 2/12)

DRAWING NO.	LKO-PP-RTS-2	SR. NO.	6
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**NOTE:**  
1) ALL THE LEVELS ARE IN METERS.

**LEGEND**

TRENCHLESS	
PROPOSED SEWER LINE	
EXISTING MAIN	
ROAD	
RAILWAY LINE	
BORE HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
BUILDING	
TEMPLE	
BRIDGE / CULVERT	
ROAD DIVIDER	
MOBILE	
SPOT LEVEL	
NALLA	
TEMPORARY BENCH MARK	TBM-117.700 N.
ORDINARY MANHOLE	MH
SCRAPER MANHOLE	SMH
VENT SHFT	VS

- REFERENCE DRAWING :**
- 1) BASEMAP WITH SEWERAGE ZONES LKD-BASE MAP-1
  - 2) BASEMAP WITH WARD BOUNDARIES AND PROPOSED PRIORITY PROJECTS LKD-BASE MAP-2
  - 3) KEY PLAN LKD-KEY-1
  - 4) CATCHMENT AREA OF CIS GDMTI RELIEF SEWER LKD-CA-RTS

INST.				
EDUC.				
MEDH.				
STRV.				
CIVL.				
REV. NO.	0	1	2	3
REV.				
DESCRIPTION OF REVISIONS				
DATE				
CHECKED				

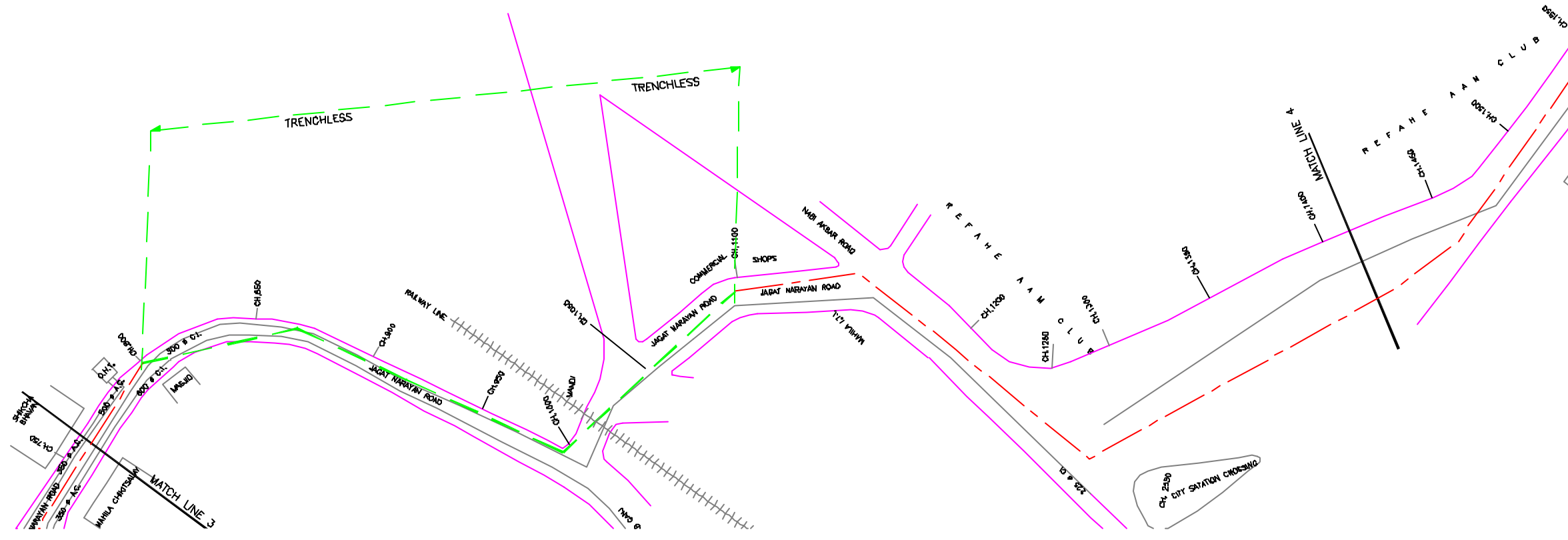
CHECKED BY: SAURABH MISHRA  
 APPROVED BY: V.N.SCHTAKKE  
 DRAWN: H.S.PANWAR  
 DESIGNED: M.D.NAGVEKAR  
 SURVEYED: VERMA  
 SCALE: AS SHOWN  
 DATE: 11-12-2004

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY  
**CONSULTANTS:**  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 C.T.I. ENGINEERING INTERNATIONAL CO., LTD.  
 SHYAM MISHRA PRIVATE LIMITED

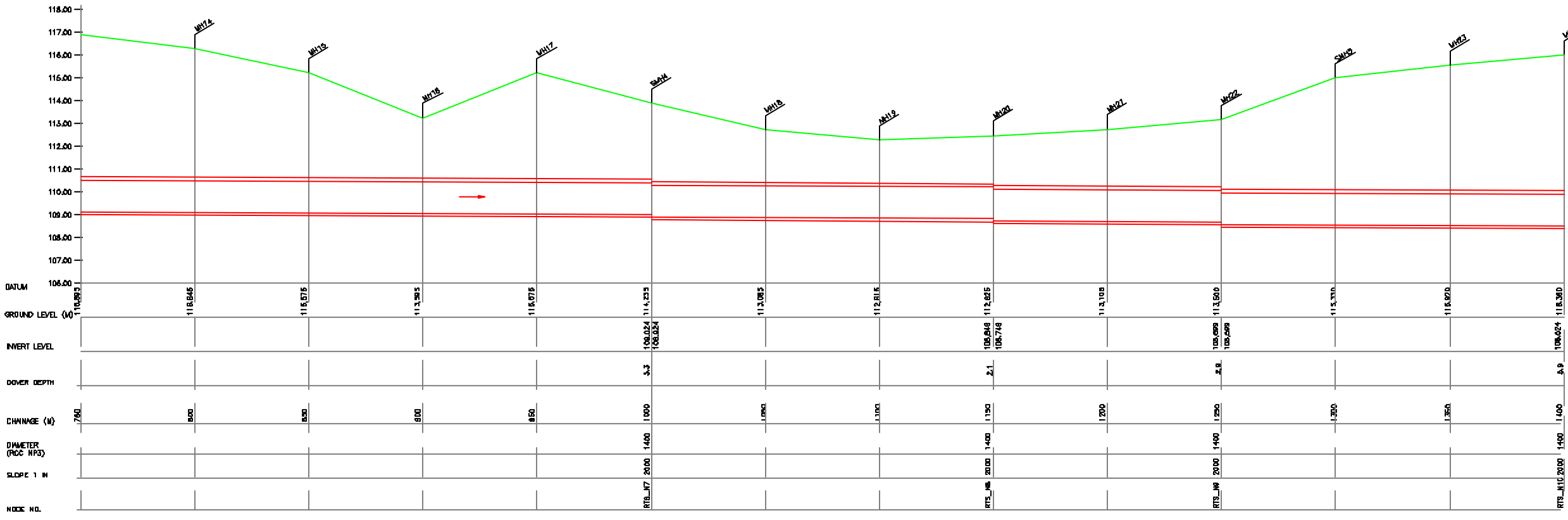
**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR LUCKNOW CITY

**SHEET CONTENTS:**  
 PLAN AND PROFILE OF CIS GOMTI RELIEF SEWER (SHEET 3/12)

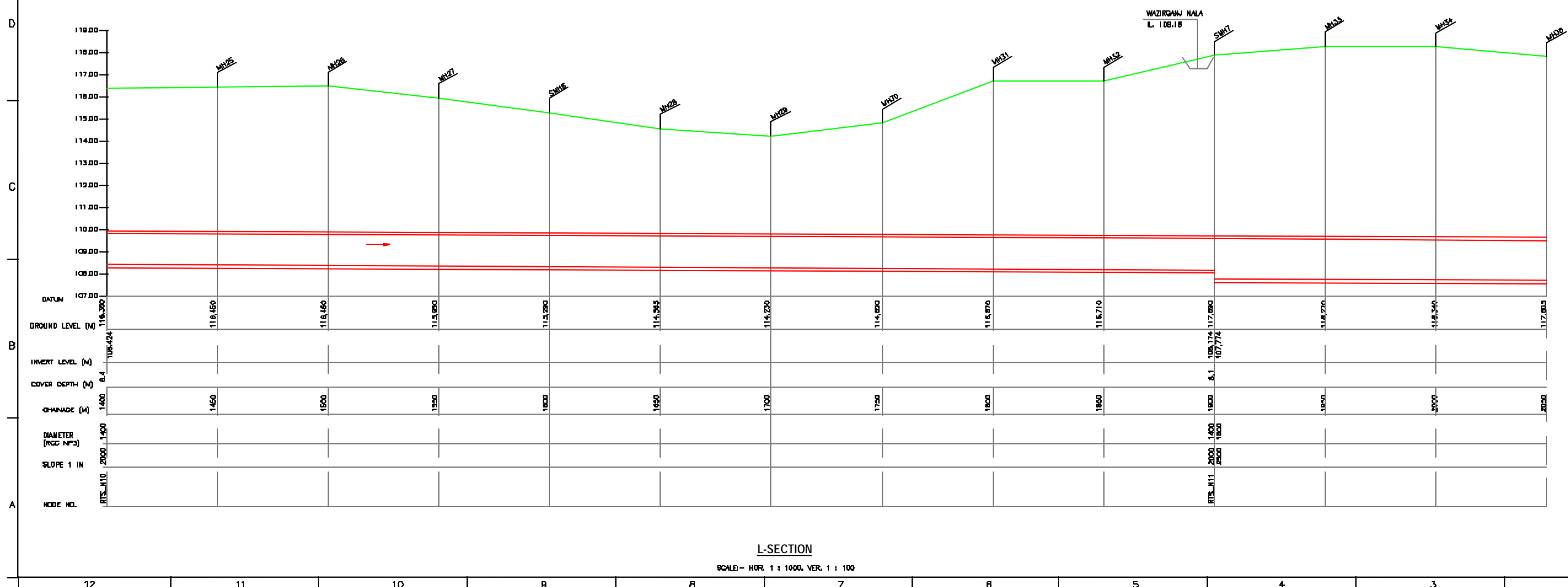
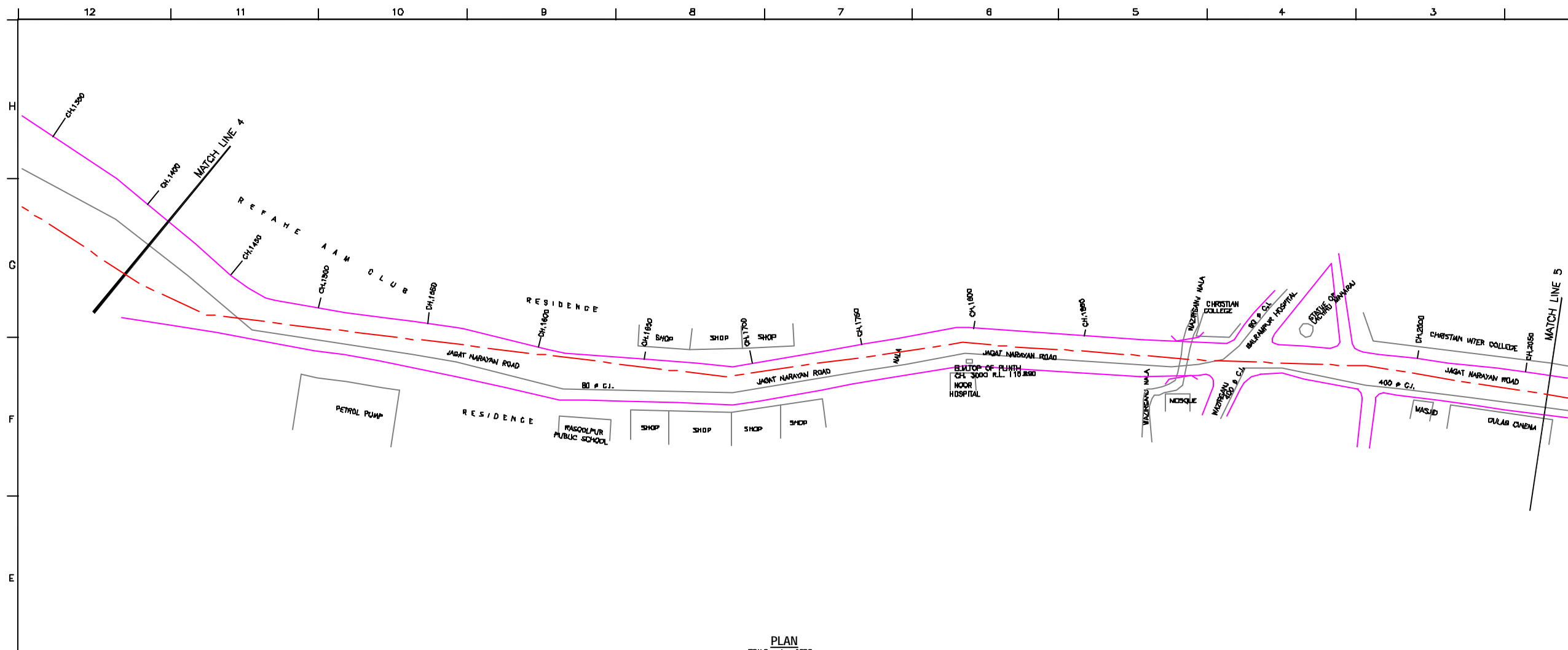
DRAWING NO. LKO-PP-RTS-3  
 SR. NO. 7



**PLAN**  
SCALE: 1 : 1000



**L-SECTION**  
SCALE: HOR. 1 : 1000, VER. 1 : 100



**NOTE:**  
1) ALL THE LEVELS ARE IN METERS.

**LEGEND**

TRENCHLESS	---
PROPOSED SEWER LINE	---
EXISTING MAIN	---
ROAD	---
RAILWAY LINE	---
BORE HOLE	---
ELECTRICAL POLE	---
PLOT BOUNDARY	---
BUILDING	---
TEMPLE	---
BRIDGE / CULVERT	---
ROAD DIVIDER	---
WELL	---
SPOT LEVEL	---
NALLA	---
TEMPORARY BEANCH MARK	---
ORDINARY MANHOLE	---
SCRAPPER MANHOLE	---
VENT SHAFT	---

- REFERENCE DRAWING :**
- 1) BASEMAP WITH SEWERAGE ZONES LKD-BASE MAP-1
  - 2) BASEMAP WITH WARD BOUNDARIES AND PROPOSED PRIORITY PROJECTS LKD-BASE MAP-2
  - 3) KEY PLAN LKD-KEY-1
  - 4) CATCHMENT AREA OF CIS GOMTI RELIEF SEWER LKD-CA-RTS

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED
0			
1			
2			
3			
4			

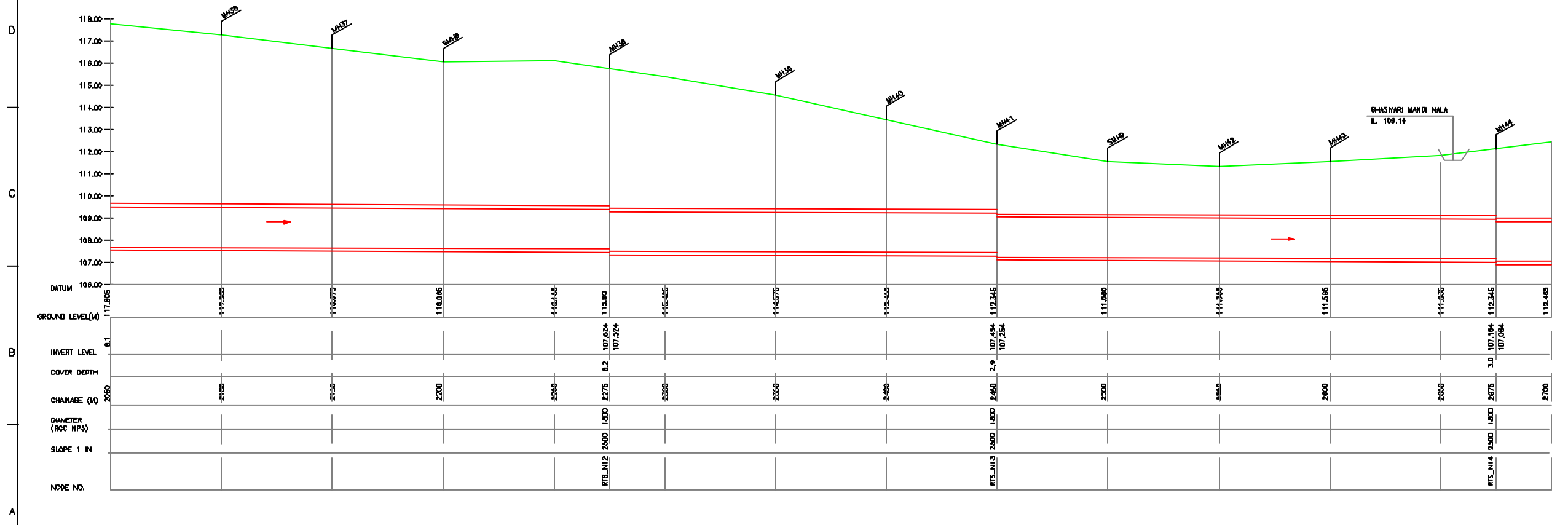
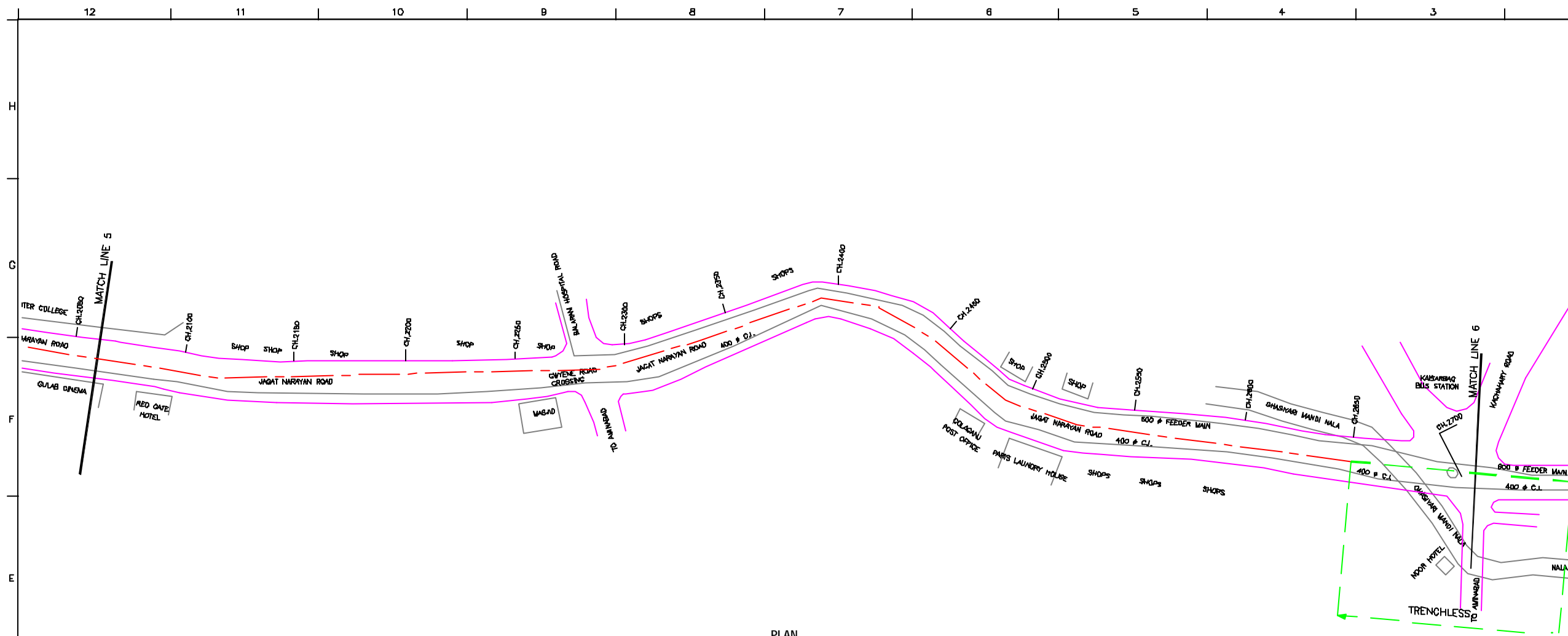
CHECKED BY: SAURABH MISHRA  
 APPROVED BY: V.N.SANTAKKE  
 DRAWN: H.S.PANWAR  
 DESIGNED: N.D.NAGVEKAR  
 SURVEYED: VERMA  
 DATE: 11-12-2004

**CONSULTANTS:**  
 JICA INTERNATIONAL COOPERATION AGENCY  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 C.T.I. ENGINEERING INTERNATIONAL CO., LTD.  
 SHRI SHRI PRAKASH LIMITED

**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR LUCKNOW CITY

**SHEET CONTENTS:**  
 PLAN AND PROFILE OF CIS GOMTI RELIEF SEWER (SHEET 4/12)

**DRAWING NO.**  
LKO-PP-RTS-4  
**SR. NO.**  
8



**NOTE:**  
1) ALL THE LEVELS ARE IN METERS.

**LEGEND**

TRENCHLESS	---
PROPOSED SEWER LINE	---
ROAD	---
RAILWAY LINE	---
BORE HOLE	---
ELECTRICAL POLE	---
PLOT BOUNDARY	---
BUILDING	---
TEMPLE	---
BRIDGE / CULVERT	---
ROAD DIVIDER	---
MOBILE	---
SPOT LEVEL	---
NALLA	---
TEMPORARY BEANCH MARK	---
ORDINARY MANHOLE	MH
SCRAPPER MANHOLE	SMH
VENT SHAFT	VS

- REFERENCE DRAWING :**
- 1) BASEMAP WITH SEWERAGE ZONES LKD-BASE MAP-1
  - 2) BASEMAP WITH WARD BOUNDARIES AND PROPOSED PRIORITY PROJECTS LKD-BASE MAP-2
  - 3) KEY PLAN LKD-KEY-1
  - 4) CATCHMENT AREA OF CIS GOMTI RELIEF SEWER LKD-CA-RTS

INST.					
ELCD.					
MECH.					
STRV.					
CIVL.					
REV. NO.	0	1	2	3	4

CHECKED BY:		APPROVED BY:	
SAURABH MISHRA		V.N.SANTAKKE	
DRAWN	H.S.PANWAR	SCALE	AS SHOWN
DESIGNED	M.D.JAGDEKAR	DATE	11-12-2004
BURVEED	VERNA		

**JICA** INTERNATIONAL COOPERATION AGENCY  
CONSULTANTS:  
TOKYO ENGINEERING CONSULTANTS CO., LTD.  
CTI ENGINEERING INTERNATIONAL CO., LTD.  
M/S. SAURABH MISHRA PRIVATE LIMITED

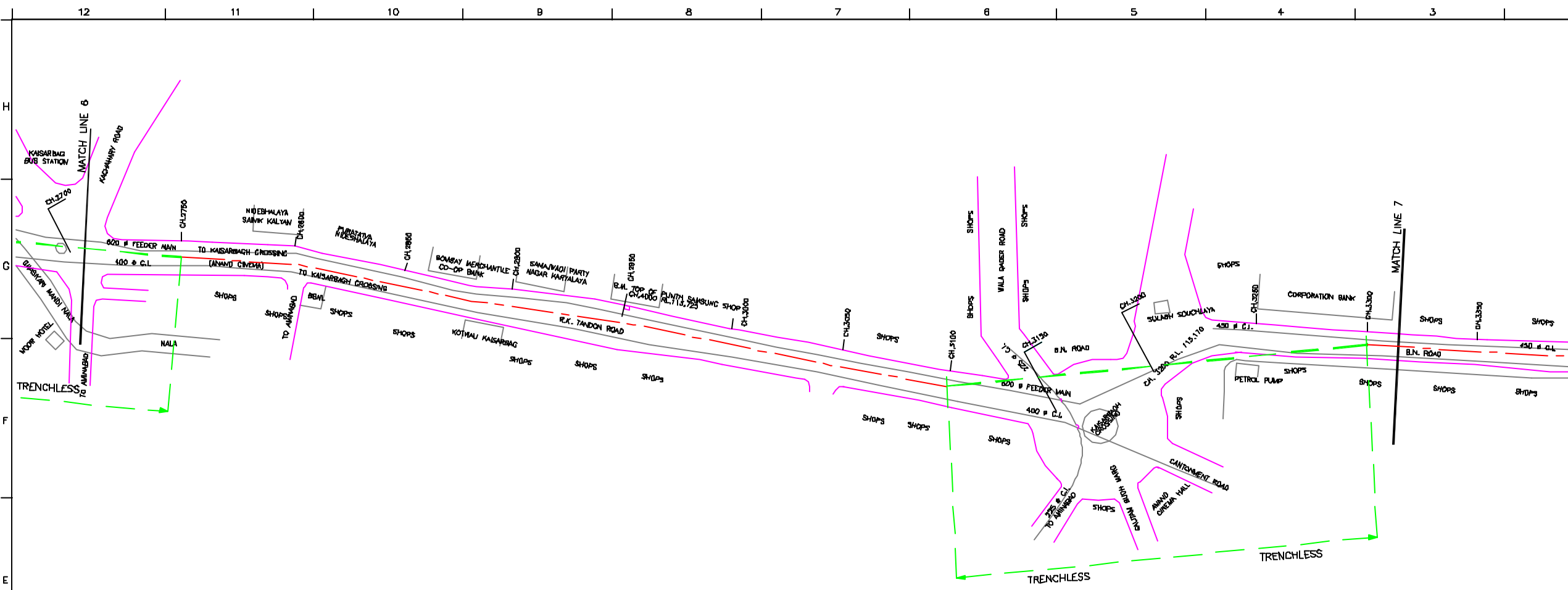
**PROJECT:**  
THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
FEASIBILITY STUDY FOR LUCKNOW CITY

**SHEET CONTENTS:**  
PLAN AND PROFILE OF CIS GOMTI RELIEF SEWER (SHEET 5/12)

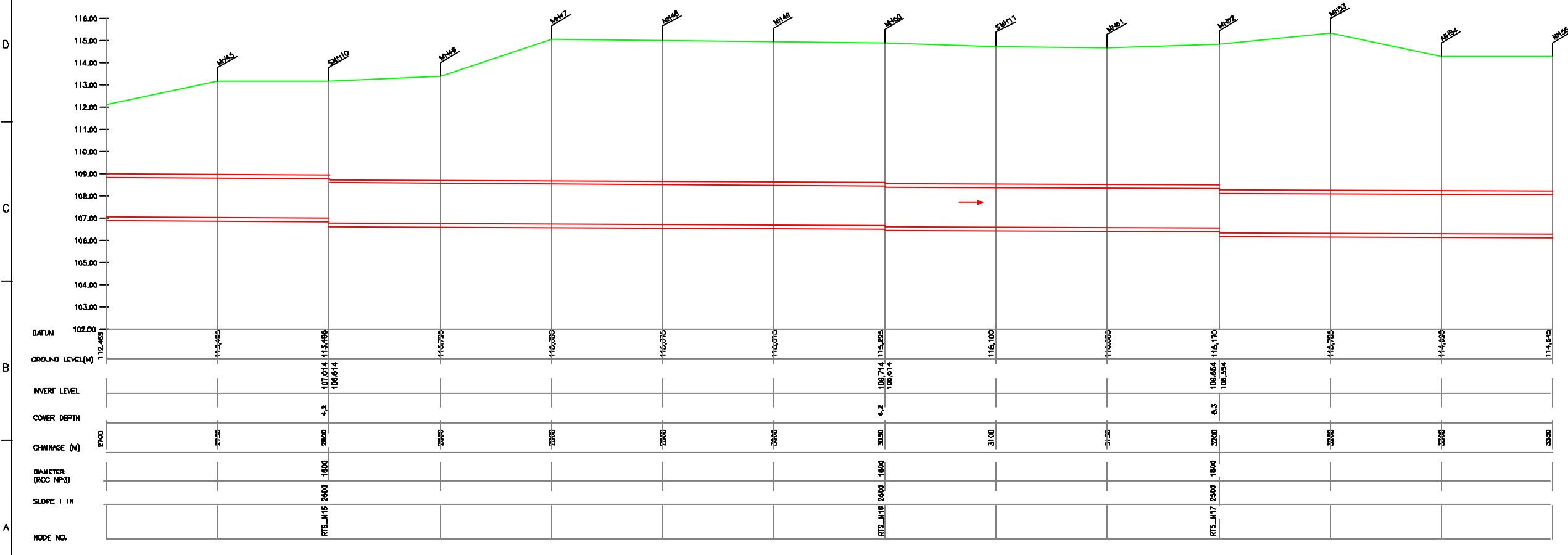
**DRAWING NO.**  
LKO-PP-RTS-5

**SR. NO.**  
9





PLAN  
SCALE: 1 : 1000



L-SECTION  
SCALE: HORZ. 1 : 1000, VER. 1 : 100

NOTE:  
1) ALL THE LEVELS ARE IN METERS.

LEGEND

TRENCHLESS	---
PROPOSED SEWER LINE	---
EXISTING MAIN	---
ROAD	---
RAILWAY LINE	---
BORE HOLE	---
ELECTRICAL POLE	---
PLUT BOUNDARY	---
BUILDING	---
TEMPLE	---
BRIDGE / CULVERT	---
ROAD DIVIDER	---
MANHOLE	---
SPOT LEVEL	---
NALLA	---
TEMPORARY BENCH MARK	TBM-117.700 N.
ORDINARY MANHOLE	MH
SCRAPER MANHOLE	SMH
VENT SHAFT	VS

- REFERENCE DRAWING :
- 1) BASEMAP WITH SEWERAGE ZONES LKD-BASE MAP-1
  - 2) BASEMAP WITH WARD BOUNDARIES AND PROPOSED PRIORITY PROJECTS LKD-BASE MAP-2
  - 3) KEY PLAN LKD-KEY-1
  - 4) DATCHMENT AREA OF CIS GOMTI RELIEF SEWER LKD-CA-RTS

INST.					
ELEC.					
MECH.					
STRU.					
CIVIL					
REV. NO.	0	1	2	3	4

CHECKED BY:	SAURABH MISHRA	APPROVED BY:	V.N.SCHTAKKE
DRAWN:	H.S.PANWAR	SCALE:	AS SHOWN
DESIGNED:	M.D.NAGDEKAR	DATE:	11-12-2024
SURVEYED:	VERNA		

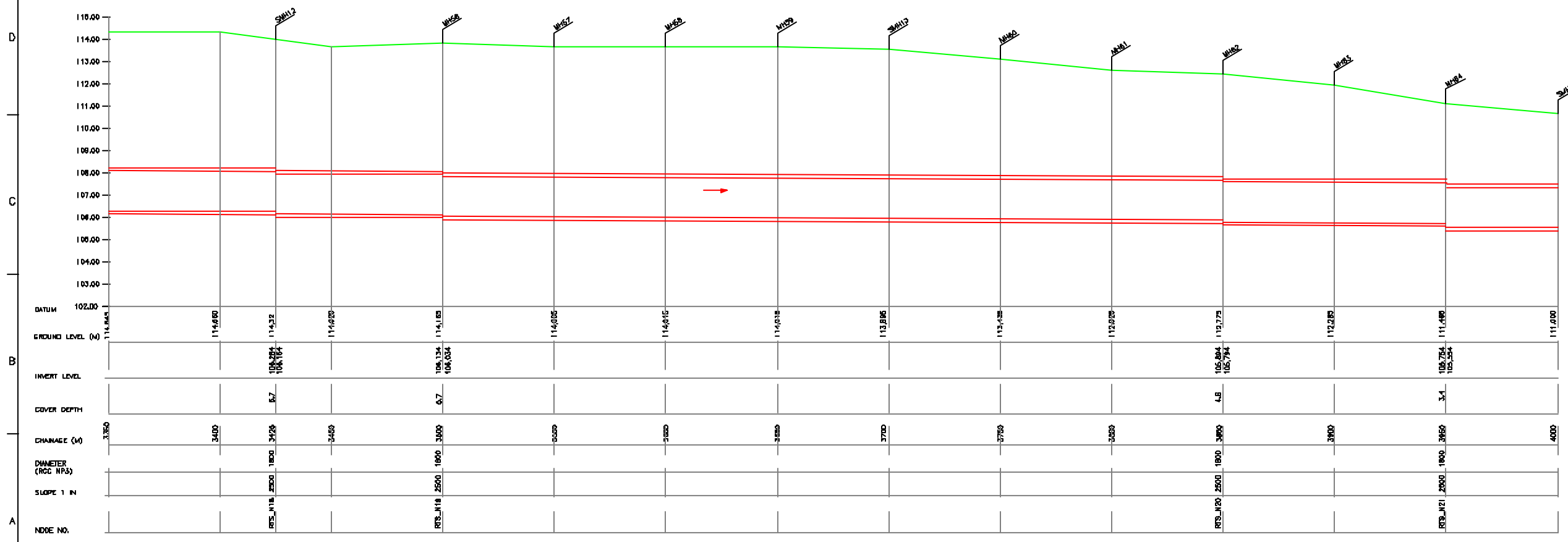
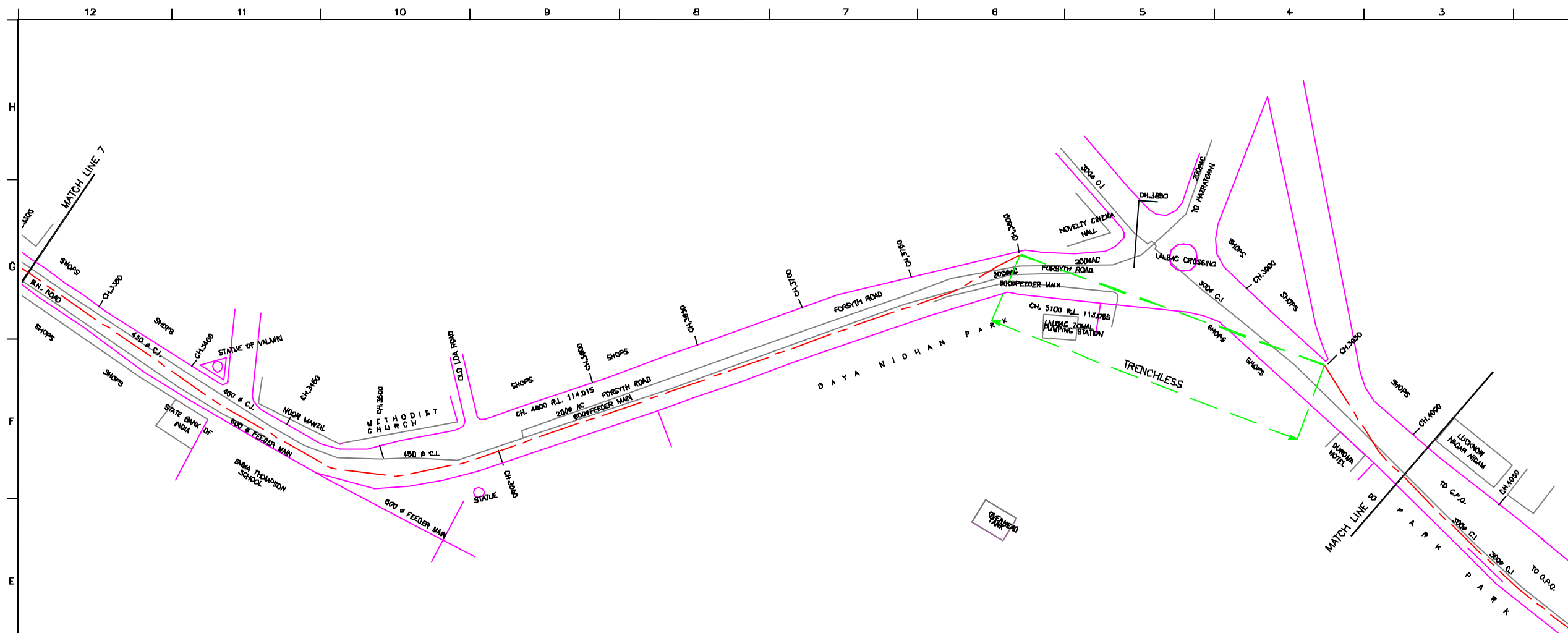
CONSULTANTS:

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY

TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 M/S. MISHRA PRAKASH LIMITED

PROJECT:  
THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
FEASIBILITY STUDY FOR LUCKNOW CITY

SHEET CONTENTS:  
PLAN AND PROFILE OF CIS GOMTI RELIEF SEWER (SHEET 6/12)



**L-SECTION**  
SCALE: HOR. 1 : 1000, VER. 1 : 100

**NOTE:**  
1) ALL THE LEVELS ARE IN METERS.

**LEGEND**

- TRENCHLESS
- PROPOSED SEWER LINE
- ROAD
- RAILWAY LINE
- BORE HOLE
- ELECTRICAL POLE
- PLOT BOUNDARY
- BUILDING
- TEMPLE
- BRIDGE / CULVERT
- ROAD DIVIDER
- WASTEWATER
- SPOT LEVEL
- NALLA
- TEMPORARY BEANCH MARK
- ORDINARY MANHOLE
- SCRAPPER MANHOLE
- VENT SHAFT

**REFERENCE DRAWING :**

- BASEMAP WITH SEWERAGE ZONES LKD-BASE MAP-1
- BASEMAP WITH WARD BOUNDARIES AND PROPOSED PRIORITY PROJECTS LKD-BASE MAP-2
- KEY PLAN LKD-KEY-1
- CATCHMENT AREA OF CIS GOMTI RELIEF SEWER LKD-CA-RTS

INST.	REV. NO.	DESCRIPTION OF REVISIONS	DATE	CHECKED
	0			
	1			
	2			
	3			
	4			

CHECKED BY: SAURABH MERA  
APPROVED BY: V.N.SCHTAKKE

DRAWN: H.S.PANWAR  
DESIGNED: M.D.NAGVEKAR  
SURVEYED: VERNA

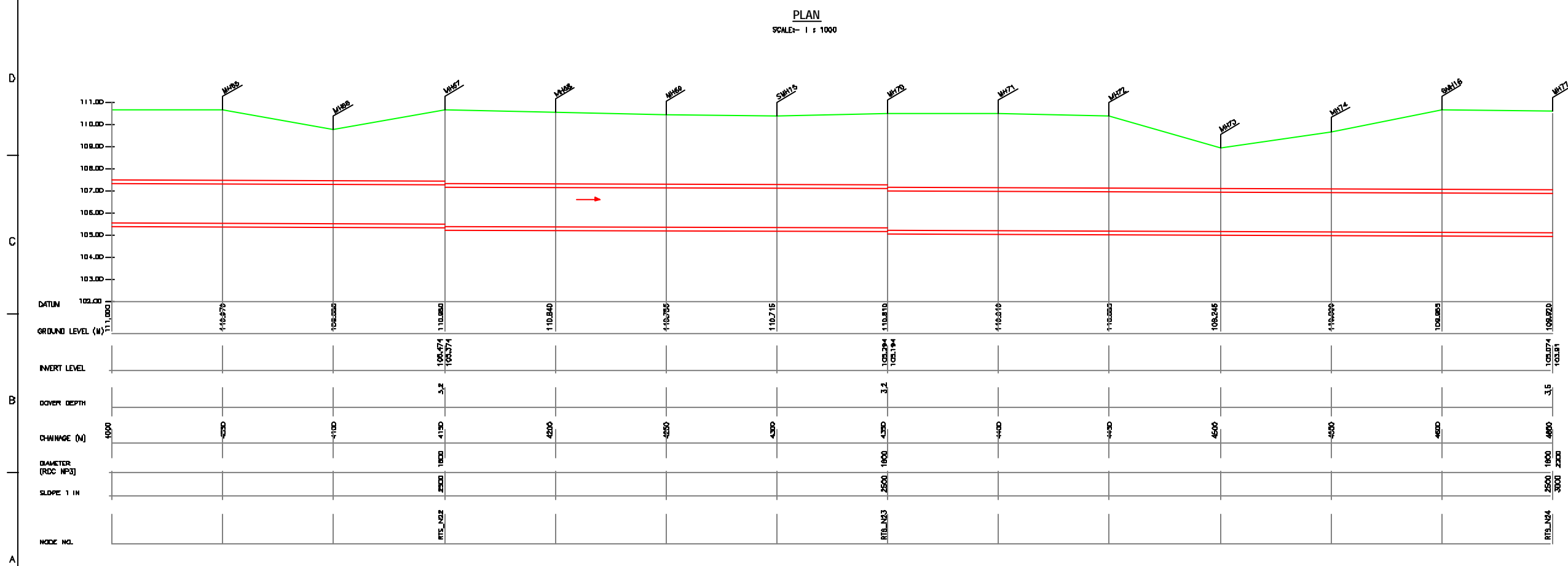
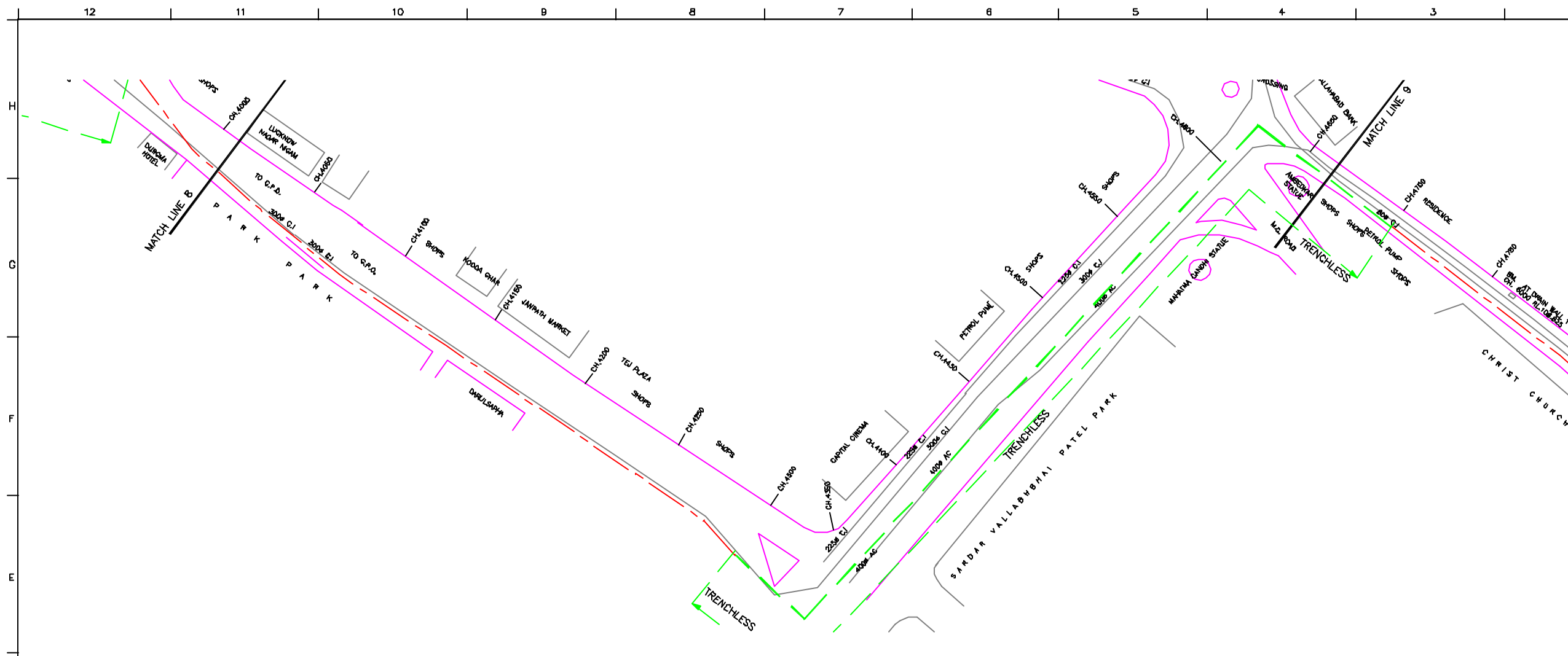
SCALE: AS SHOWN  
DATE: 11-12-2004

**JICA**  
JAPAN INTERNATIONAL COOPERATION AGENCY  
CONSULTANTS:  
TOKYO ENGINEERING CONSULTANTS CO., LTD.  
CTI ENGINEERING INTERNATIONAL CO., LTD.  
M/S. MERA PRIVATE LIMITED

**PROJECT:**  
THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
FEASIBILITY STUDY FOR LUCKNOW CITY

**SHEET CONTENTS:**  
PLAN AND PROFILE OF CIS GOMTI RELIEF SEWER (SHEET 7/12)

DRAWING NO. LKO-PP-RTS-7  
SR. NO. 11



**NOTE:**  
1) ALL THE LEVELS ARE IN METERS.

**LEGEND**

- TRENCHLESS
- PROPOSED SEWER LINE
- ROAD
- RAILWAY LINE
- BORE HOLE
- ELECTRICAL POLE
- PLOT BOUNDARY
- BUILDING
- TEMPLE
- BRIDGE / CULVERT
- ROAD DIVIDER
- MOBILE
- SPOT LEVEL
- NALLA
- TEMPORARY BEANCH MARK TBM-117.700 N.
- ORDINARY MANHOLE MH
- SCRAPER MANHOLE SMH
- VENT SHAFT VS

**REFERENCE DRAWING :**

- BASEMAP WITH SEWERAGE ZONES LKD-BASE MAP-1
- BASEMAP WITH WARD BOUNDARIES AND PROPOSED PRIORITY PROJECTS LKD-BASE MAP-2
- KEY PLAN LKD-KEY-1
- CATCHMENT AREA OF CIS GOMTI RELIEF SEWER LKD-CA-RTS

REV. NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

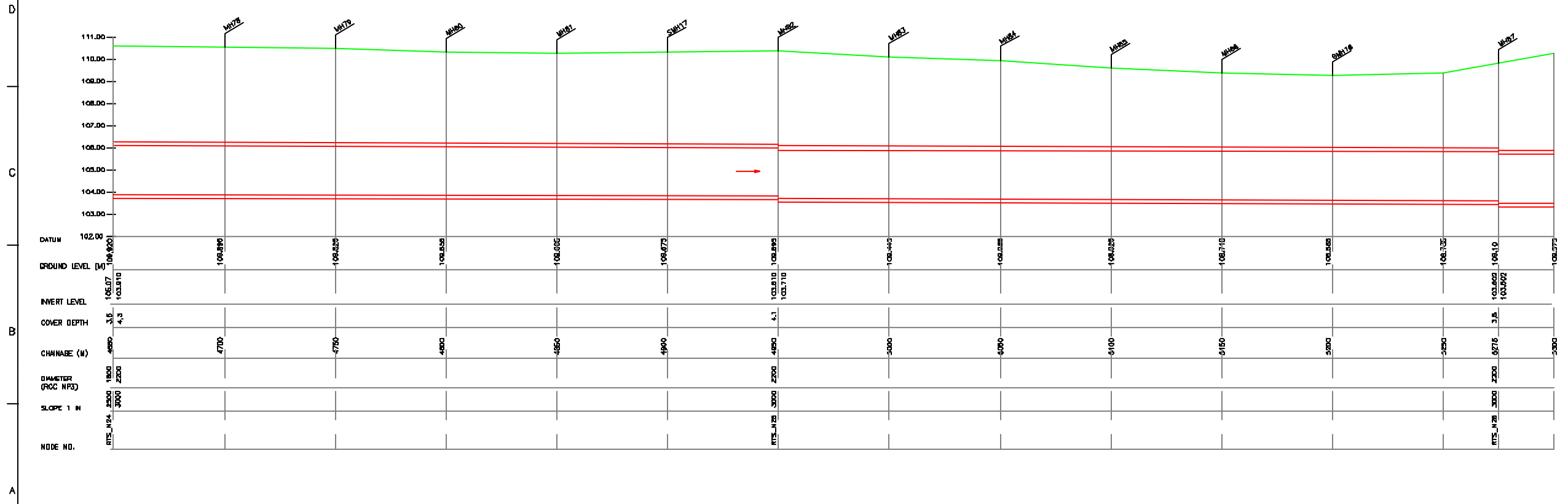
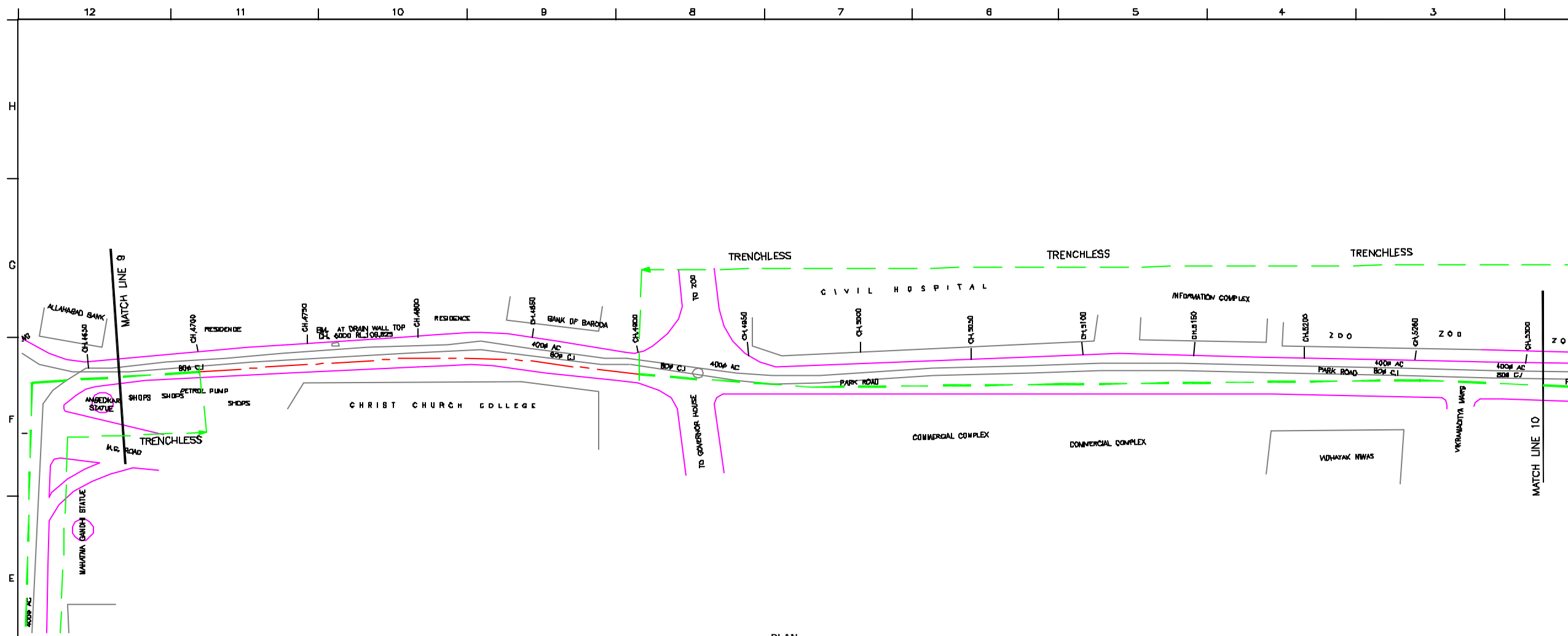
CHECKED BY: SAURABH MEERA		APPROVED BY: V.N.SANTAKKE	
DRAWN: H.S.PANWAR	SCALE: AS SHOWN		
DESIGNED: M.D.JAGDEKAR	DATE: 11-12-2004		
BURVEYED: VERNA			

**CONSULTANTS:**

**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR LUCKNOW CITY

**SHEET CONTENTS:**  
 PLAN AND PROFILE OF CIS GOMTI RELIEF SEWER (SHEET 8/12)

DRAWING NO. LKO-PP-RTS-8	SR. NO. 12
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**L-SECTION**  
SCALE: HOR. 1 : 1000, VER. 1 : 100

**NOTE:**  
1) ALL THE LEVELS ARE IN METERS.

**LEGEND**

TRENCHLESS PROPOSED SEWER LINE	---
EXISTING MAIN ROAD	---
RAILWAY LINE	
BORE HOLE	○
ELECTRICAL POLE	⊥
PLOT BOUNDARY	---
BUILDING	▭
TEMPLE	⊕
BRIDGE / CULVERT	⌒
ROAD DIVIDER	---
WISSELE	---
SPOT LEVEL	■
NALLA	---
TEMPORARY BEANCH MARK	TBM-117.700 N.
ORDINARY MANHOLE	MH
SCRAPER MANHOLE	SMH
VENT SHAFT	VS

- REFERENCE DRAWING :**
- 1) BASEMAP WITH SEWERAGE ZONES LKD-BASE MAP-1
  - 2) BASEMAP WITH WARD BOUNDARIES AND PROPOSED PRIORITY PROJECTS LKD-BASE MAP-2
  - 3) KEY PLAN LKD-KEY-1
  - 4) CATCHMENT AREA OF CIS GOMTI RELIEF SEWER LKD-CA-RTS

INST.					
ELCD.					
MECH.					
STRV.					
CIVL.					
REV. NO.	0	1	2	3	4

CHECKED BY:	SAURABH NERJA	APPROVED BY:	V.N.SANTAKKE
DRAWN:	H.S.PANWAR	SCALE:	AS SHOWN
DESIGNED:	M.D.NAGVEKAR	DATE:	11-12-2004
BURVEYED:	VERNA		

**JICA** INTERNATIONAL COOPERATION AGENCY  
**CONSULTANTS:**  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 SURESH NERJA PRIVATE LIMITED

**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR LUCKNOW CITY

**SHEET CONTENTS:**  
 PLAN AND PROFILE OF CIS GOMTI RELIEF SEWER (SHEET 9/12)

**NOTE:**  
1) ALL THE LEVELS ARE IN METERS.

**LEGEND**

TRENCHLESS	---
PROPOSED SEWER LINE	---
RESINO NAN	---
ROAD	---
RAILWAY LINE	---
BORE HOLE	---
ELECTRICAL POLE	---
PLOT BOUNDARY	---
BUILDING	---
TEMPLE	---
BRIDGE / CULVERT	---
ROAD DIVIDER	---
MOBILE	---
SPOT LEVEL	---
NALLA	---
TEMPORARY BEANCH MARK	TBM-117.700 N.
ORDINARY MANHOLE	MH
SCRAPER MANHOLE	SMH
TEMPORARY BEANCH MARK	VB

- REFERENCE DRAWING :**
- 1) BASEMAP WITH SEWERAGE ZONES LKD-BASE MAP-1
  - 2) BASEMAP WITH WARD BOUNDARIES AND PROPOSED PRIORITY PROJECTS LKD-BASE MAP-2
  - 3) KEY PLAN LKD-KEY-1
  - 4) DATCHMENT AREA OF CIS GOMTI RELIEF SEWER LKD-CA-RTS

INST.					
DESD.					
MECH.					
STRV.					
CIVL.					
REV. NO.	0	1	2	3	4
REV.					
DESCRIPTION OF REVISIONS					
DATE					
CHECKED					

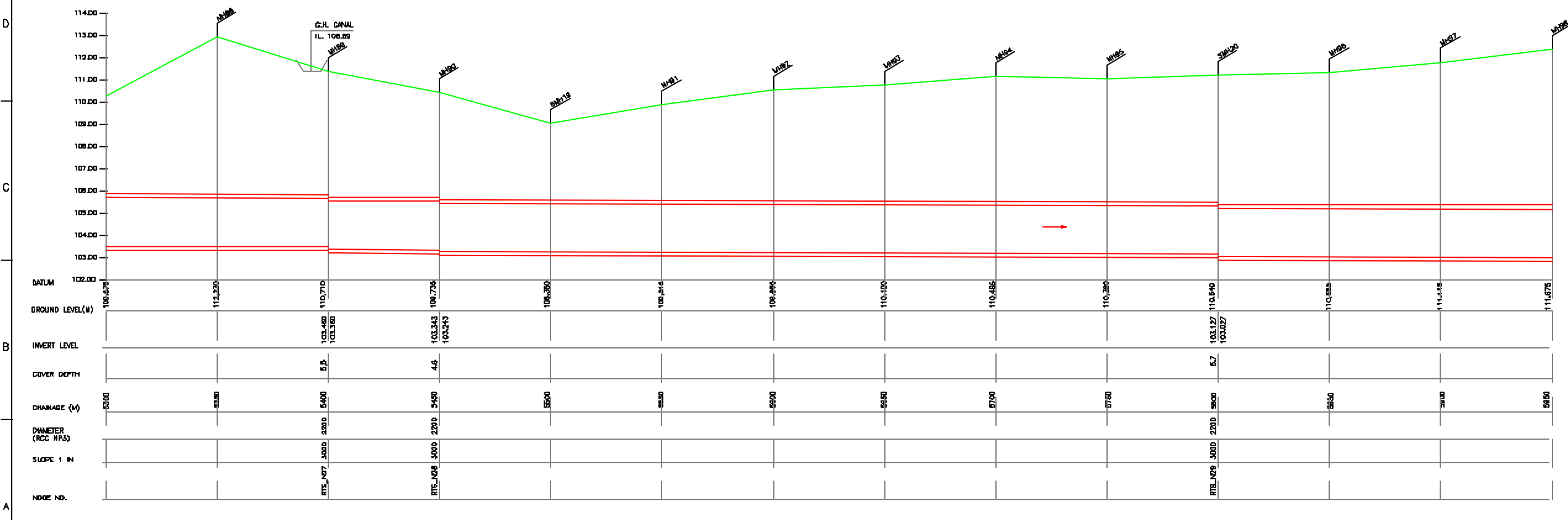
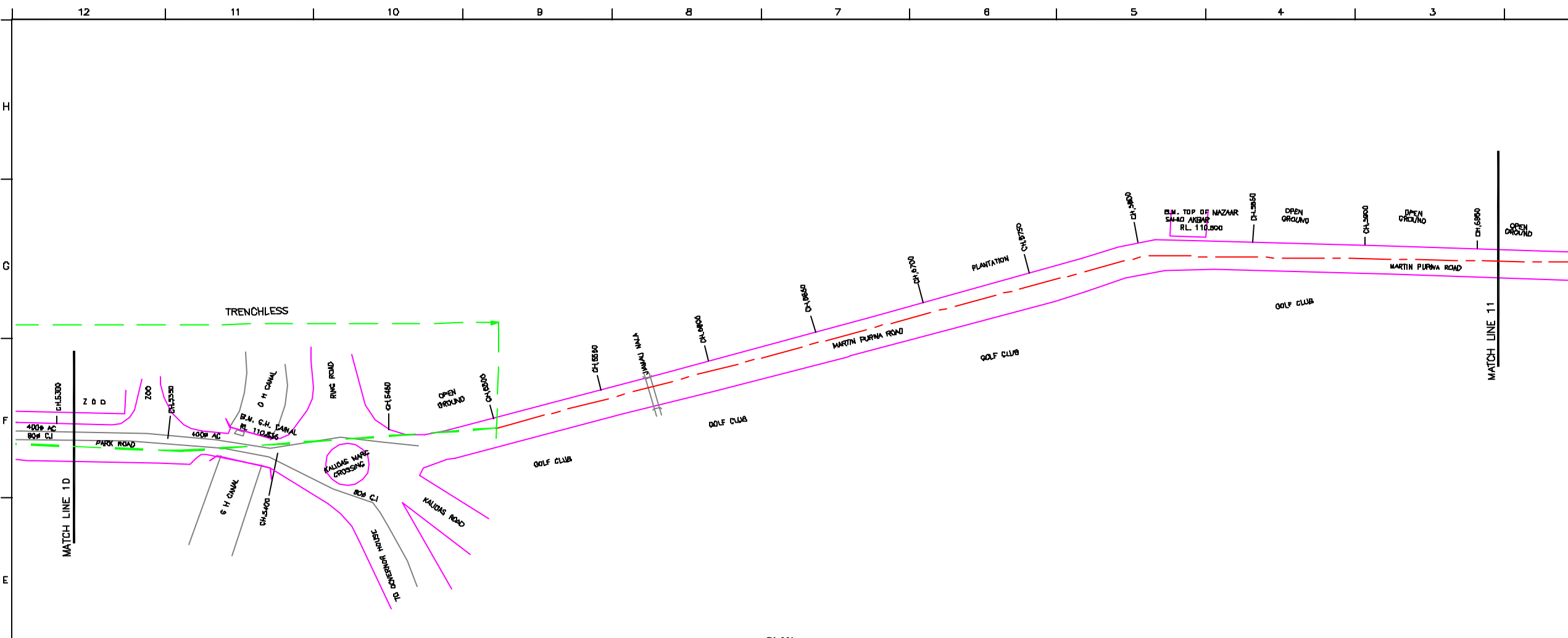
CHECKED BY: SAURABH NEERA  
APPROVED BY: V.N.SANTAKKE  
DRAWN: H.S.PANWAR  
DESIGNED: M.D.NAGVEKAR  
SURVEYED: VERNA  
DATE: 11-12-2004  
SCALE: AS SHOWN

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY  
CONSULTANTS:  
TOKYO ENGINEERING CONSULTANTS CO., LTD.  
CTI ENGINEERING INTERNATIONAL CO., LTD.  
SHRI NERA PRIVATE LIMITED

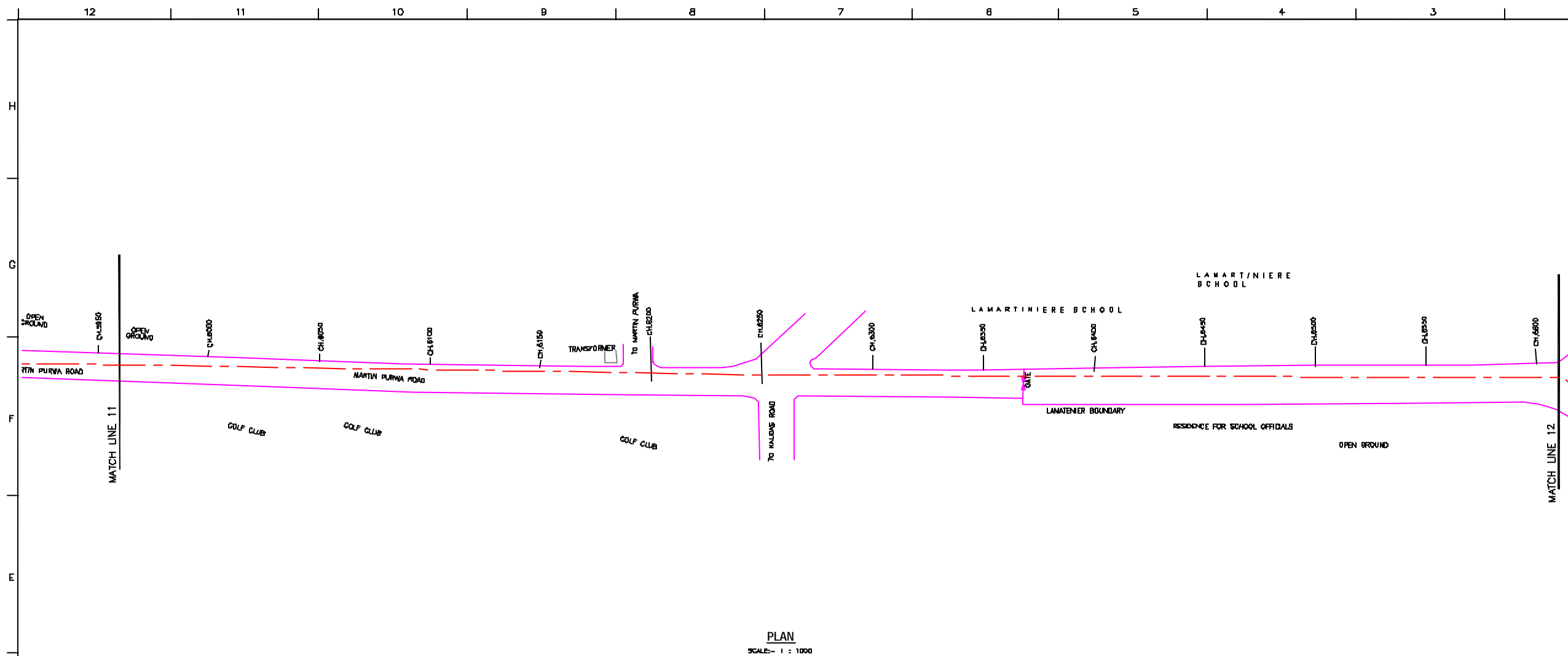
PROJECT:  
THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
FEASIBILITY STUDY FOR LUCKNOW CITY

SHEET CONTENTS:  
PLAN AND PROFILE OF CIS GOMTI RELIEF SEWER (SHEET 10/12)

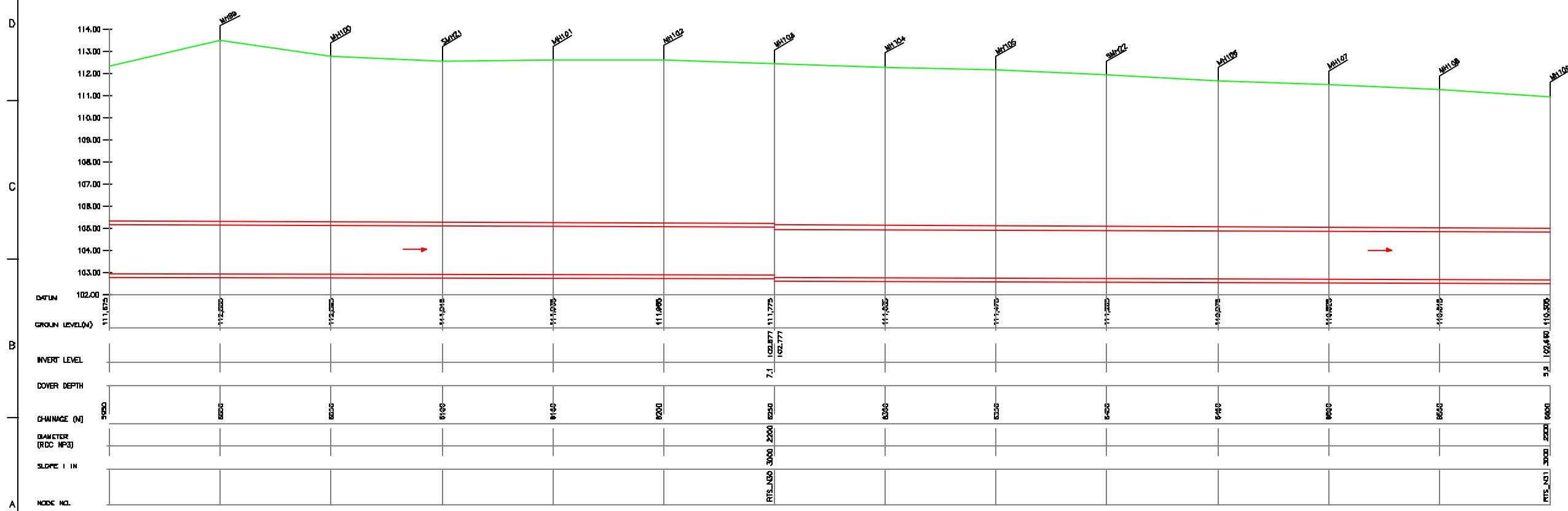
DRAWING NO. LKO-PP-RTS-10  
SR. NO. 14







PLAN  
SCALE: 1 : 1000



L-SECTION  
SCALE: HOR. 1 : 1000, VER. 1 : 100

NOTE:  
1) ALL THE LEVELS ARE IN METERS.

**LEGEND**

TRENCHLESS	---
PROPOSED SEWER LINE	---
ROAD	---
RAILWAY LINE	---
BORE HOLE	---
ELECTRICAL POLE	---
PLOT BOUNDARY	---
BUILDING	---
TEMPLE	---
BRIDGE / CULVERT	---
ROAD DIVIDER	---
WASTEWATER	---
SPOT LEVEL	---
NALLA	---
TEMPORARY BEANCH MARK	TBM-117.700 N.
ORDINARY MANHOLE	NH
SCRAPPER MANHOLE	SMH
VENT SHAFT	VS

- REFERENCE DRAWING :**
- 1) BASEMAP WITH SEWERAGE ZONES LKD-BASE MAP-1
  - 2) BASEMAP WITH WARD BOUNDRIES AND PROPOSED PRIORITY PROJECTS LKD-BASE MAP-2
  - 3) KEY PLAN LKD-KEY-1
  - 4) DATCHMENT AREA OF CIS GOMTI RELIEF SEWER LKD-CA-RTS

INST.					
DESD.					
MECH.					
STRV.					
CIVL.					
REV. NO.	0	1	2	3	4

CHECKED BY:	SAURASH NERFA	APPROVED BY:	V.N.SCHTAKKE
DRAWN:	H.S.PANWAR	SCALE:	AS SHOWN
DESIGNED:	M.D.NAGVEKAR	DATE:	11-12-2004

**JICA** INTERNATIONAL COOPERATION AGENCY  
**CONSULTANTS:**  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 NERFA NERFA PRIVATE LIMITED

**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR LUCKNOW CITY

**SHEET CONTENTS:**  
 PLAN AND PROFILE OF CIS GOMTI RELIEF SEWER (SHEET 11/12)



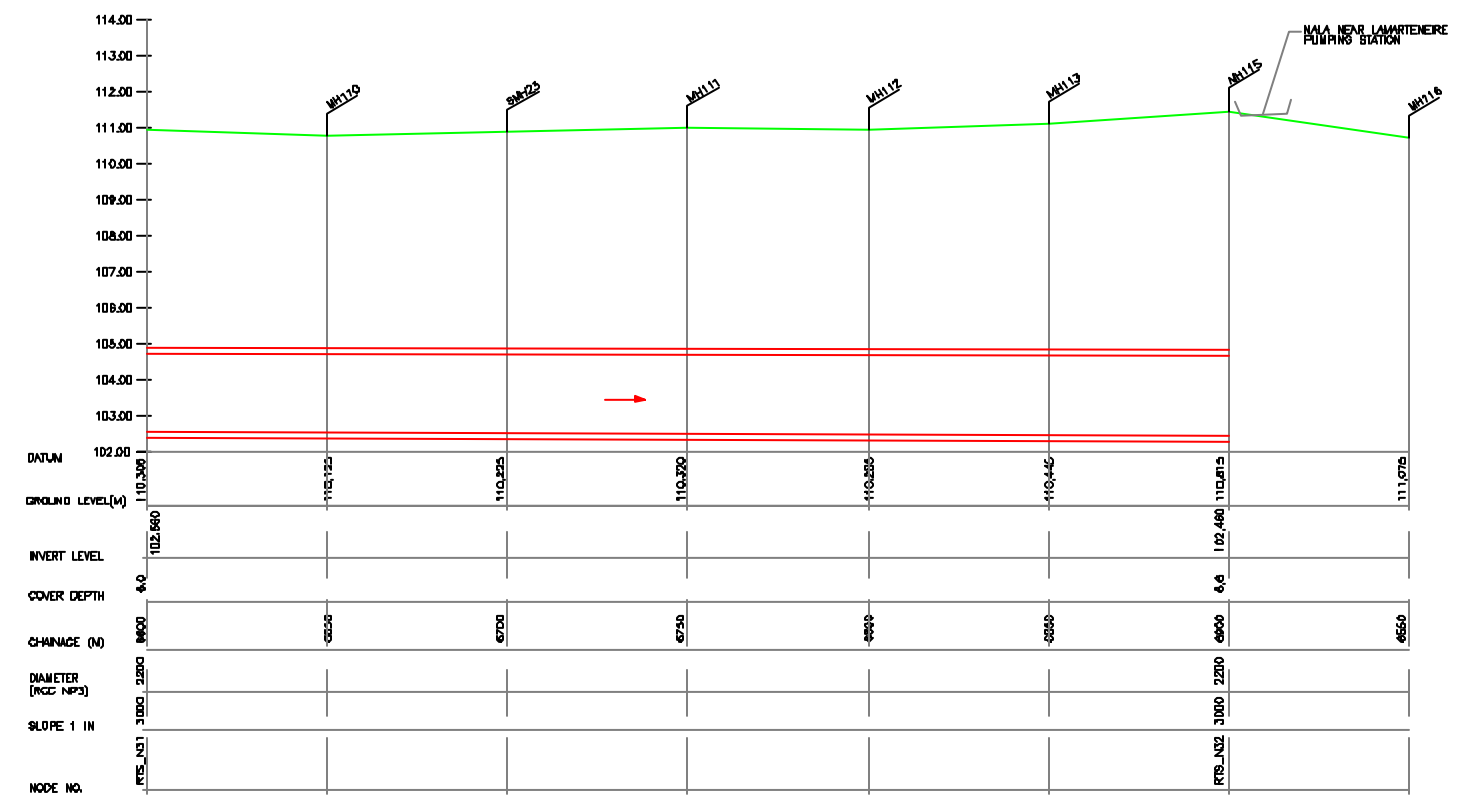
**NOTE:**  
1) ALL THE LEVELS ARE IN METERS.

**LEGEND**

TRENCHLESS	---
PROPOSED SEWER LINE	---
REBING MAN	---
ROAD	---
RAILWAY LINE	
BORE HOLE	○ BH-18
ELECTRICAL POLE	↑
PLOT BOUNDARY	---
BUILDING	---
TEMPLE	---
BRIDGE / CULVERT	---
ROAD DIVIDER	---
WESSEL	---
SPOT LEVEL	---
NALLA	---
TEMPORARY BEANCH MARK	TBM-117.700 N.L.
ORDINARY MANHOLE	MH
SCRAPER MANHOLE	SMH
VENT SHAFT	VS

- REFERENCE DRAWING :**
- 1) BASEMAP WITH SEWERAGE ZONES LKD-BASE MAP-1
  - 2) BASEMAP WITH WARD BOUNDRIES AND PROPOSED PRIORITY PROJECTS LKD-BASE MAP-2
  - 3) KEY PLAN LKD-KEY-1
  - 4) DATCHMENT AREA OF CIS GOMTI RELIEF SEWER LKD-CA-RTS

**PLAN**  
SCALE: 1 : 1000



**L-SECTION**  
SCALE: HOR. 1 : 1000, VER. 1 : 100

INST.					
EDUC.					
MED.					
STRU.					
CIVIL					
REV. NO.	0	1	2	3	4

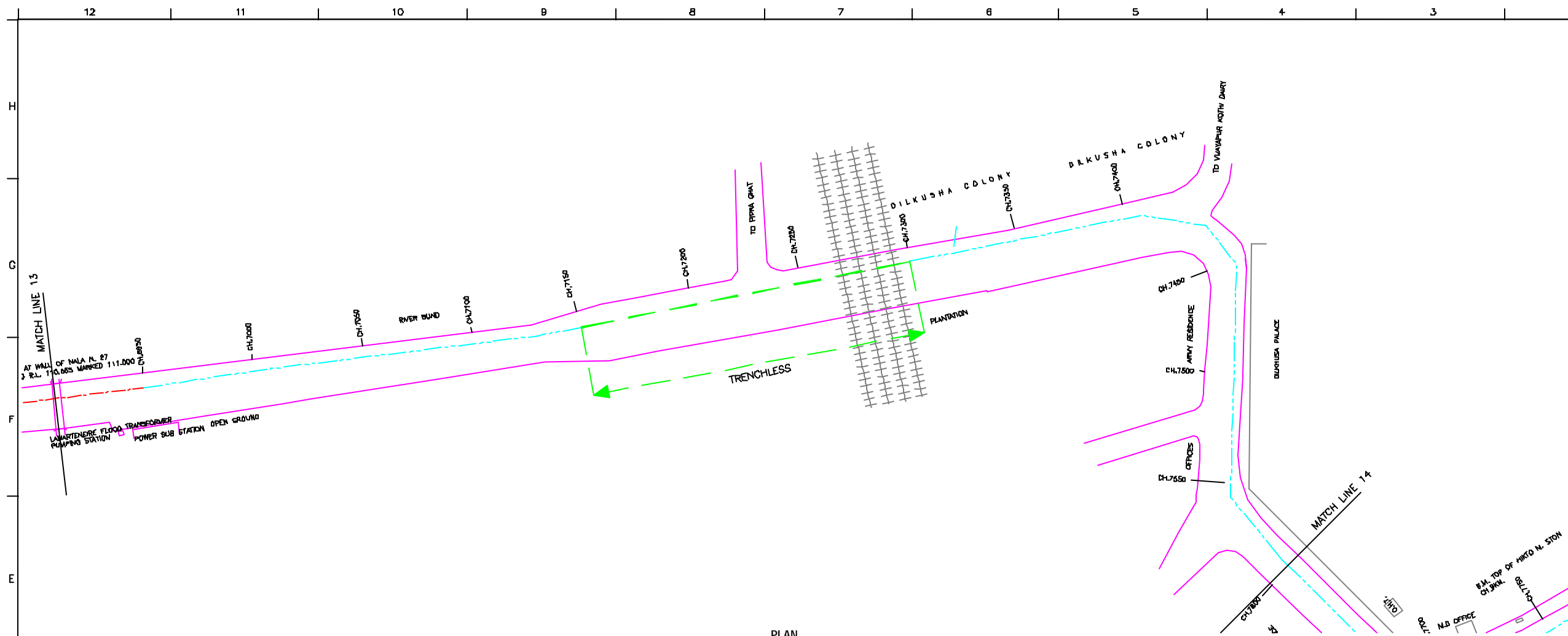
REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

CHECKED BY:	SAURABH MISHRA	APPROVED BY:	V.N.SANTAKKE
DRAWN	H.S.PANWAR	SCALE	AS SHOWN
DESIGNED	M.D.NAGVEKAR	DATE	11-12-2004
SURVEYED	VERMA		

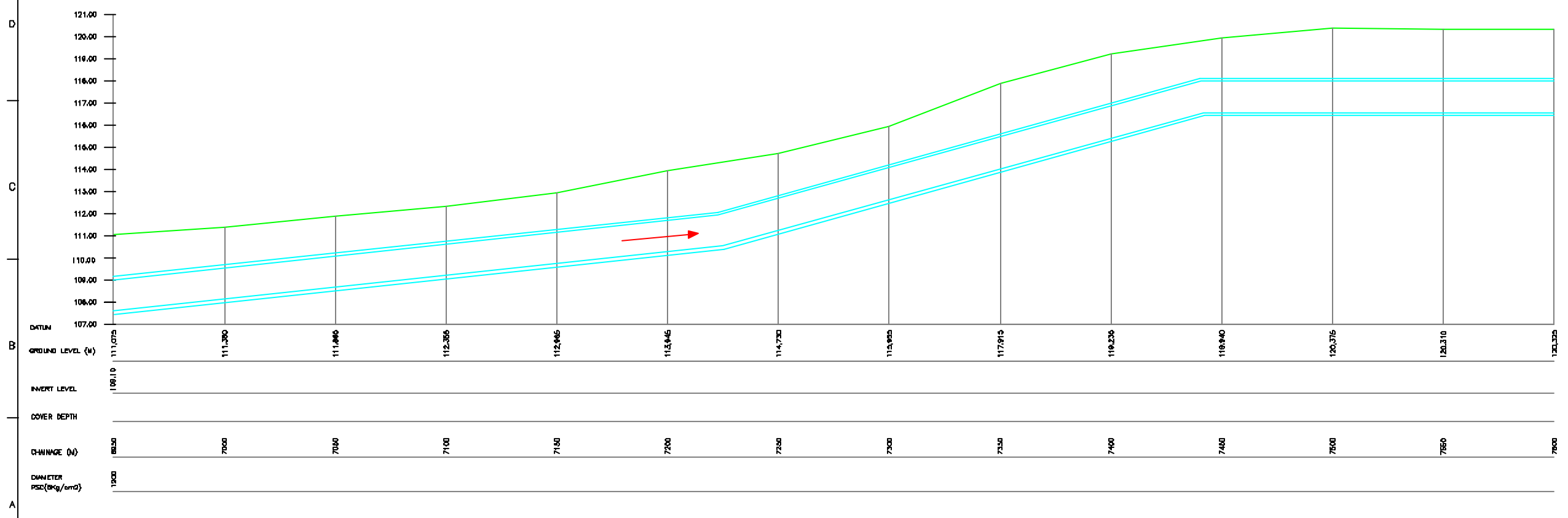
**CONSULTANTS:**

**PROJECT:**  
THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
FEASIBILITY STUDY FOR LUCKNOW CITY

**SHEET CONTENTS:**  
PLAN AND PROFILE OF CIS GOMTI RELIEF SEWER (SHEET 12/12)



**PLAN**  
SCALE:- 1 : 1000



**L-SECTION**  
SCALE:- HOR. 1 : 1000, VER. 1 : 100

**NOTE:**  
1) ALL THE LEVELS ARE IN METERS.

**LEGEND**

TRENCHLESS	---
PROPOSED SEWER LINE	---
RISING MAIN	---
ROAD	---
RAILWAY LINE	
BORE HOLE	○
ELECTRICAL POLE	⊥
PLOT BOUNDARY	---
BUILDING	---
TEMPLE	---
BRIDGE / CULVERT	---
ROAD DIVIDER	---
MOBILE	---
SPOT LEVEL	---
NALLA	---
TEMPORARY BEANCH MARK	---

- REFERENCE DRAWING :**
- 1) BASEMAP WITH SEWERAGE ZONES LKD-BASE MAP-1
  - 2) BASEMAP WITH WARD BOUNDARIES AND PROPOSED PRIORITY PROJECTS LKD-BASE MAP-2
  - 3) KEY PLAN LKD-KEY-1
  - 4) DATCHMENT AREA OF SULTANPUR ROAD TRUNK SEWER LKD-CA-SITS

INST.					
ELEC.					
MECH.					
STRV.					
CIVL.					
REV. NO.	0	1	2	3	4
REV.					
DESCRIPTION OF REVISIONS					
DATE					
CHECKED BY:					
APPROVED BY:					

CHECKED BY: SAURASH NERFA  
 APPROVED BY: V.N. SONTAKKE  
 DRAWN: H.S. PAMAR  
 DESIGNED: P.N. PABRIKAR  
 SURVEYED: VERMA  
 SCALE: AS SHOWN  
 DATE: 11-12-2004

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY  
**CONSULTANTS:**  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 SURESH NERFA PRAKASH LIMITED

**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR LUCKNOW CITY

**SHEET CONTENTS:**  
 PLAN AND PROFILE OF MARTIN PURWA PS RISING MAIN (SHEET 1/2)

DRAWING NO. LKO-PP-MPRM-1  
 SR. NO. 17

**NOTE:**

1) ALL THE LEVELS ARE IN METERS.

**LEGEND:**

PROPOSED SEWER LINE	
ROAD MAIN	
ROAD	
RAILWAY LINE	
BORE HOLE	
ELECTRICAL POLE	
PLLOT BOUNDARY	
BUILDING	
TEMPLE	
BRIDGE / CULVERT	
ROAD DIVIDER	
MOBILE	
SPOT LEVEL	
NALLA	
TEMPORARY BEANCH MARK	

**REFERENCE DRAWING :**

- 1) BASEMAP WITH SEWERAGE ZONES LKD-BASE MAP-1
- 2) BASEMAP WITH WARD BOUNDARIES AND PROPOSED PRIORITY PROJECTS LKD-BASE MAP-2
- 3) KEY PLAN LKD-KEY-1
- 4) CATCHMENT AREA OF SULTANPUR ROAD TRUNK SEWER LKD-CA-SITS

INST.					
ELDG.					
MECH.					
STRU.					
CIVL.					
REV. NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

CHECKED BY:		APPROVED BY:	
SAURABH MISHRA		V.N. SONTAKKE	
DRAWN:	H.S. PAMAR	SCALE:	AS SHOWN
DESIGNED:	P.J. PABREKAR	DATE:	11-12-2024
BURVEYED:	VERNA		

**CONSULTANTS:**

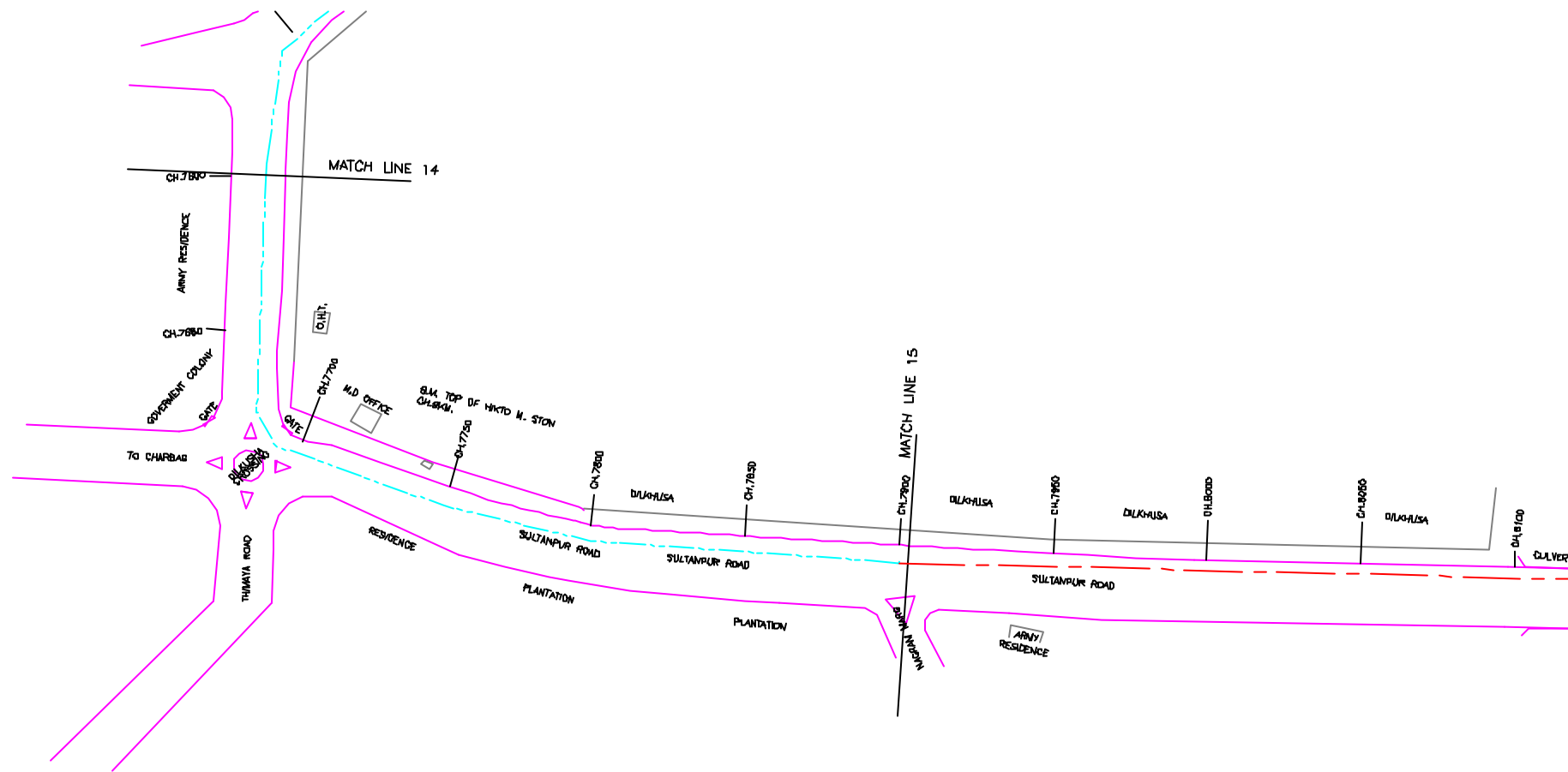
**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY

TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 SAURABH MISHRA PRAVAHA LIMITED

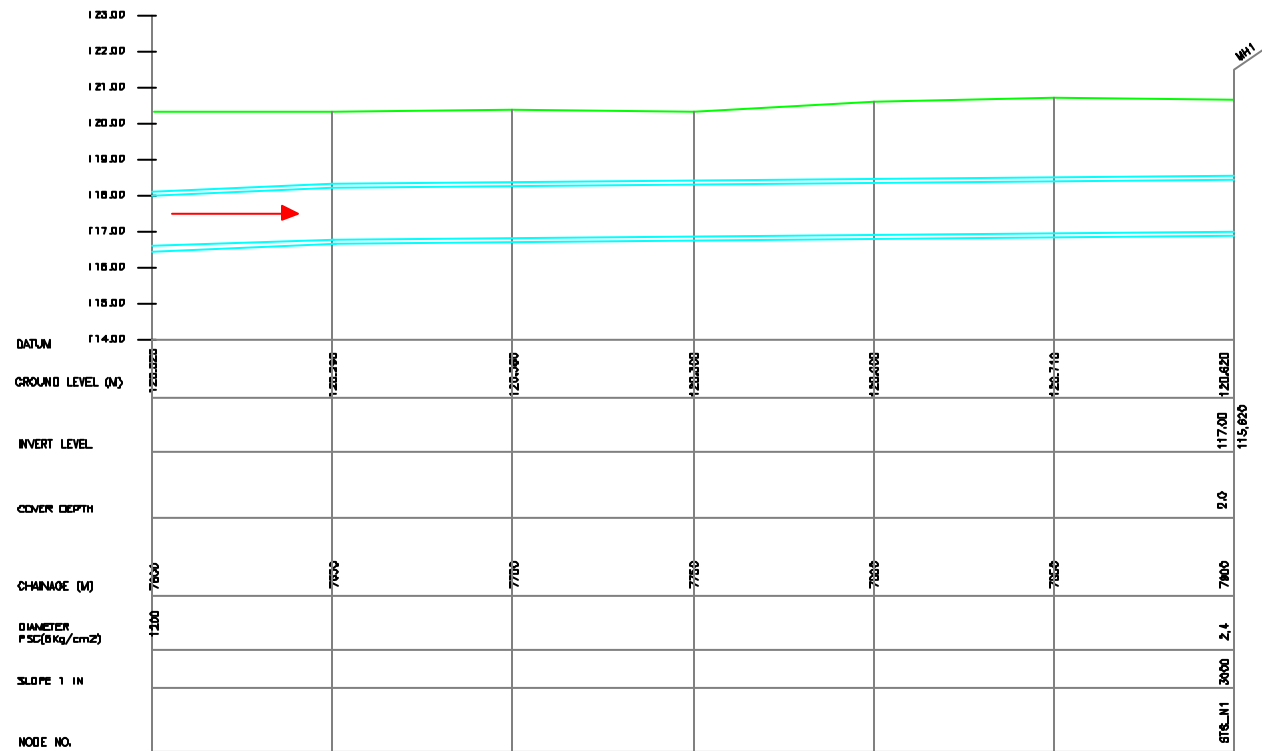
**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR LUCKNOW CITY

**SHEET CONTENTS:**  
 PLAN AND PROFILE OF MARTIN PURWA PS RISING MAIN (SHEET 2/2)

DRAWING NO.	SR. NO.
LKO-PP-MPRM-2	18

**PLAN**

SCALE:- 1 : 1000

**L-SECTION**

SCALE:- HOR. 1 : 1000, VER. 1 : 100