

Preparation of Detailed Project Reports (DPRs) & Bid Documents; Tendering for Execution; Construction Supervision & Quality Control of Sewerage Projects of Patna under NGRBA

Detailed Project Report – Sewerage

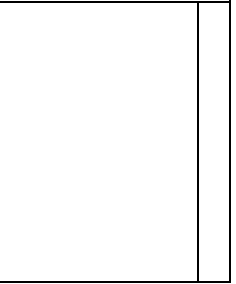
L-Section & Bill of Quantities – Pahari (Package- 7 & 8)

October 2013

Prepared for:

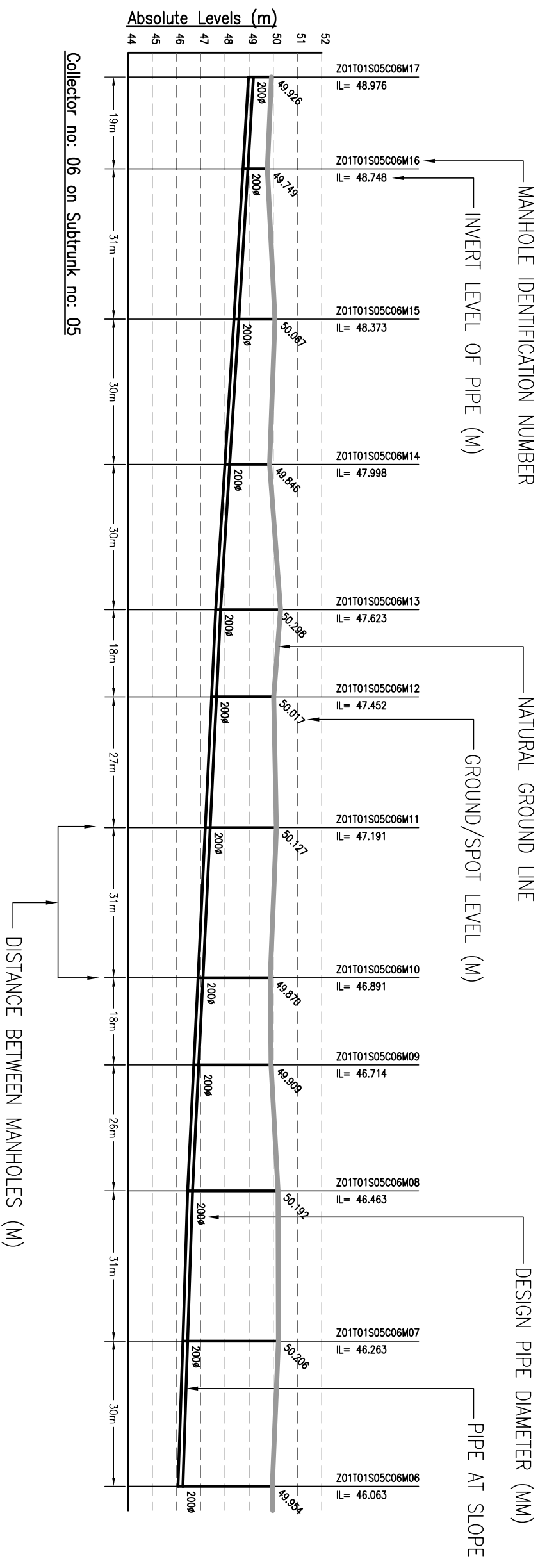


Managing Director
Bihar Urban Infrastructure Development Corporation
Patna, Bihar



L-SECTIONS

**ZONE-4A (SOUTH)
(PACKAGE-8)**



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Drawing Base Reference:-
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV/	DATE	NAME	DESCRIPTION	CHKD
00	SEP'13	AH	ISSUED FOR DPR	RP

AMENDMENTS

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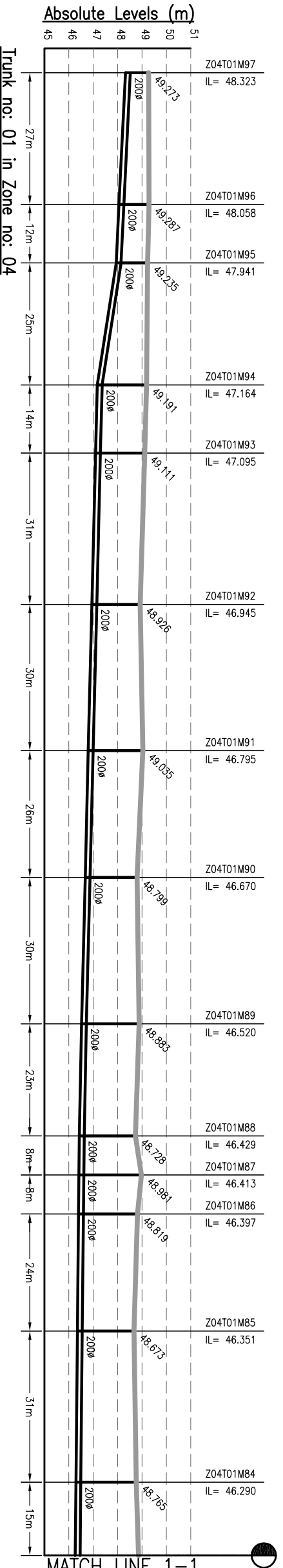
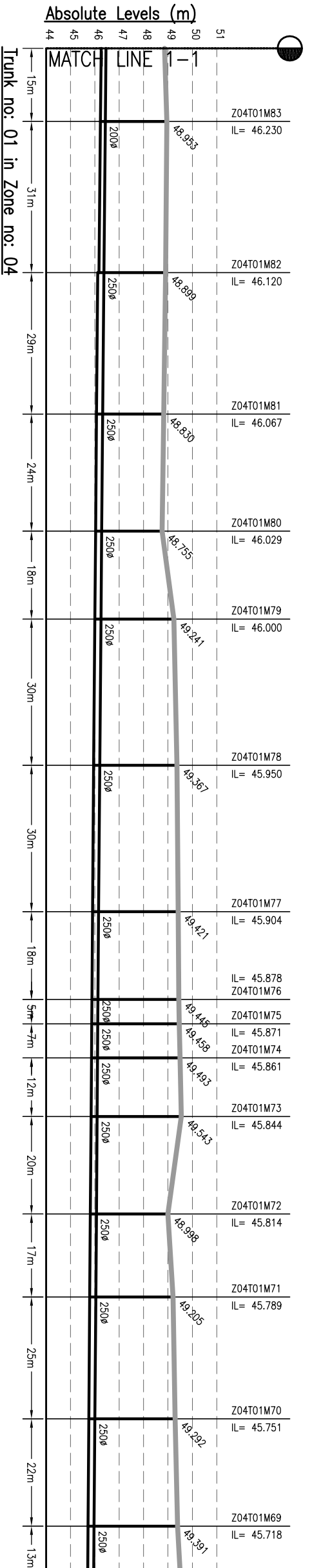
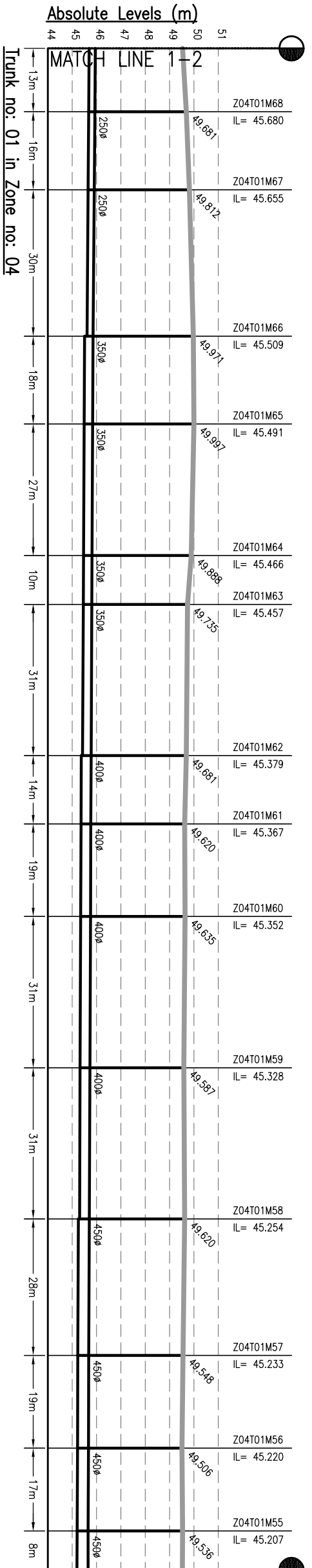
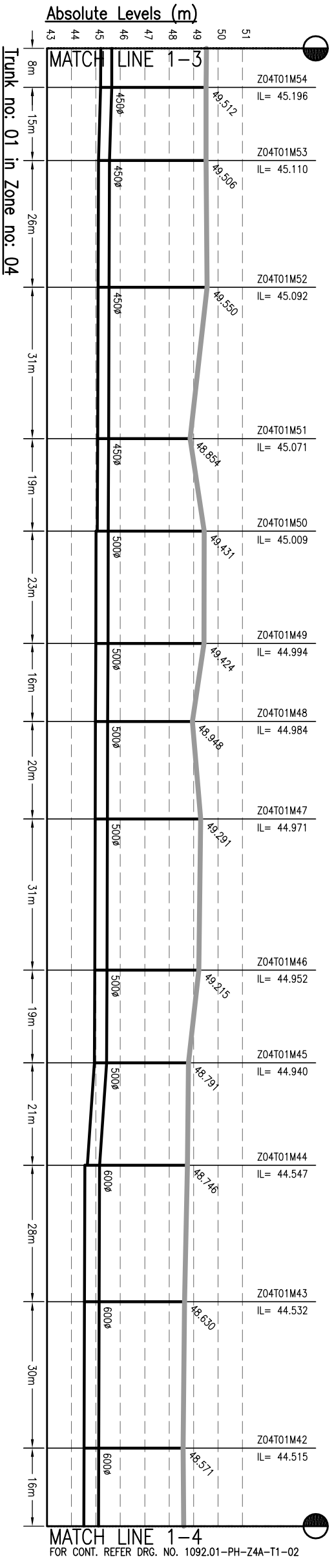
PROJECT:-
 PREPARATION OF DETAILED
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 DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION &
 QUALITY CONTROL OF SEWERAGE
 PROJECTS OF PATNA UNDER NGRBA

CONSULTANT:-

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DRAWING TITLE
L-SECTION DESCRIPTION SHEET
(SEWERAGE)

PURPOSE OF ISSUE		SCALE :-
DETAILED PROJECT REPORT (SEWERAGE)	SHEET SIZE :- A3	H-1000, V-200
BY	DATE OF FIRST ISSUE	
DRAWN	AH	SEPTEMBER 2013
DESIGNED	JR	SEPTEMBER 2013
CHECKED	RP	SEPTEMBER 2013
APPROVED	CRR	SEPTEMBER 2013
JOB NO.	DISCIPLINE	DRAWING NO.
1092.01	PH	DS-01
		REVISION
		00



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4. REFER DRAWING NO. TO 491 & 1092.01-PH-S-01 TO 491 FOR LOCATION OF MANHOLE AND OTHER DETAILS.


Drafting Base Reference:
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP


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PROJECT:-
 PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

CONSULTANT:-

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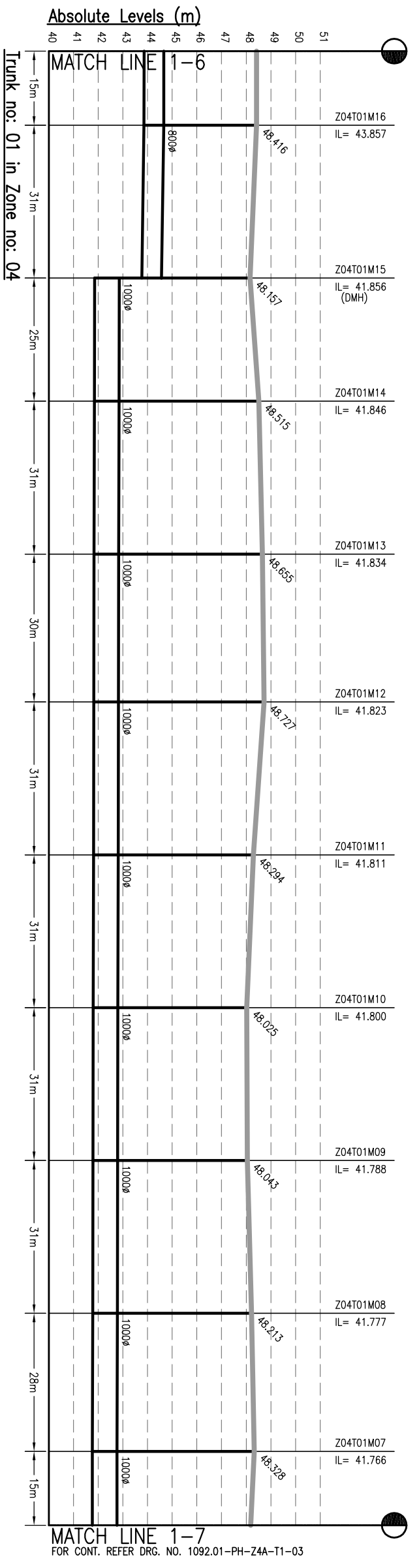
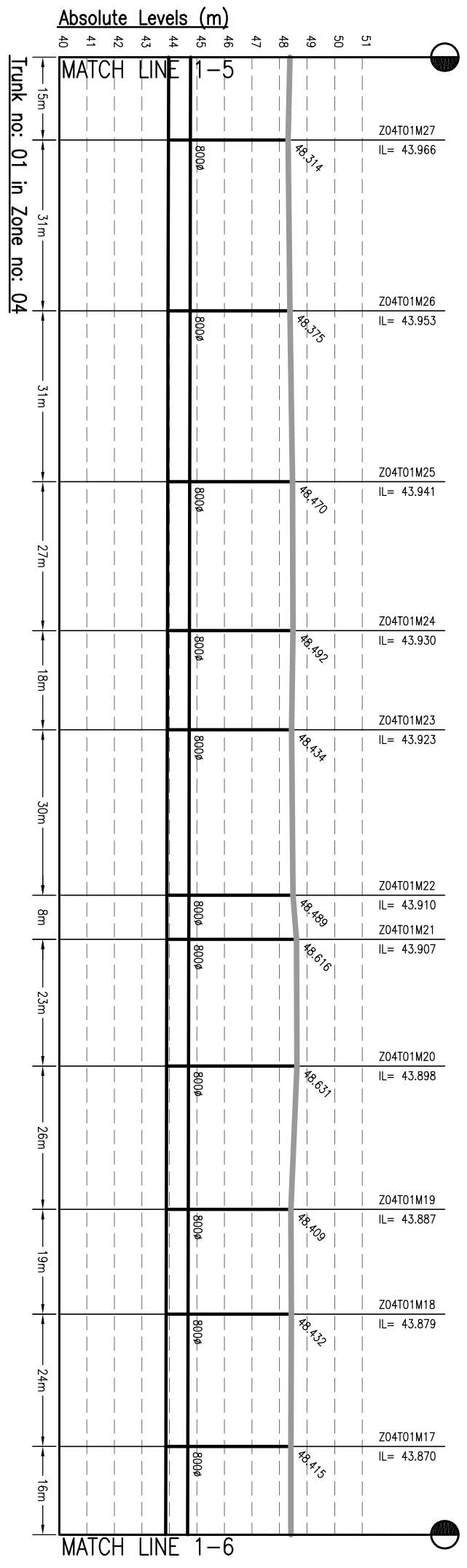
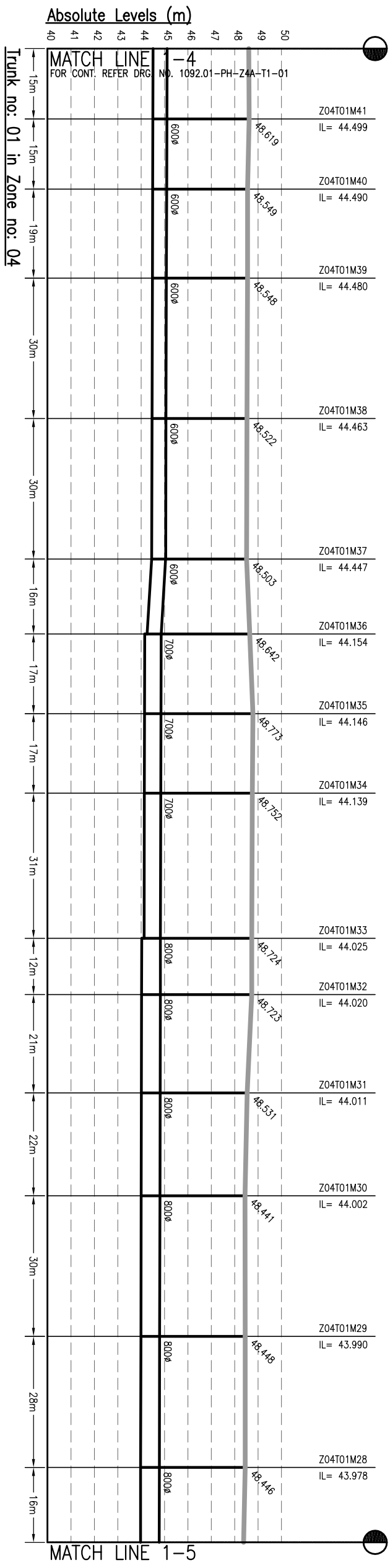
DRAWING TITLE
 SEWERAGE L-SECTION OF TRUNK ZONE -4A, TRUNK -1 (SPS-B) (1 OF 3)

PURPOSE OF ISSUE
 DRAFT DETAILED PROJECT REPORT

SCALE: H-1:1000, V-200

DESIGNED	CHECKED	APPROVED	DISCIPLINE	REVISION
JR	RP	RP	PH	00

DRAWING NO. Z4A-T1-01



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Drawing Base Reference:
PMC WORK ORDER 3499, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
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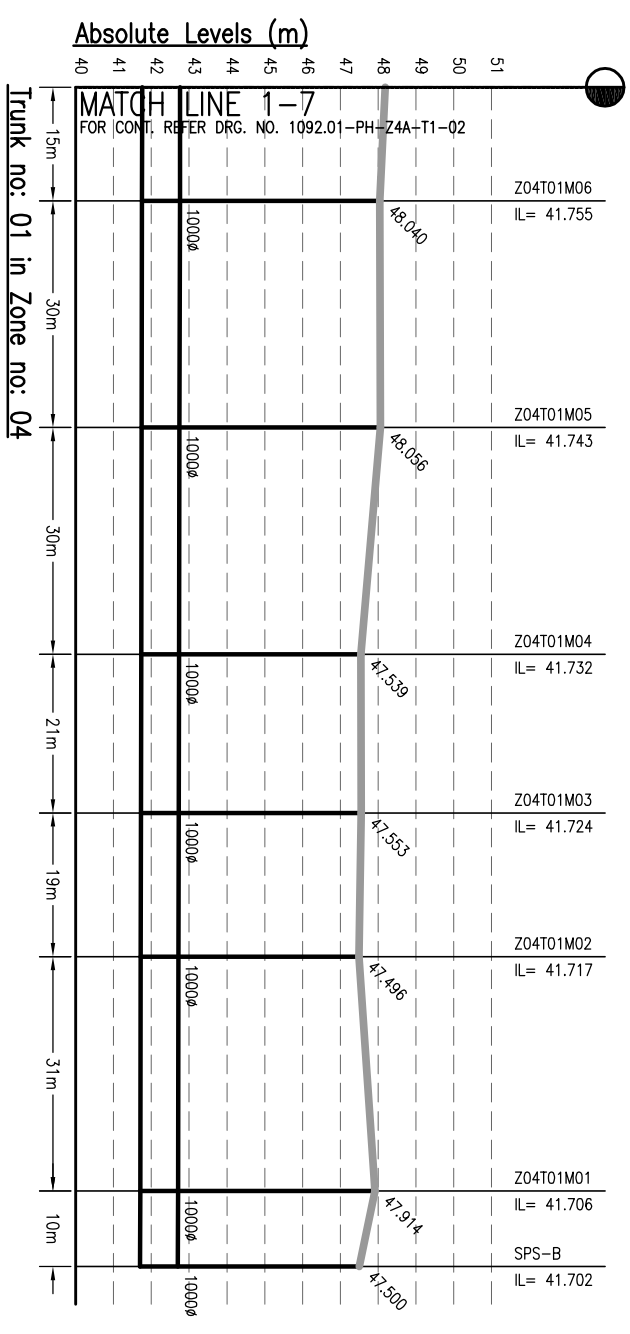
CLIENT:-
BIHAR
URBAN INFRASTRUCTURE
DEVELOPMENT CORPORATION

PROJECT:-
PREPARATION OF DETAILED
PROJECT REPORTS (DPRS) & BID
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DRAINAGE PROJECTS OF PATNA
UNDER JNNURM

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DRAWING TITLE
SEWERAGE
L-SECTION OF TRUNK
ZONE-4A, TRUNK-1 (SPS-B)
(2 OF 3)

DESIGNED	CHECKED	APPROVED	JOB NO.
JR	RP	CRR	1092.01
DATE	DATE	DATE	DISCIPLINE
MAY 2013	MAY 2013	MAY 2013	PH
SCALE: H-1000, V-200	SHEET SIZE: A3	DATE OF FIRST ISSUE	DRAWING NO.
DATE OF FIRST ISSUE	DATE OF FIRST ISSUE	DATE OF FIRST ISSUE	Z4A-T1-02
DATE OF FIRST ISSUE	DATE OF FIRST ISSUE	DATE OF FIRST ISSUE	REVISION
DATE OF FIRST ISSUE	DATE OF FIRST ISSUE	DATE OF FIRST ISSUE	00



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Drawing Base Reference:-
PKC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP

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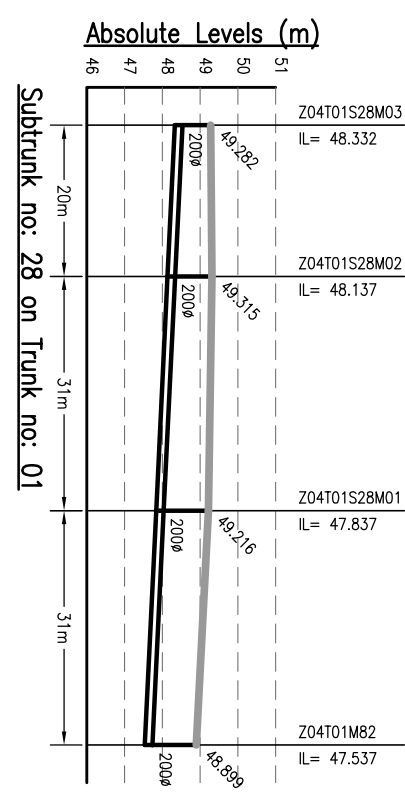
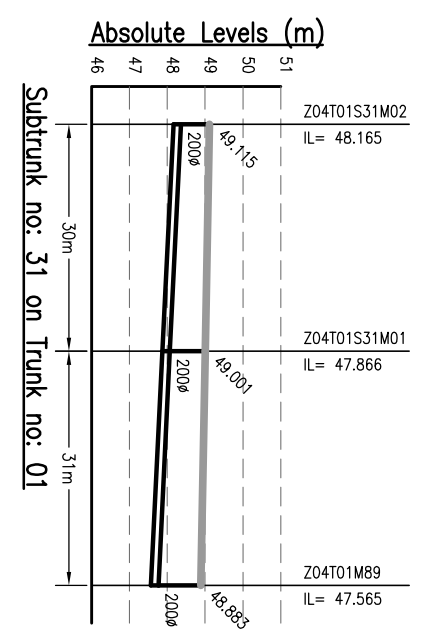
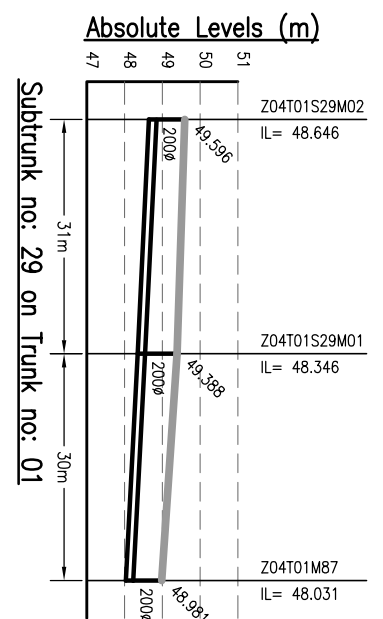
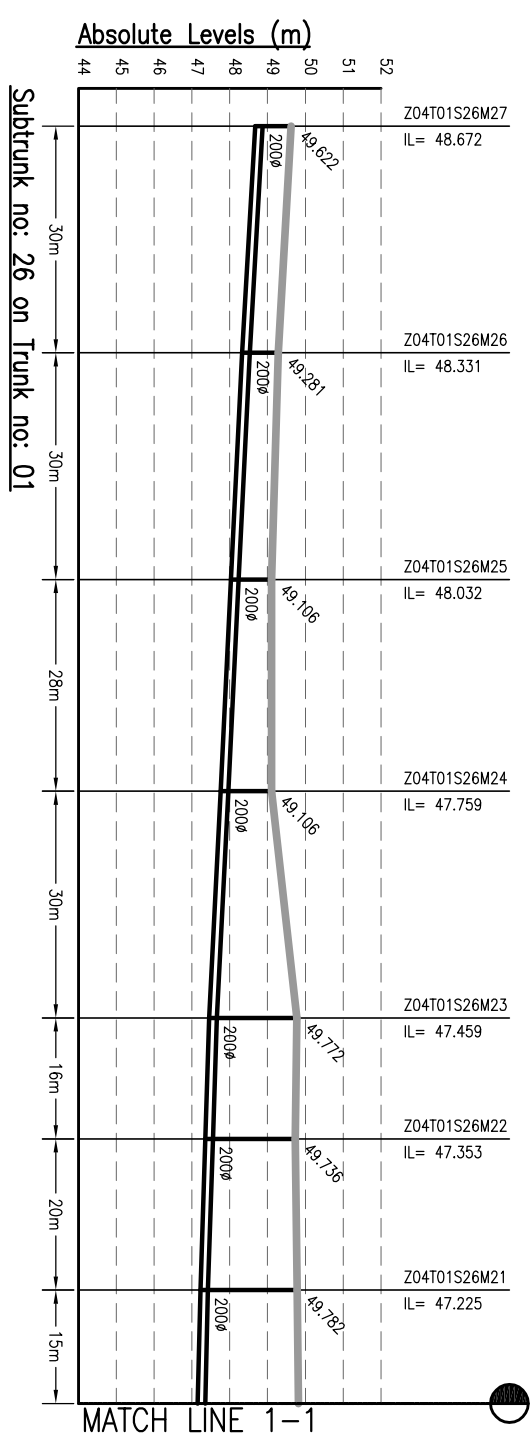
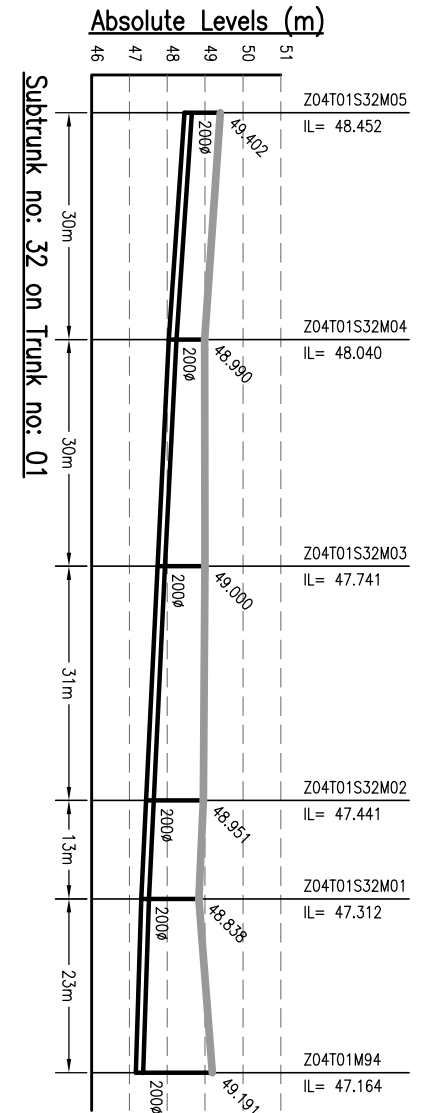
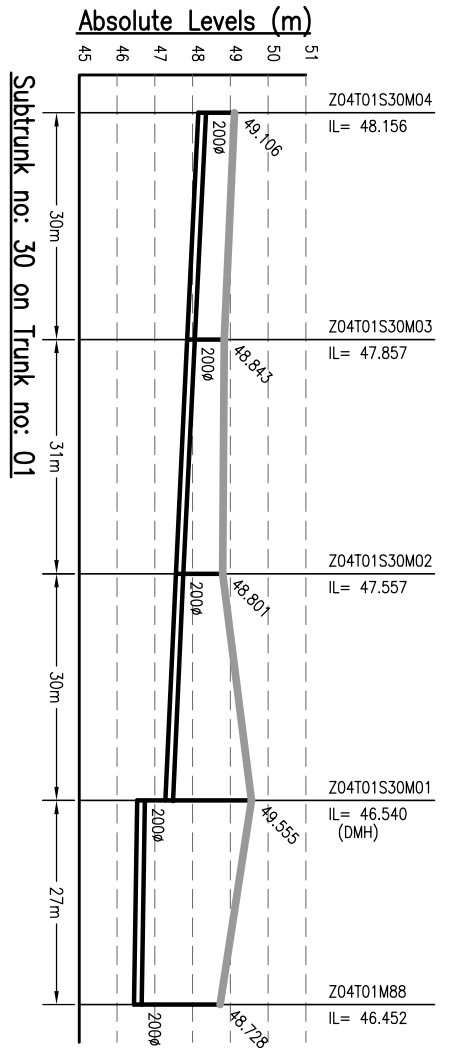
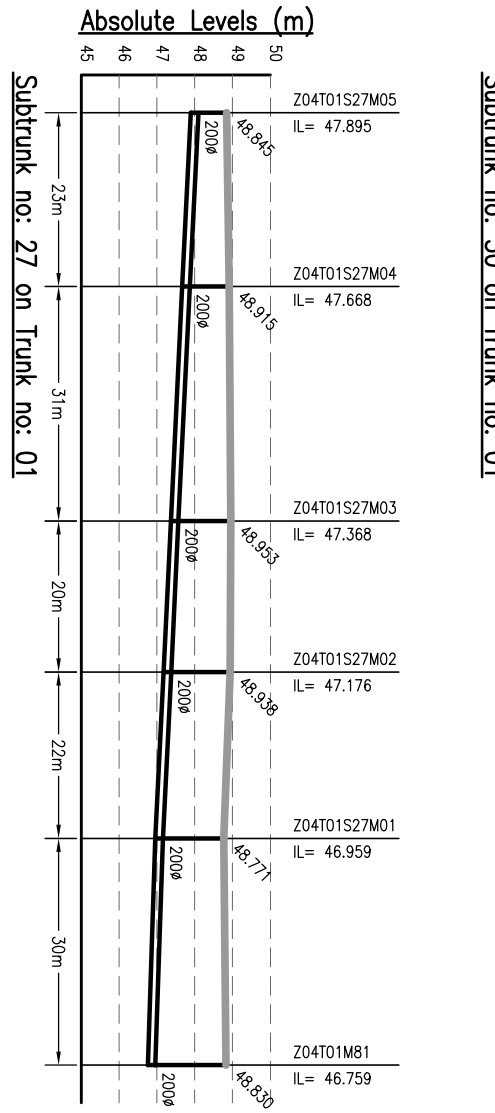
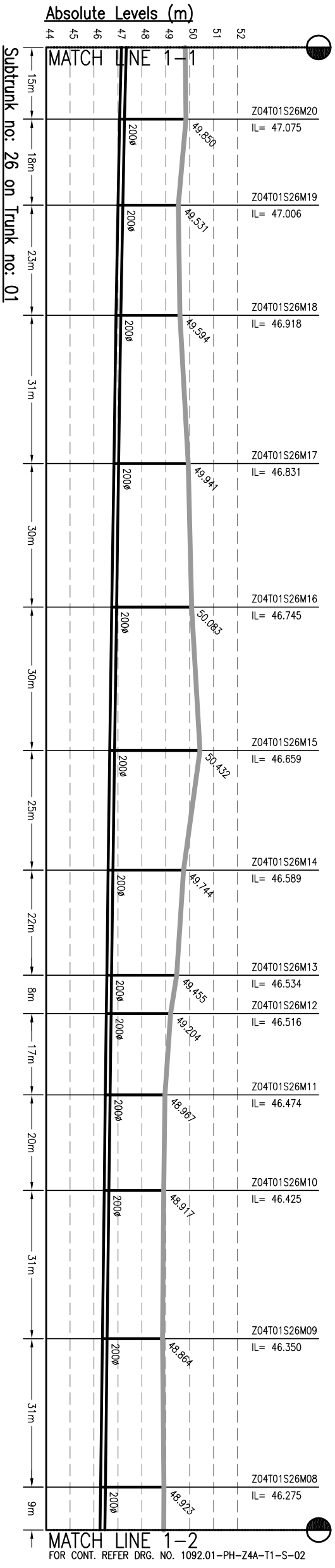
PROJECT:-
 PREPARATION OF DETAILED
 PROJECT REPORTS (DPRS) & BID
 DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION &
 QUALITY CONTROL OF SEWERAGE &
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 UNDER JNNURM

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DRAWING TITLE
 SEWERAGE
 L-SECTION OF TRUNK
 ZONE-4A, TRUNK-1 (SPS-B)

JOB NO.	DISCIPLINE	DRAWING NO.	REVISION
1092.01	PH	Z4A-T1-03	00



MATCH LINE 1-2
FOR CONT. REFER DRG. NO. 1092.01-PH-Z4A-T1-S-02

MATCH LINE 1-1

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Drawing Base Reference:
PWC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SNS	DRAFT DPR SUBMISSION	RP

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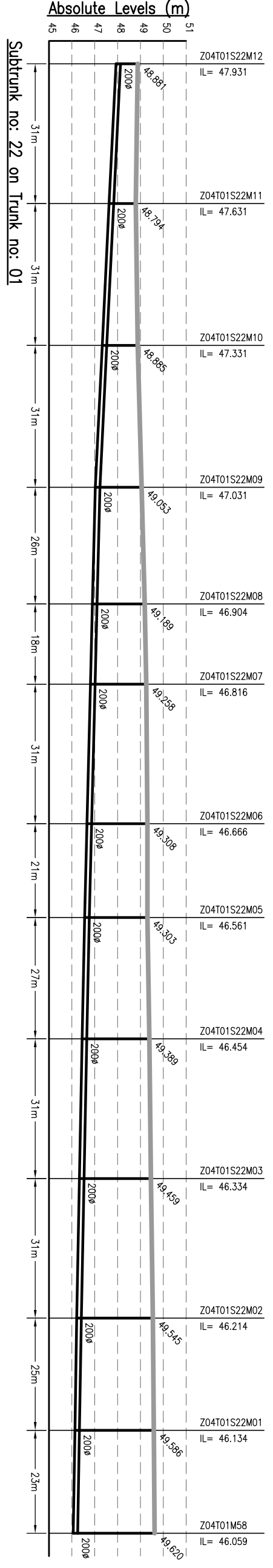
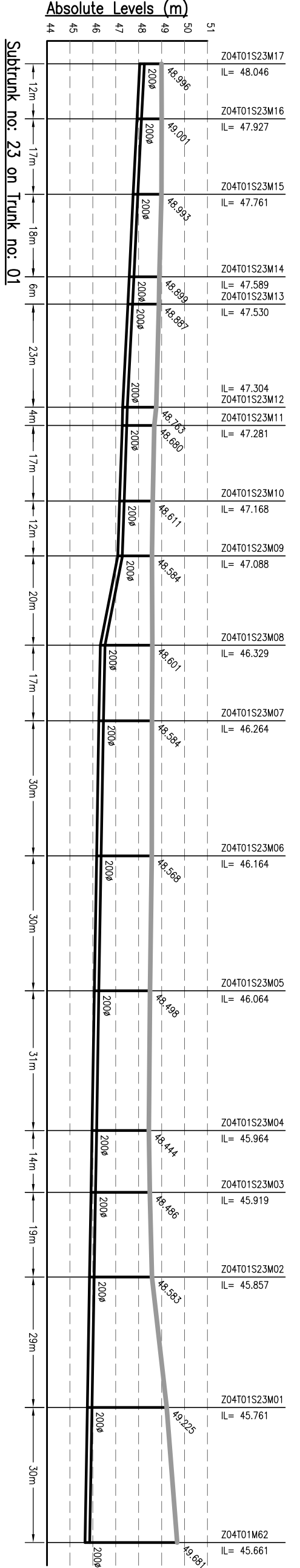
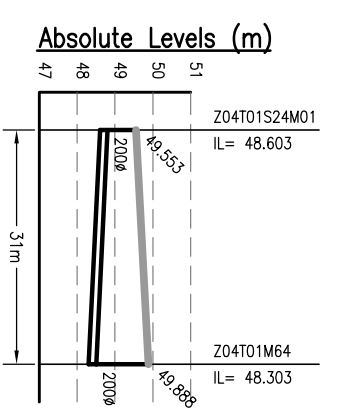
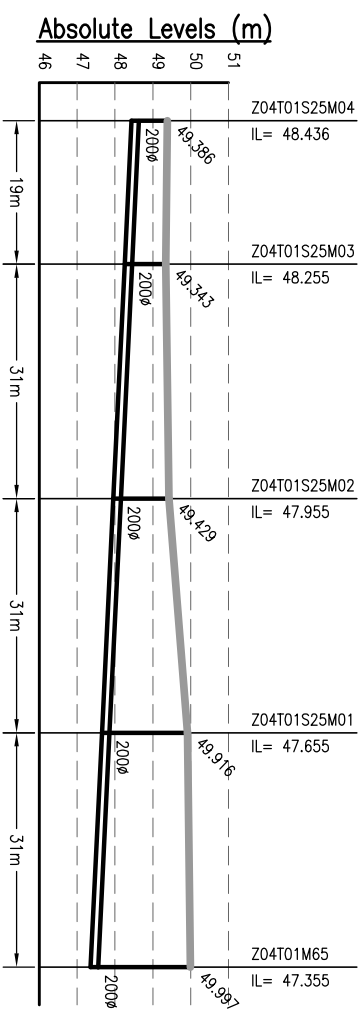
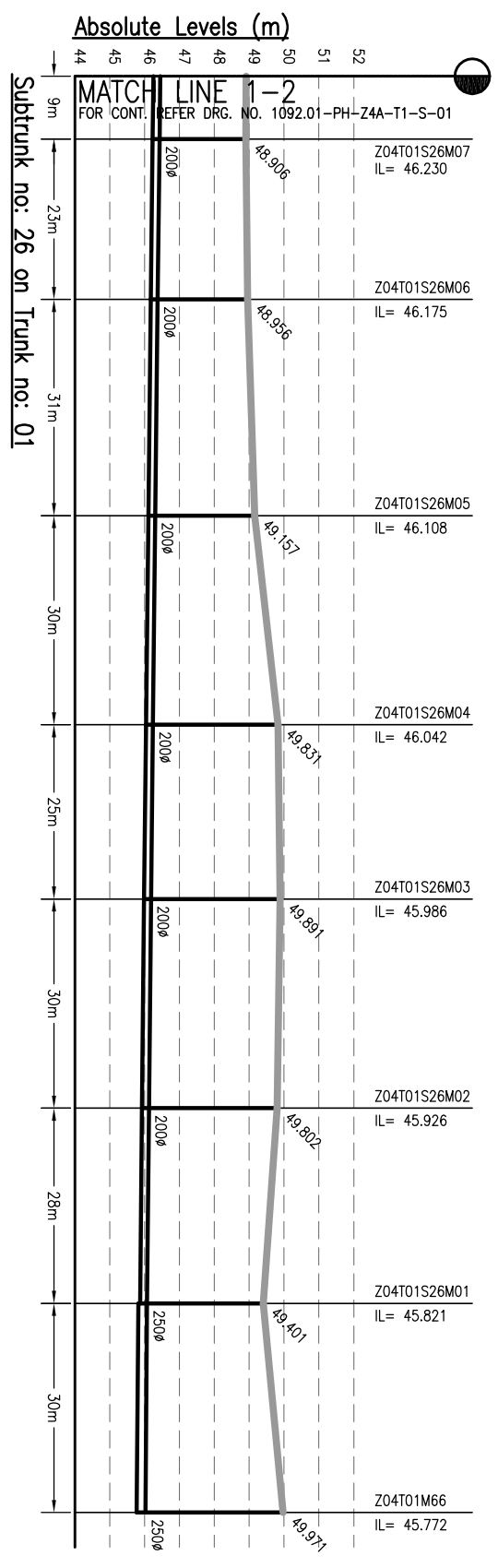
CLIENT:-
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PROJECT:-
PREPARATION OF DETAILED
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DRAWING TITLE
SEWERAGE
L-SECTION OF SUBTRUNK
ZONE-4A, TRUNK-1 (SPS-B)
(PART - 1 OF 12)

DISCIPLINE	NO.	DATE	REVISION
PH	Z4A-T1-S-01	MAY 2013	00




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00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP

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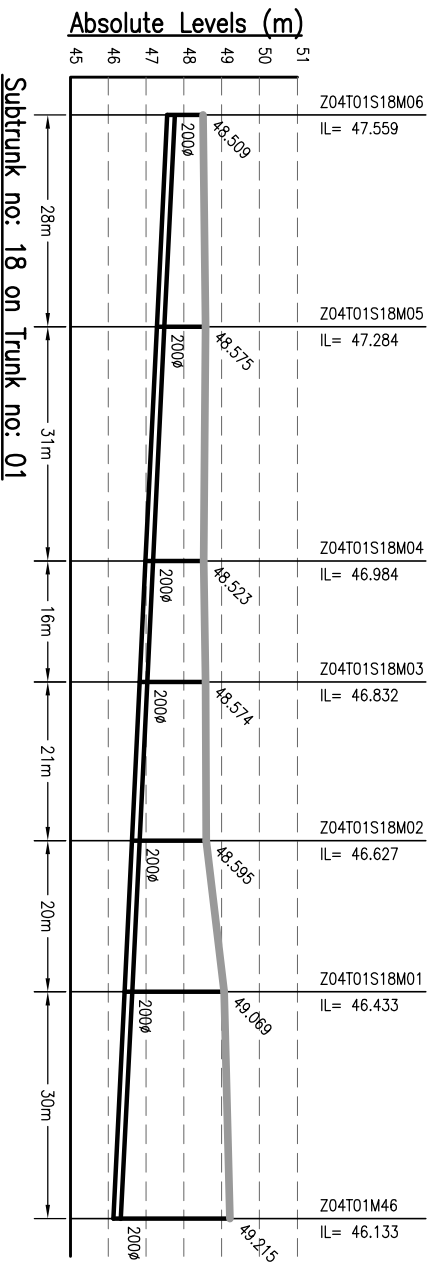
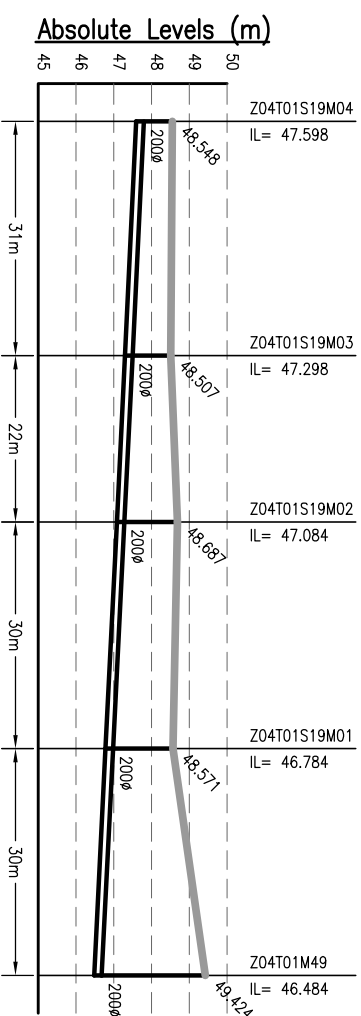
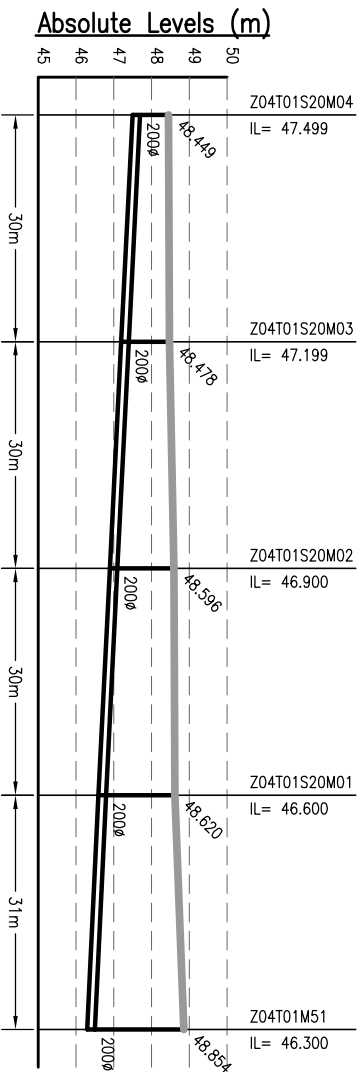
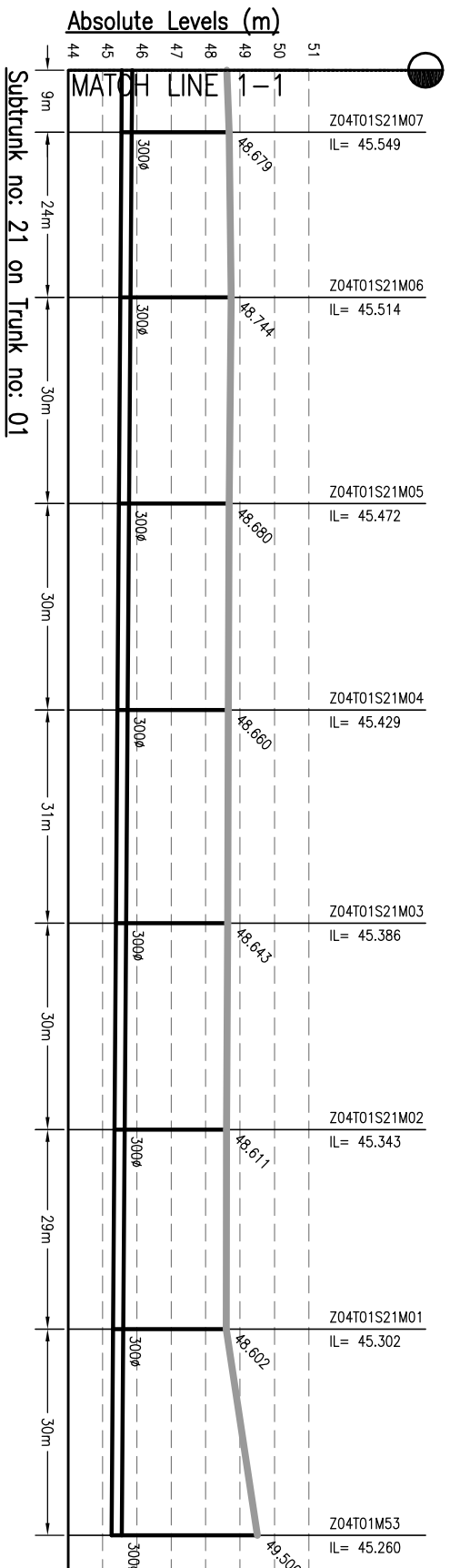
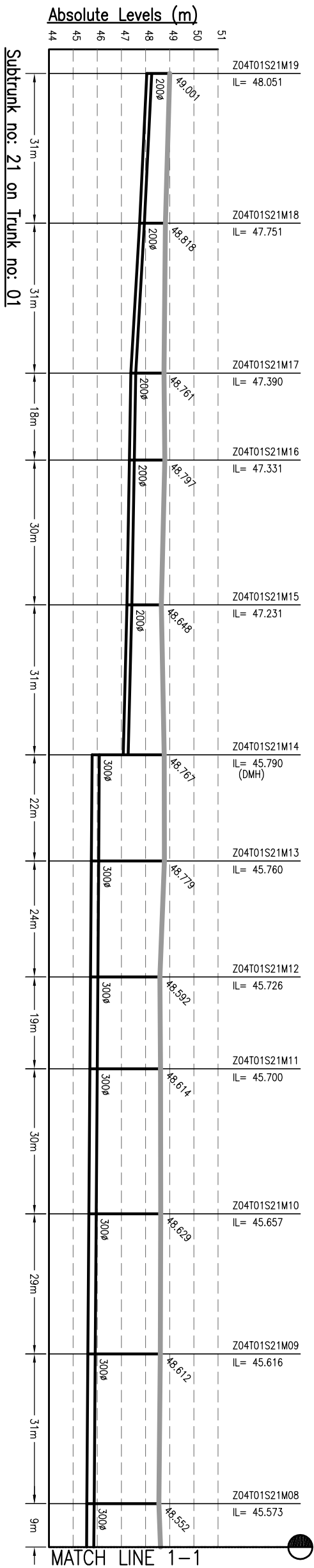
DRAWING TITLE
L-SECTION OF SUBTRUNK ZONE-4A, TRUNK-1 (SPS-B)
 (Part - 2 of 12)

DISCIPLINE	NO.	REVISION
PH	Z4A-T1-S-02	00

DATE	BY	SCALE
MAY 2013	SKS	H=1000, V=200

DATE OF FIRST ISSUE	SHEET SIZE
MAY 2013	A3

DISCIPLINE	NO.	REVISION
PH	Z4A-T1-S-02	00




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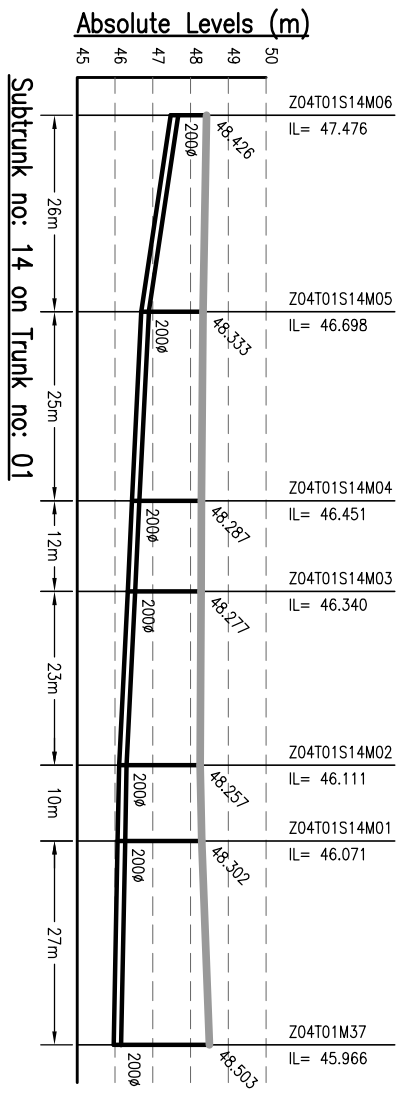
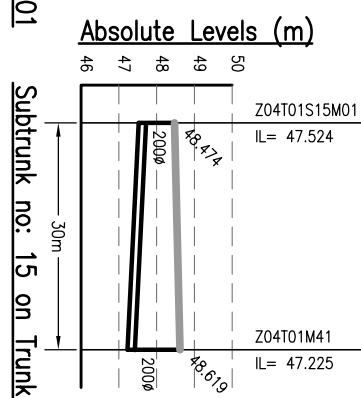
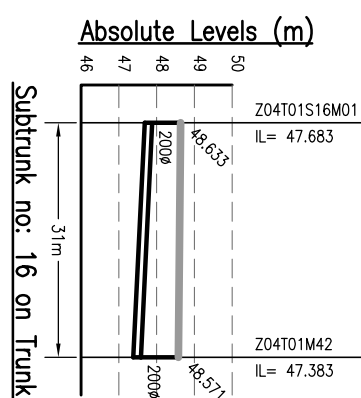
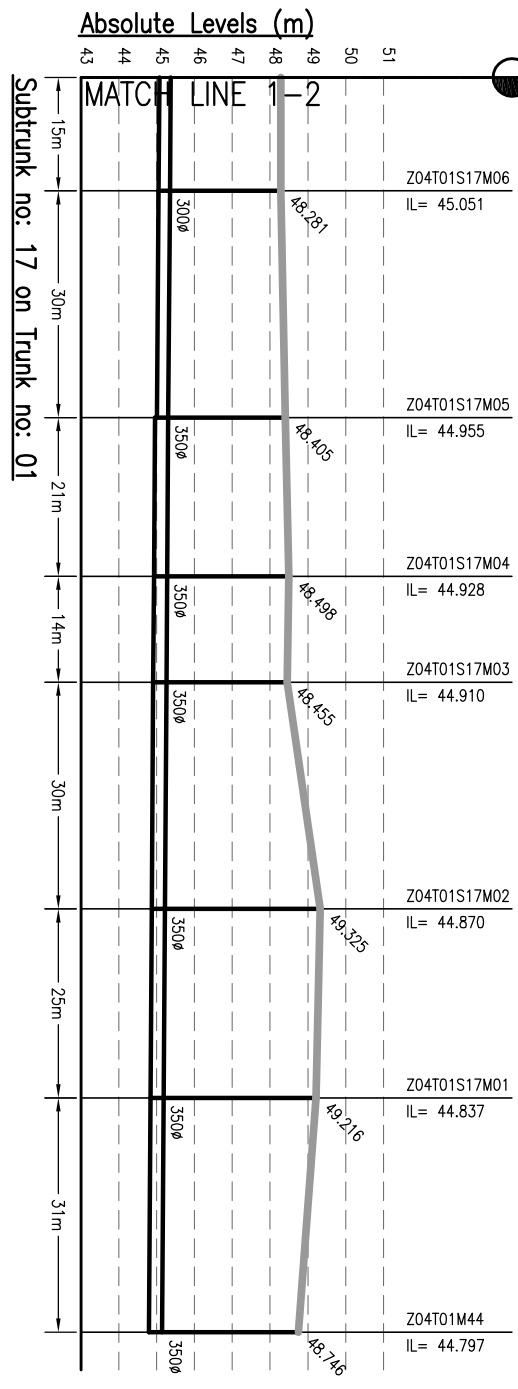
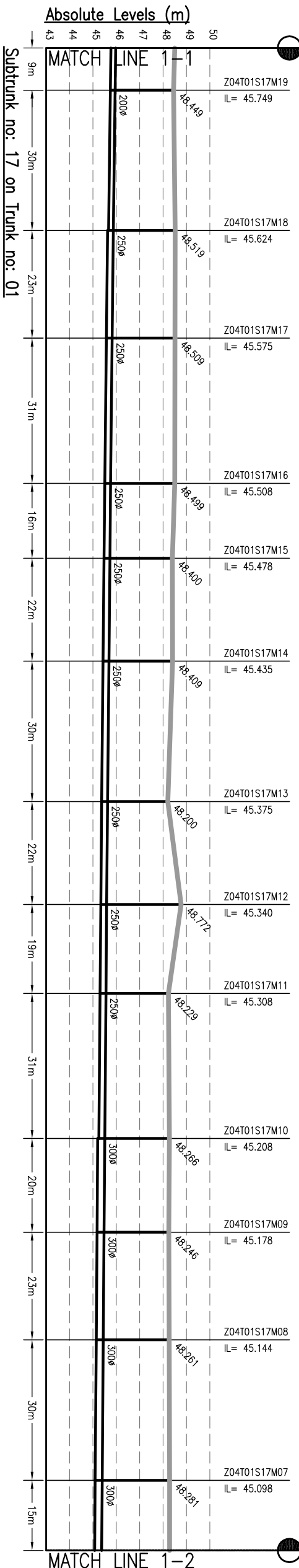
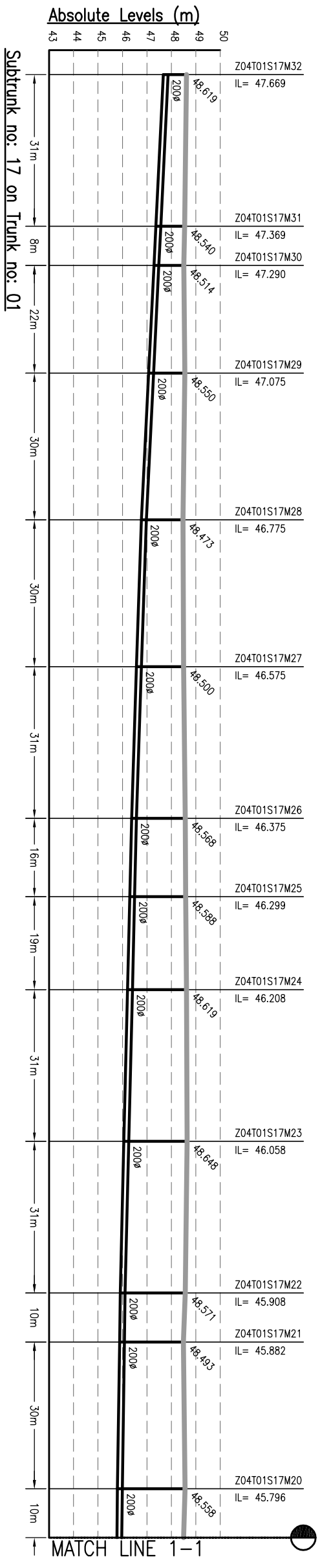
PROJECT:-
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DRAWING TITLE
SEWERAGE
L-SECTION OF SUBTRUNK
ZONE-4A, TRUNK-1 (SPS-B)
 (PART - 3 OF 12)

DISCIPLINE	NO.	DATE	REVISION
PH	Z4A-11-S-03	MAY 2013	00



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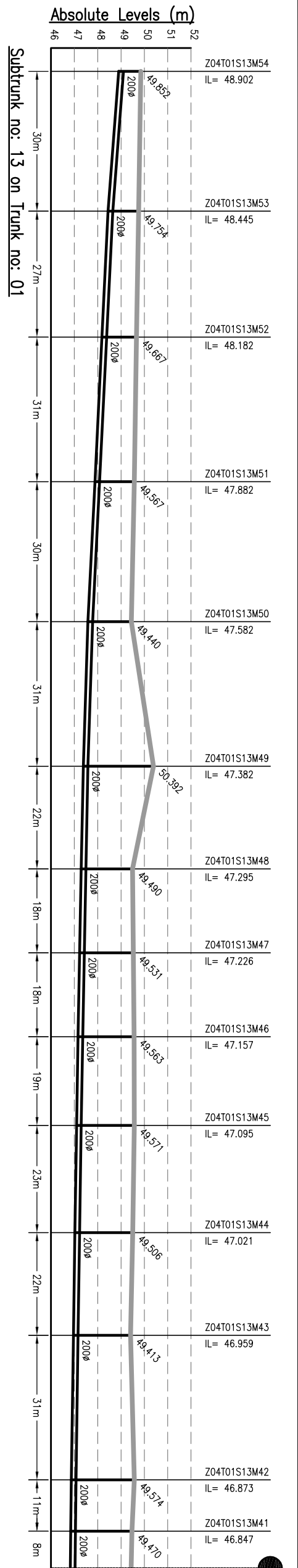
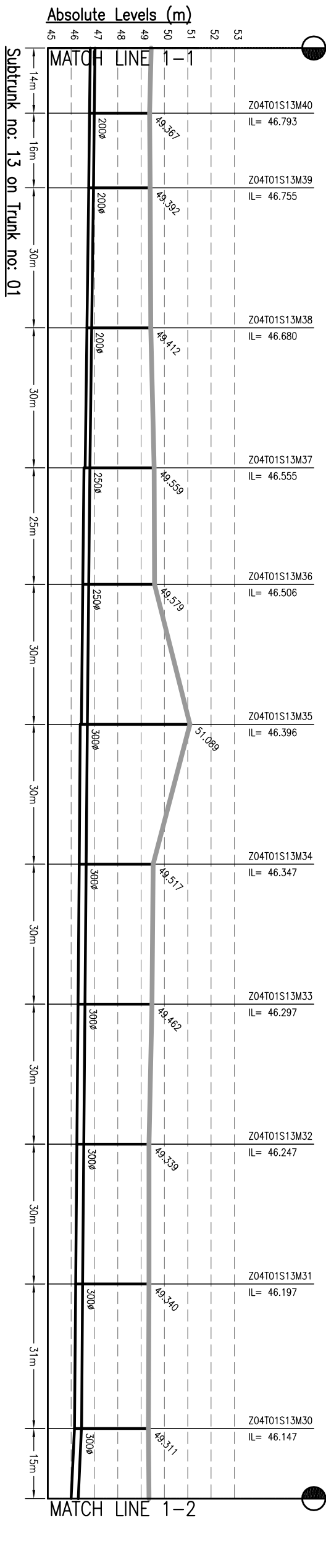
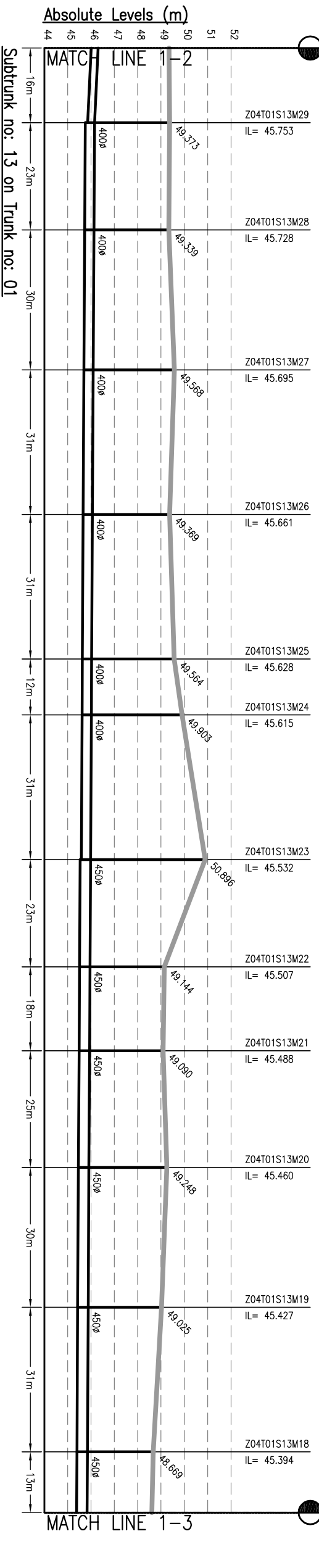
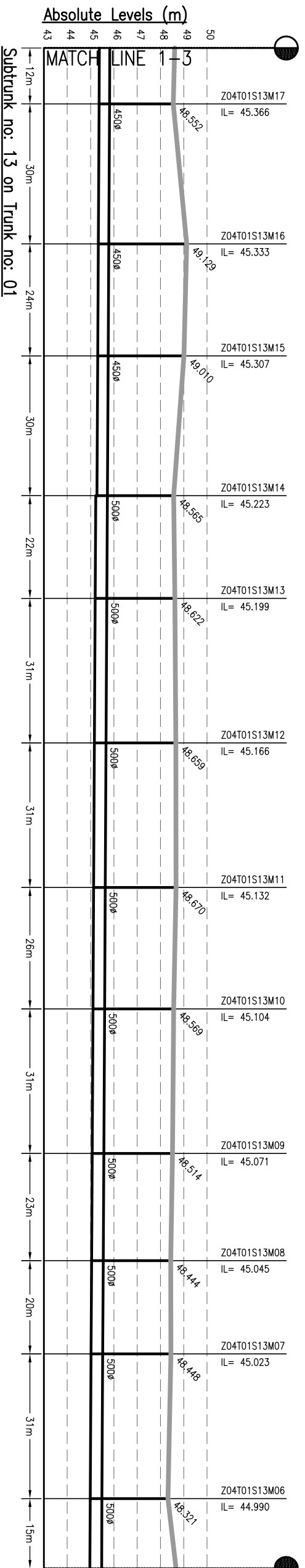
CLIENT:-
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 Website: www.bidc.gov.in

PROJECT:-
 PREPARATION OF DETAILED
 PROJECT REPORTS (IDPRs) & BID
 DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION &
 QUALITY CONTROL OF SEWERAGE &
 DRAINAGE PROJECTS OF PATNA
 UNDER JNNURM

CONSULTANT:-
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DRAWING TITLE
 SEWERAGE
 L-SECTION OF SUBTRUNK
 ZONE-4A, TRUNK-1 (SPS-B)

DISCIPLINE	NO.	DATE	REVISION
PH	Z4A-11-S-04	MAY 2013	00



FOR CONT. REFER DRG. NO. 1092.01-PH-Z4A-T1-S-06

JOB NO.	1092.01	DISCIPLINE	PH	DRAWING NO.	Z4A-T1-S-05	REVISION	00
DRAWN	SKS	DATE	MAY 2013	CHECKED	JR	DATE	MAY 2013
DESIGNED	JR	DATE	MAY 2013	APPROVED	RP	DATE	MAY 2013

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CONSULTANT:-

BIHAR
 URBAN INFRASTRUCTURE
 DEVELOPMENT CORPORATION

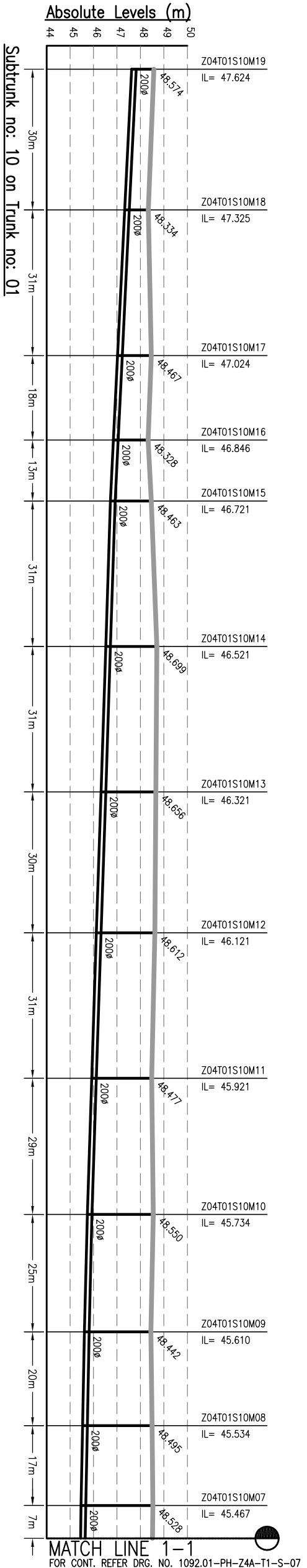
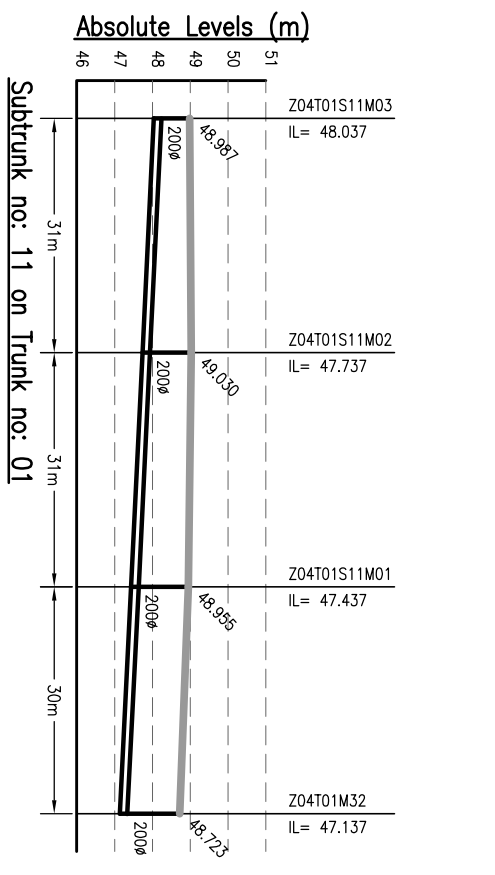
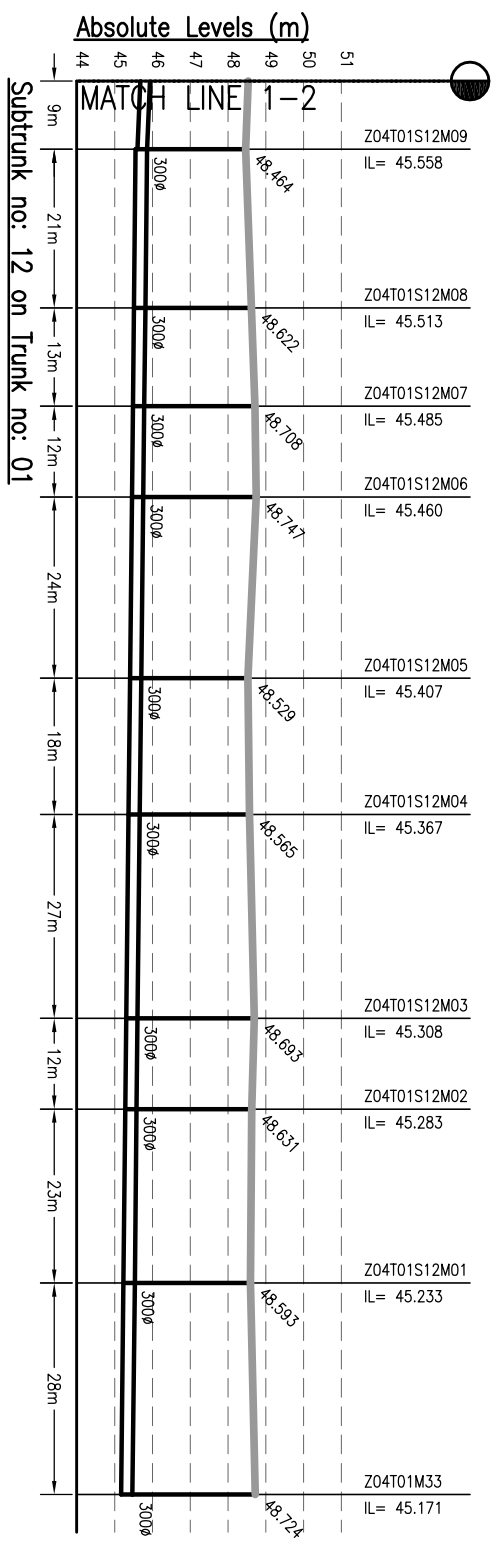
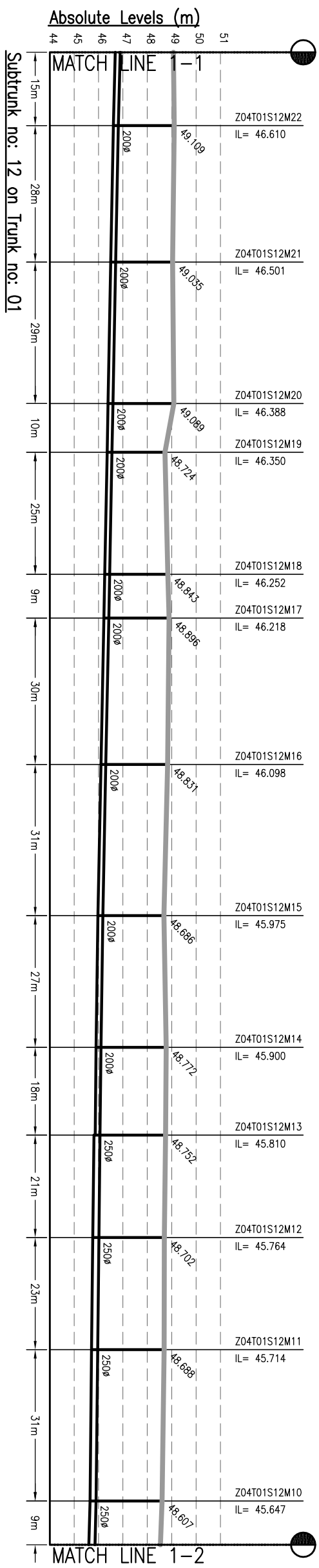
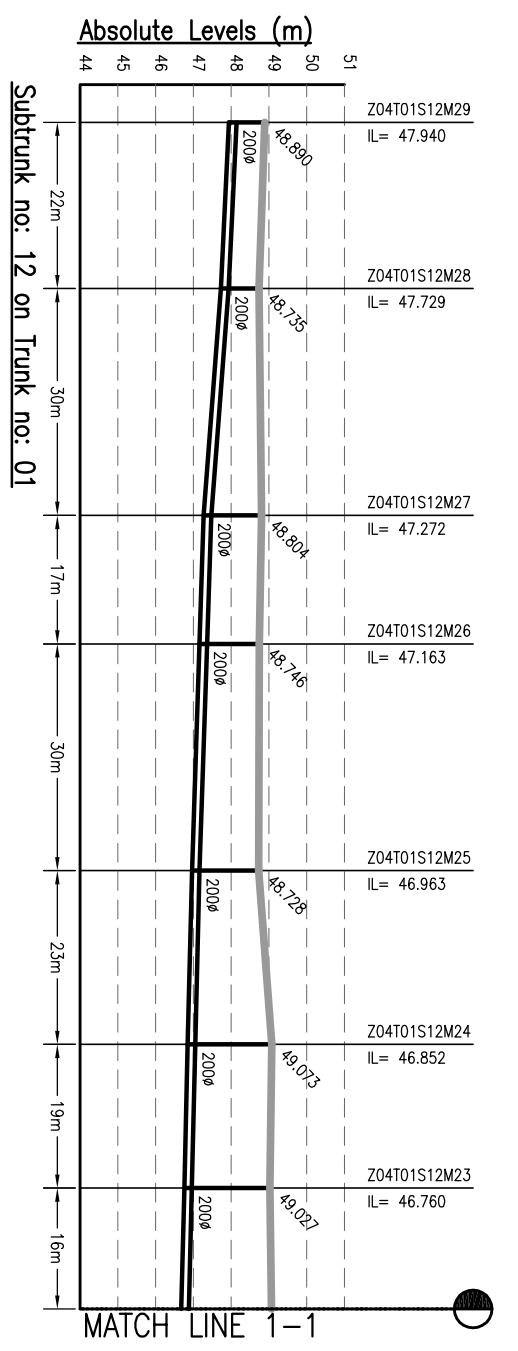
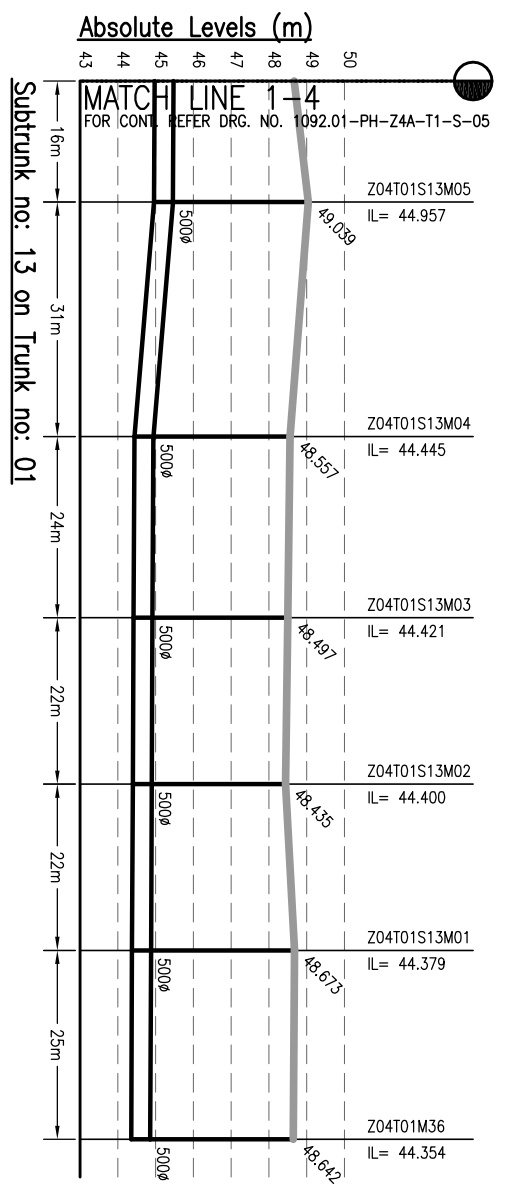
PROJECT:-
 PREPARATION OF DETAILED
 PROJECT REPORTS (DPRS) & BID
 DOCUMENTS;
 TENDERING FOR EXECUTION;
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REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY 13	SNS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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Drawing Base Reference:-
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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 BIHAR
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PROJECT:-
 PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

CONSULTANT:-

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DRAWING TITLE
 SEWERAGE
 L-SECTION OF SUBTRUNK
 ZONE-4A, TRUNK-1 (SPS-B)
 (PART - 6 OF 12)

PURPOSE OF ISSUE
 DRAFT DETAIL PROJECT REPORT

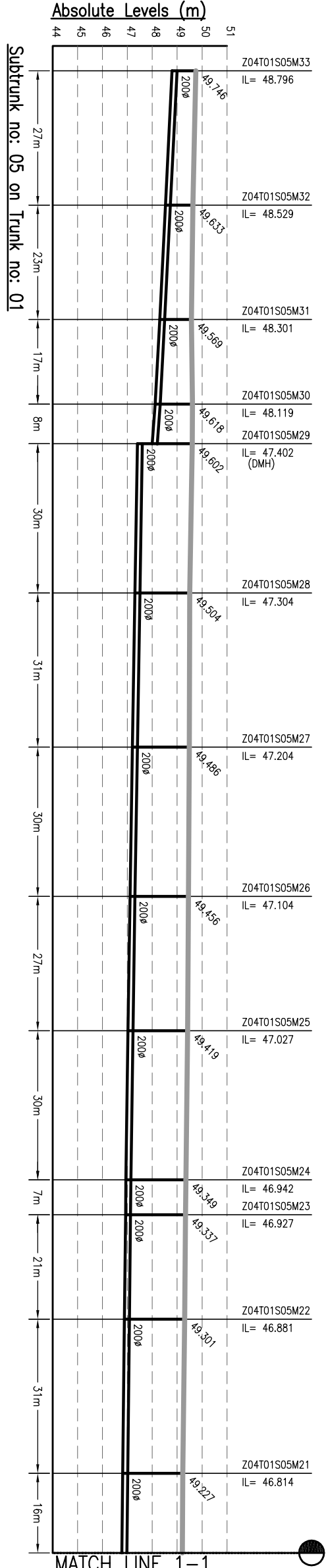
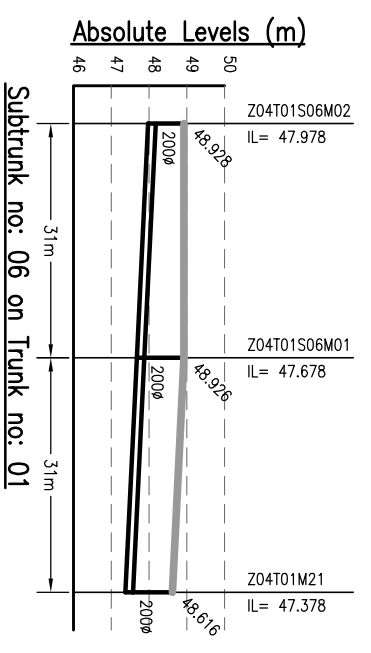
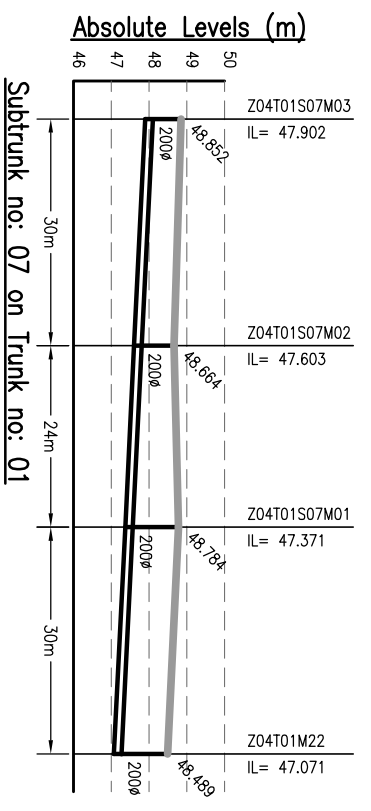
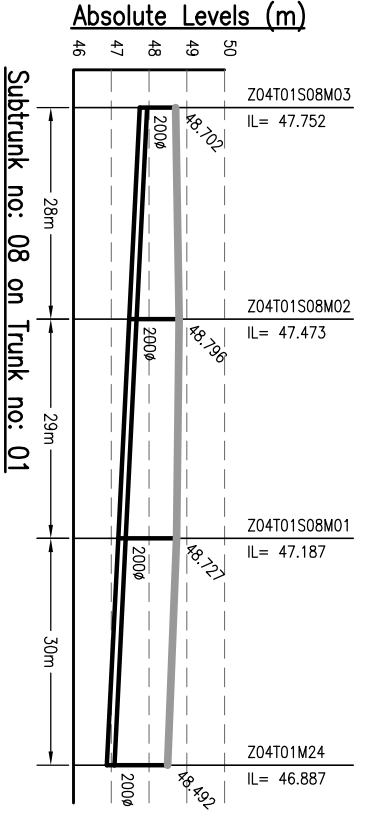
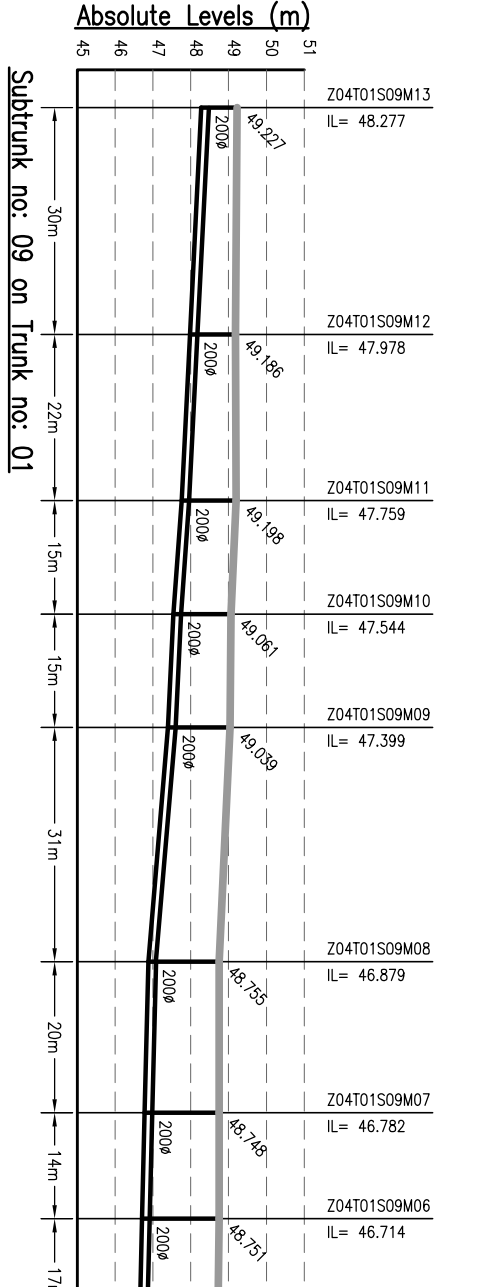
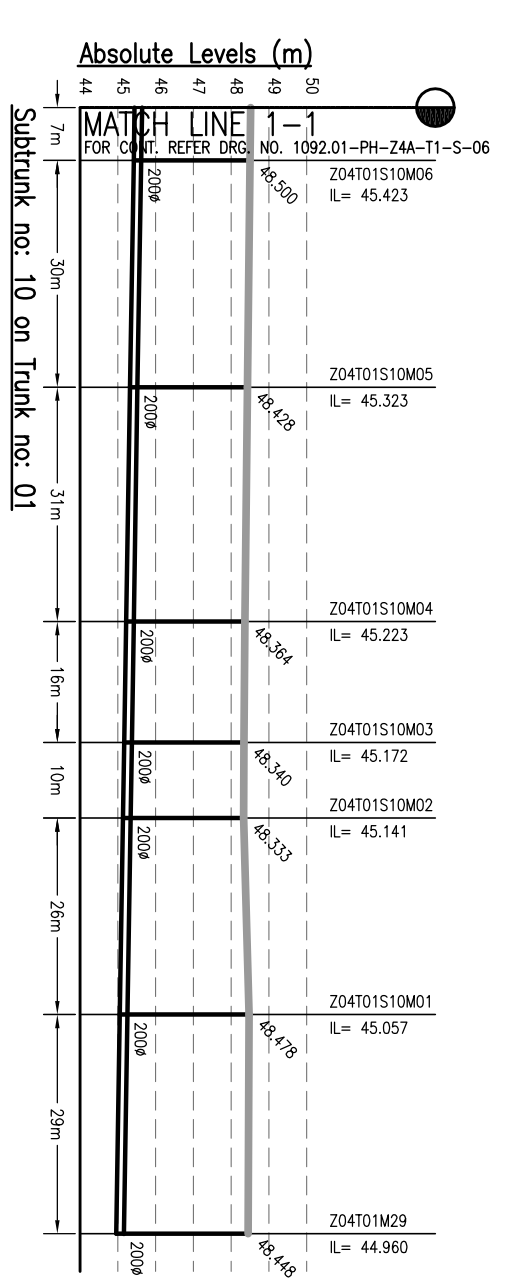
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SHEET SIZE : A3

DATE OF FIRST ISSUE

DESIGNED : SKS
CHECKED : JR
APPROVED : RP
DATE : MAY 2013

DISCIPLINE : CRR
JOB NO. : 1092.01
PH : Z4A-T1-S-06
REVISION : 00



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 4. REFER DRAWING NO. TO 491 & 1092.01-PH-S-01 TO 491 FOR LOCATION OF MANHOLE AND OTHER DETAILS.


Drawing Base Reference:-
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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TENDERING FOR EXECUTION;
CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

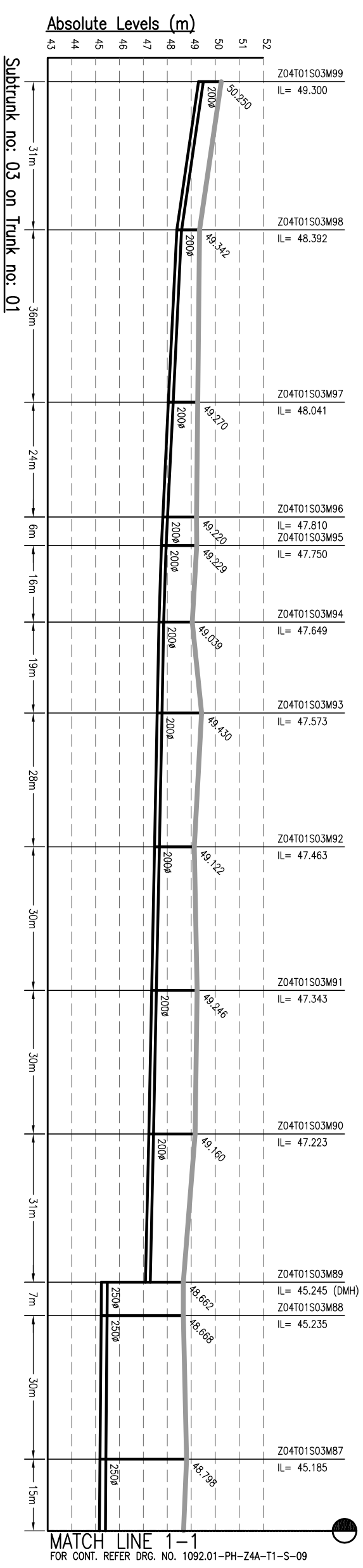
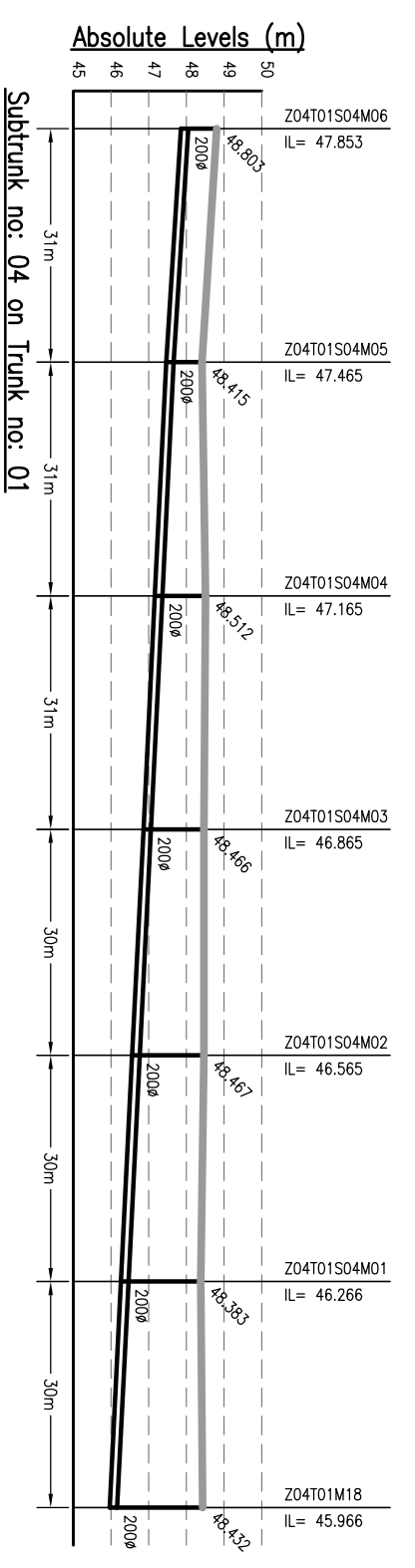
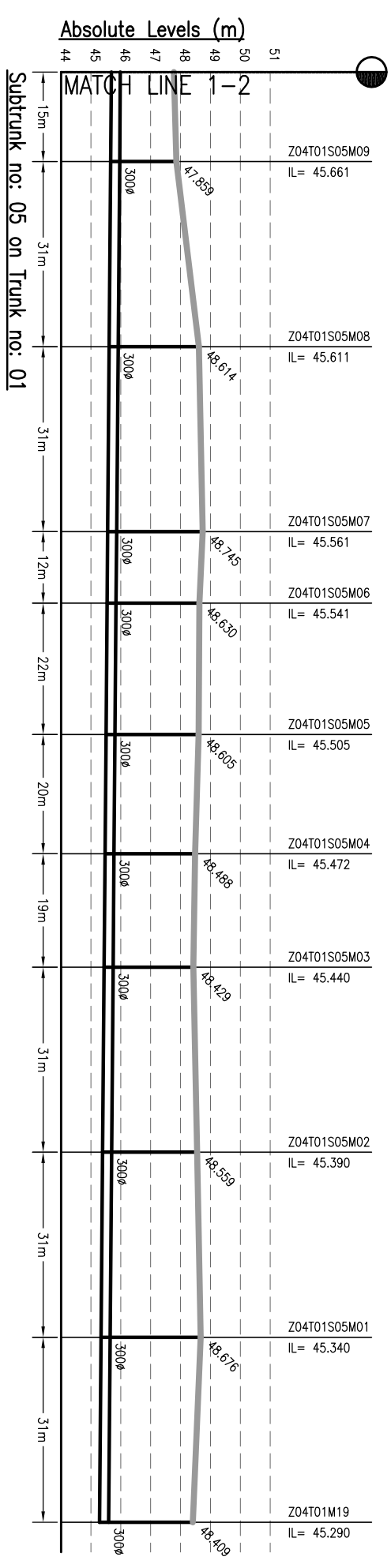
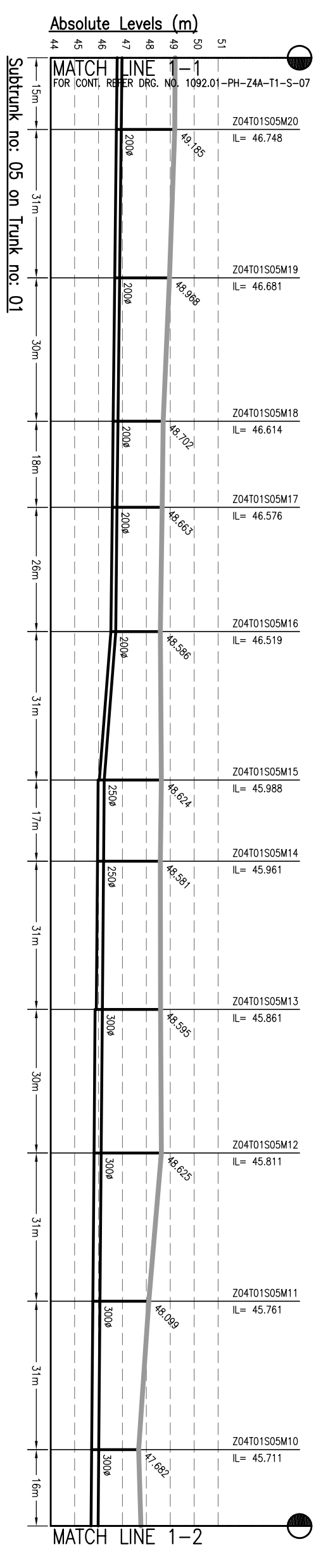
CONSULTANT:-


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DRAWING TITLE
SEWERAGE
L-SECTION OF SUBTRUNK
ZONE-4A, TRUNK-1 (SPS-B)
(PART - 7 OF 12)

DISCIPLINE	DATE OF FIRST ISSUE	SCALE
DRAWN	MAY 2013	H=1000, V=200
DESIGNED	MAY 2013	
CHECKED	MAY 2013	
APPROVED	MAY 2013	

JOB NO.	DISCIPLINE	DRAWING NO.	REVISION
1092.01	PH	Z4A-T1-S-07	00



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 4. REFER DRAWING NO. TO 491 & 1092.01-PH-S-01 TO 491 FOR LOCATION OF MANHOLE AND OTHER DETAILS.

Drawing Base Reference:
PWC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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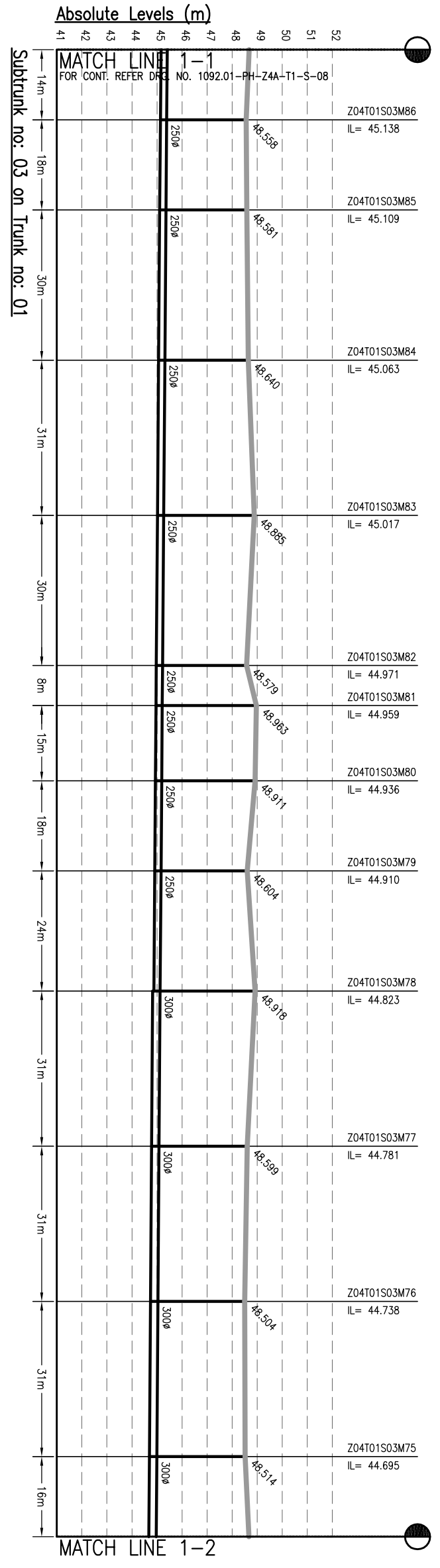
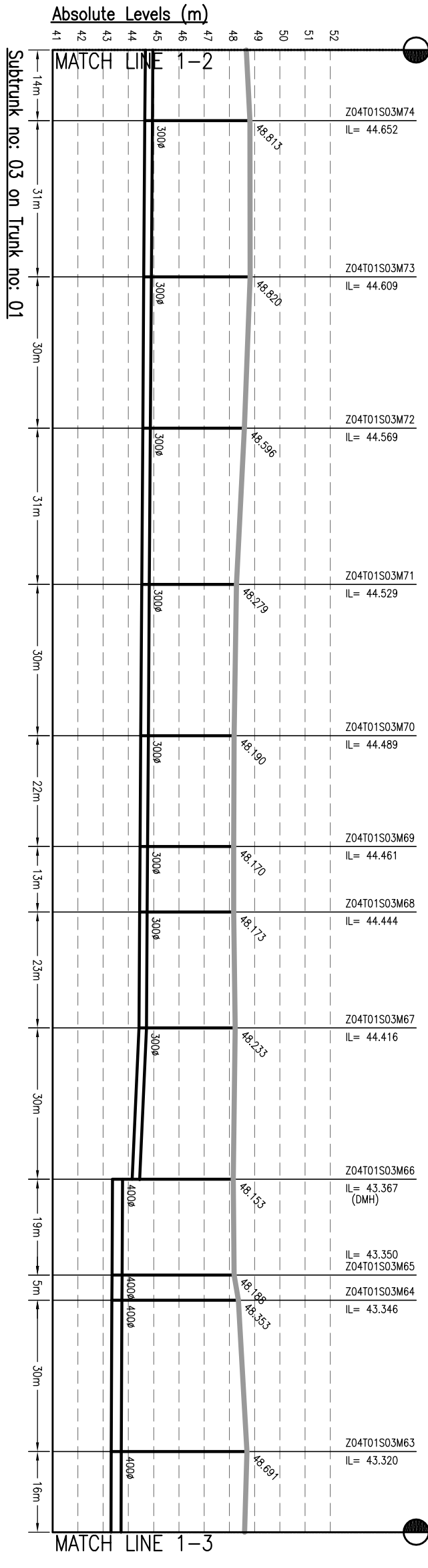
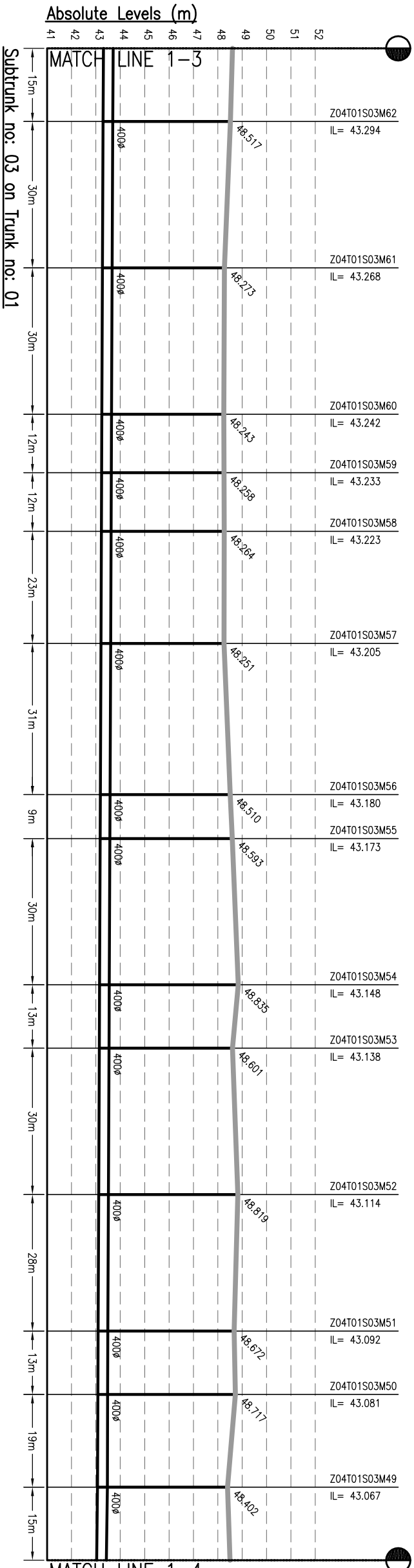
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DRAWING TITLE
 SEWERAGE L-SECTION OF SUBTRUNK ZONE-4A, TRUNK-1 (SPS-B) (PART - 8 OF 12)

JOB NO.	DISCIPLINE	DRAWING NO.	REVISION
1092.01	PH	Z4A-T1-S-08	00



MATCH LINE 1-4
FOR CONT. REFER DRG. NO. 1092.01-PH-Z4A-T1-S-10

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- REFER DRAWING NO. TO 491 & 1092.01-PH-S-01 TO 491 FOR LOCATION OF MANHOLE AND OTHER DETAILS.

Drawing Base Reference:-
PHC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SNS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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PROJECT:-
PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS; TENDERING FOR EXECUTION; QUALITY CONTROL SUPERVISION & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

CONSULTANT:-
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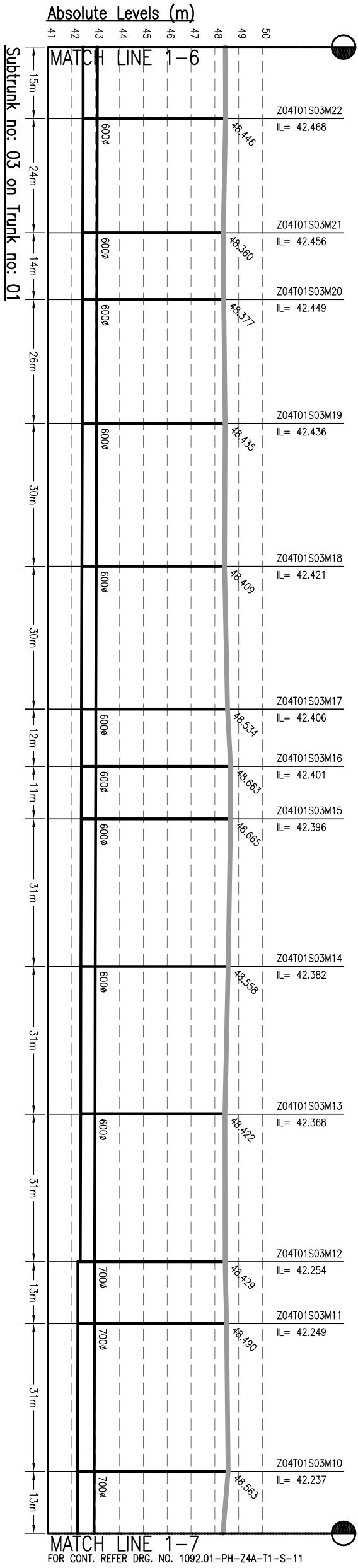
DRAWING TITLE:
SEWERAGE L-SECTION OF SUBTRUNK ZONE-4A, TRUNK-1 (SPS-B) (PART - 9 OF 12)

PURPOSE OF ISSUE:
DRAFT DETAILED PROJECT REPORT

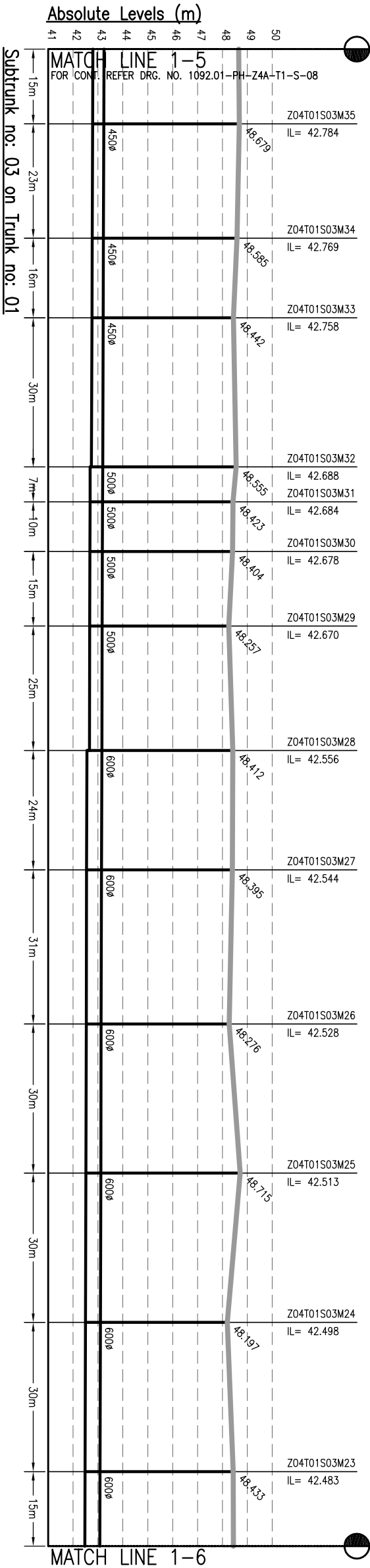
SCALE:- H-1000, V-200
SHEET SIZE: A3

DATE OF FIRST ISSUE	BY	SCALE
MAY 2013	SNS	MAY 2013
MAY 2013	JR	MAY 2013
MAY 2013	RP	MAY 2013
MAY 2013	CRR	MAY 2013

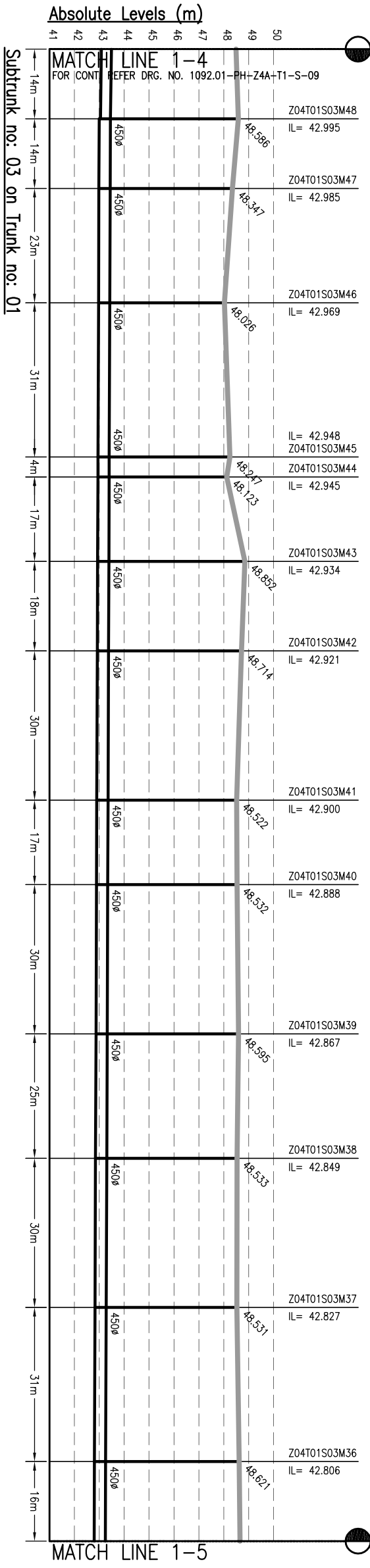
JOB NO. 1092.01 PH Z4A-T1-S-09 DRAWING NO. 00



MATCH LINE 1-7
FOR CONT. REFER DRG. NO. 1092.01-PH-Z4A-T1-S-11



MATCH LINE 1-6



MATCH LINE 1-5

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 4. REFER DRAWING NO. TO 491 & 1092.01-PH-S-01 TO 491 FOR LOCATION OF MANHOLE AND OTHER DETAILS.

Drafting Base Reference:-
PAC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP

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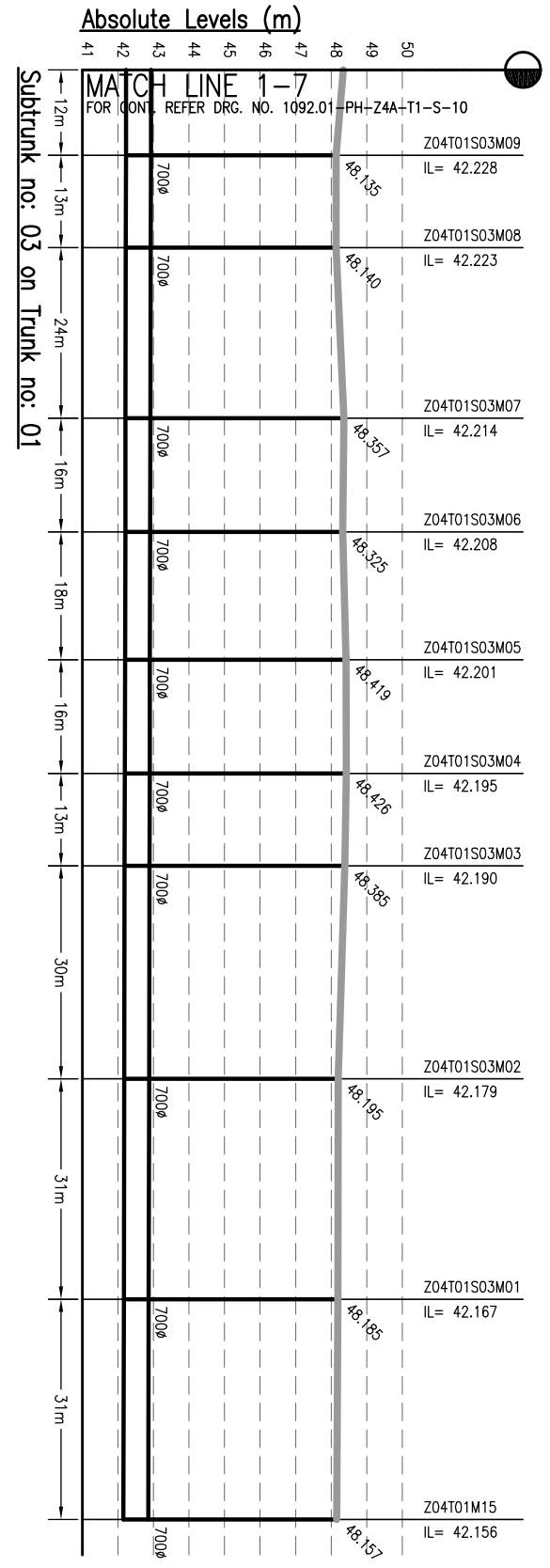
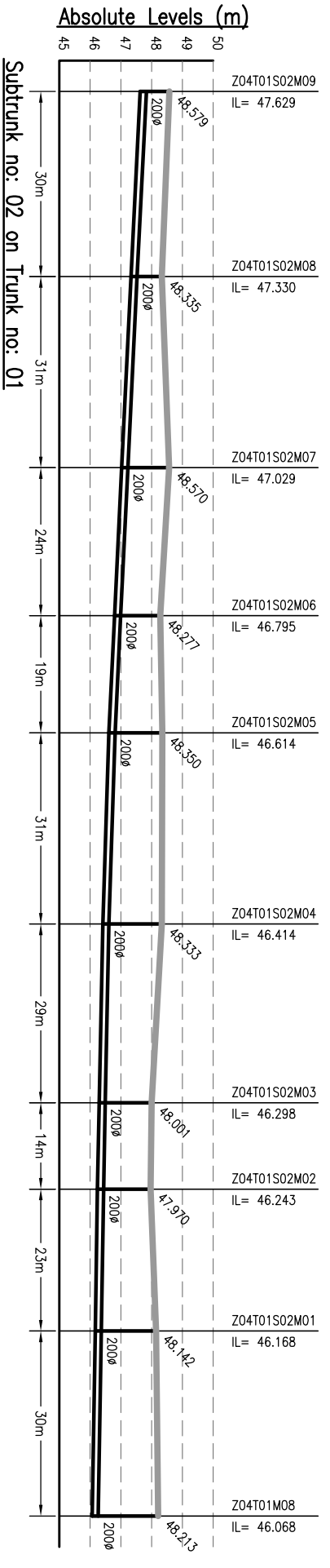
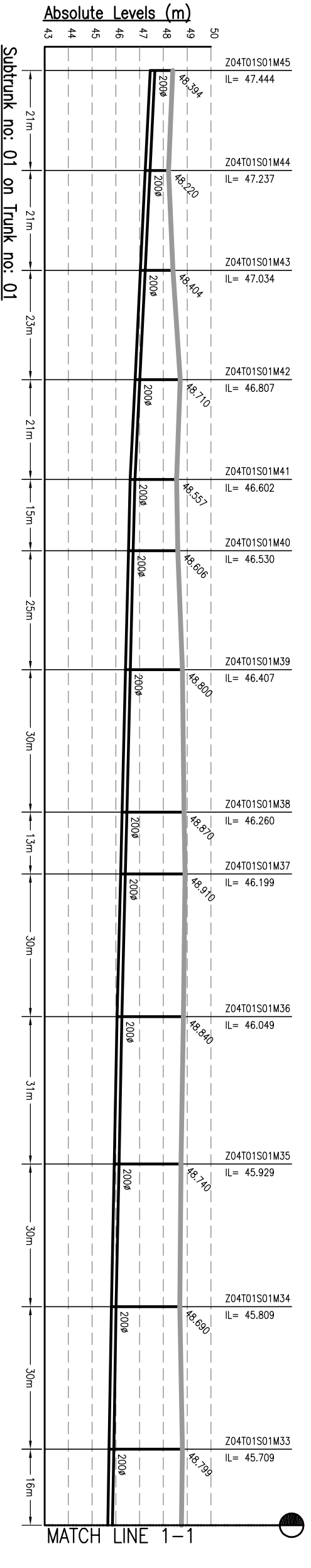
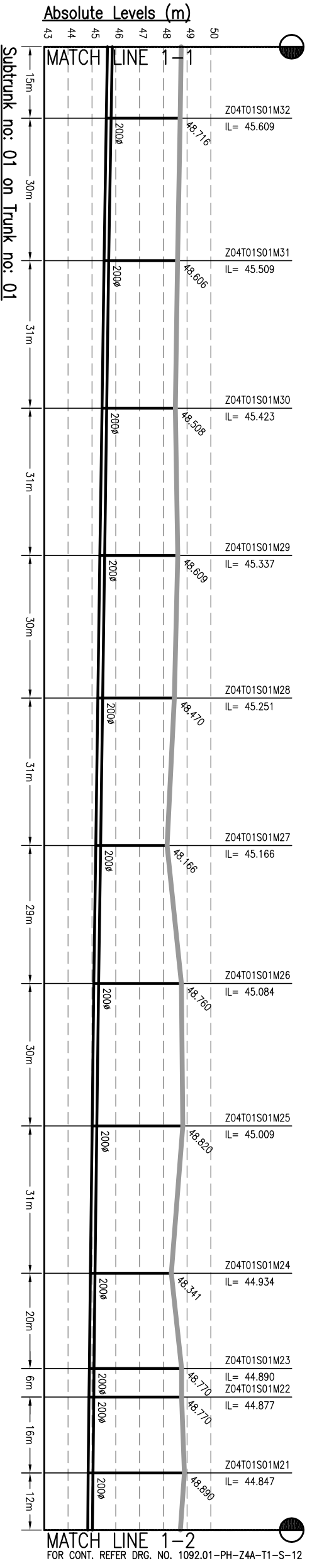


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CONSULTANT:-
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DRAWING TITLE
SEWERAGE L-SECTION OF SUBTRUNK ZONE-4A, TRUNK-1 (SPS-B)
(PART - 10 OF 12)

DISCIPLINE	NO.	DATE	REVISION
PH	Z4A-T1-S-10	MAY 2013	00



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Drawing Base Reference:-
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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PROJECT:-
PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS;
TENDERING FOR EXECUTION;
CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

CONSULTANT:-
MEINHARDT
MEINHARDT (SINGAPORE) PTE. LTD.

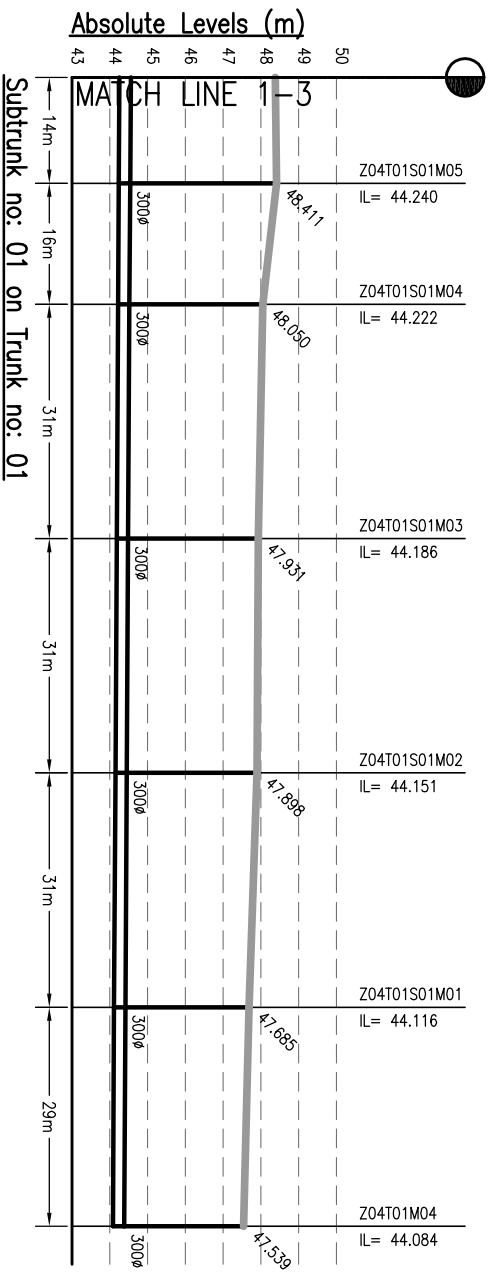
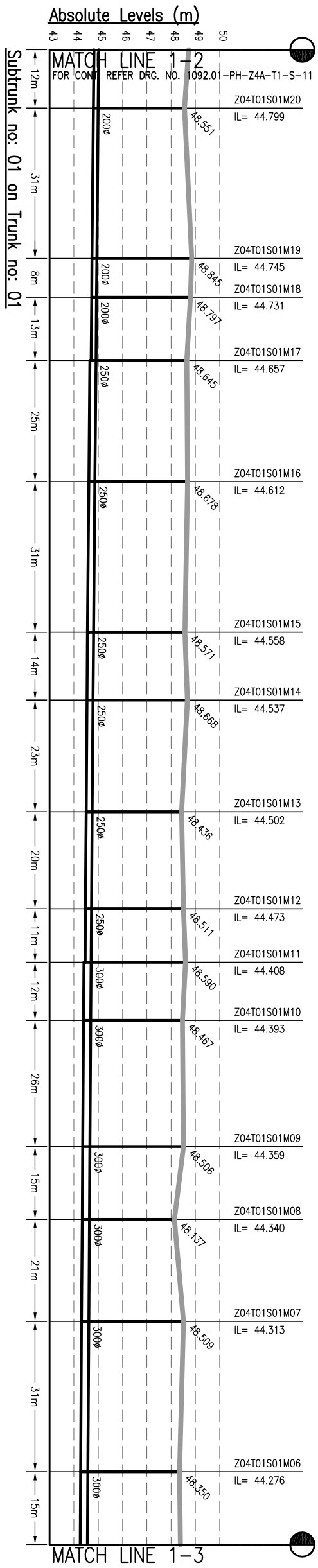
DRAWING TITLE
SEWERAGE
L-SECTION OF SUBTRUNK
ZONE-4A, TRUNK-1 (SPS-B)
(PART - 11 OF 12)

DESIGNED	BY	DATE OF FIRST ISSUE
SKS	JR	MAY 2013

CHECKED	BY	DATE OF FIRST ISSUE
RP	JR	MAY 2013

APPROVED	BY	DATE OF FIRST ISSUE
CR	JR	MAY 2013

JOB NO.	DISCIPLINE	DRAWING NO.	REVISION
1092.01	PH	Z4A-T1-S-11	00



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Drawing Base Reference:-
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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 DEVELOPMENT CORPORATION

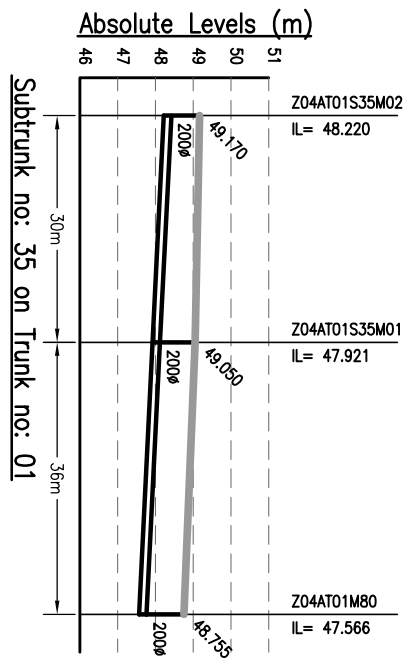
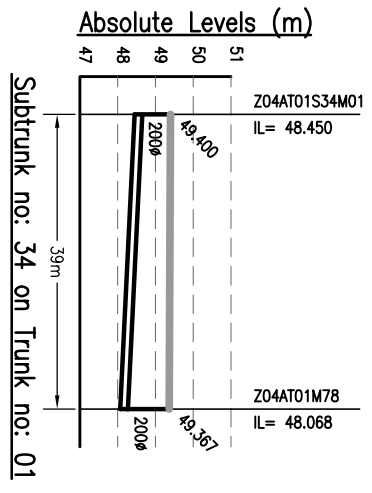
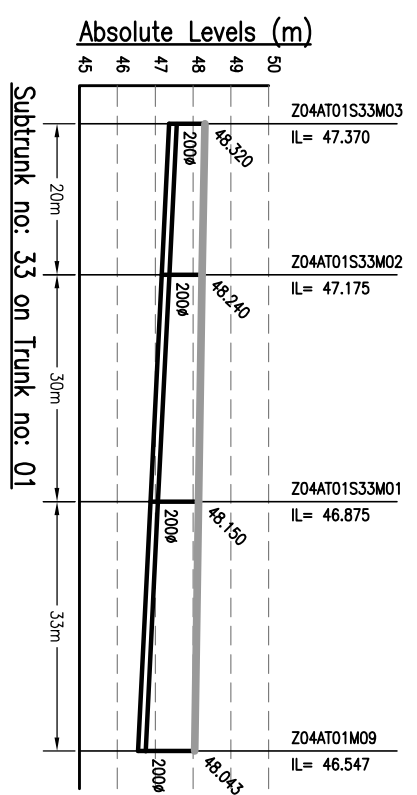
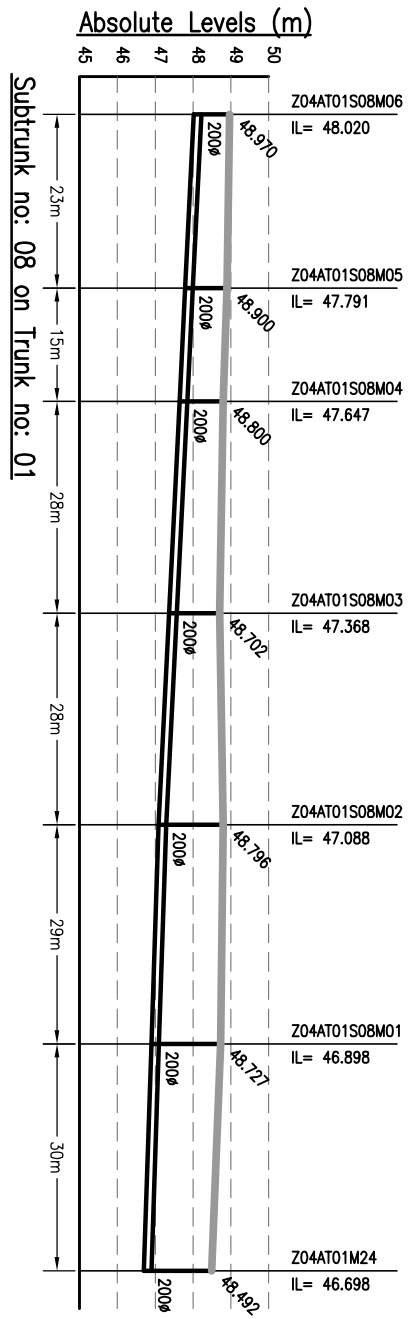
PROJECT:-
 PREPARATION OF DETAILED
 PROJECT REPORTS (DPRS) & BID
 DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION &
 QUALITY CONTROL OF SEWERAGE &
 DRAINAGE PROJECTS OF PATNA
 UNDER JNNURM

CONSULTANT:-

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DRAWING TITLE
 SEWERAGE
 L-SECTION OF SUBTRUNK
 ZONE-4A, TRUNK-1 (SPS-B)
 (PART - 12 OF 12)

DISCIPLINE	NO.	DATE	REVISION
PH	Z4A-T1-S-12	MAY 2013	00



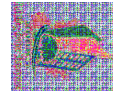
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Drawing Base Reference:
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV/	DATE	NAME	DESCRIPTION	CHKD
00	SEP'13	AH	ISSUED FOR DPR	RP

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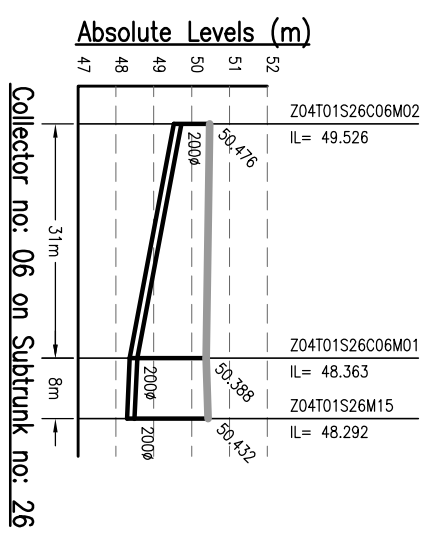
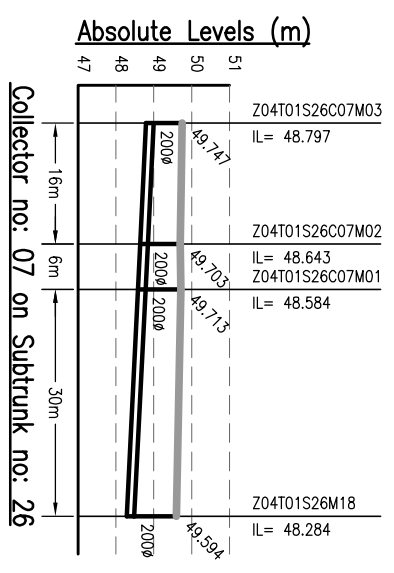
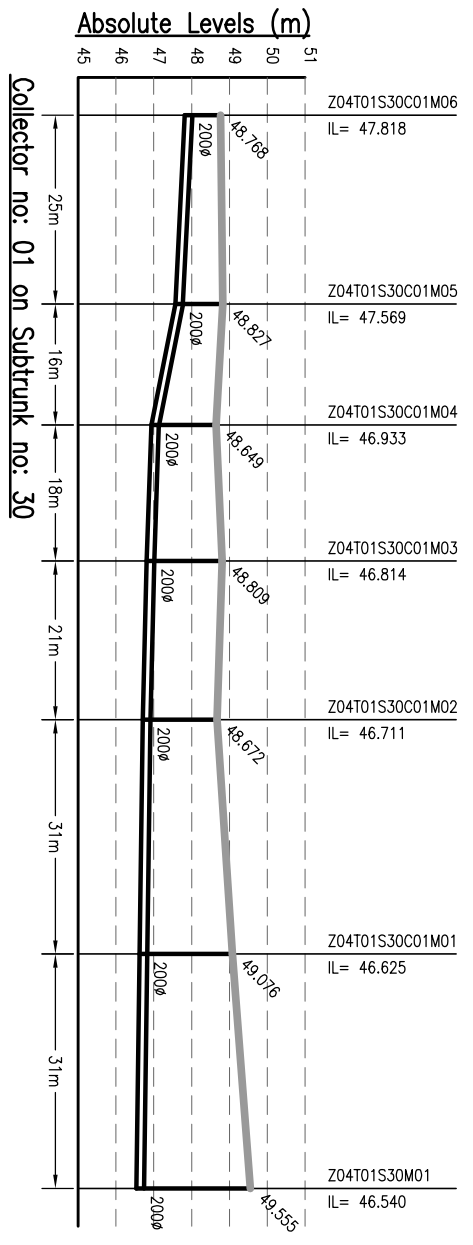
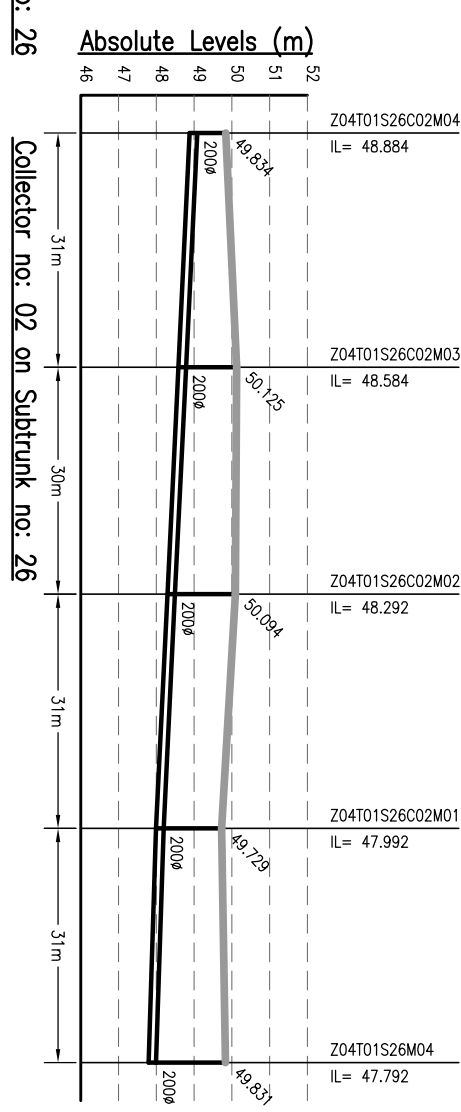
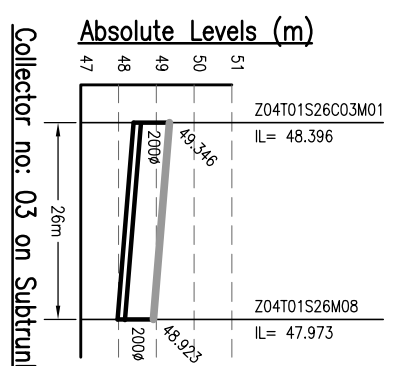
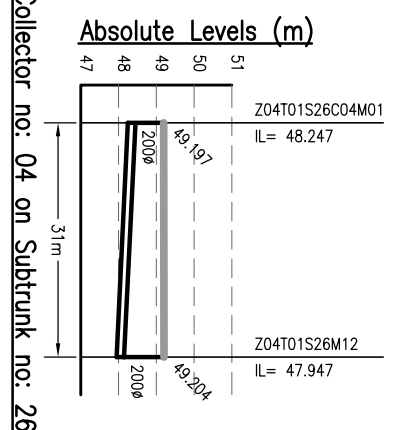
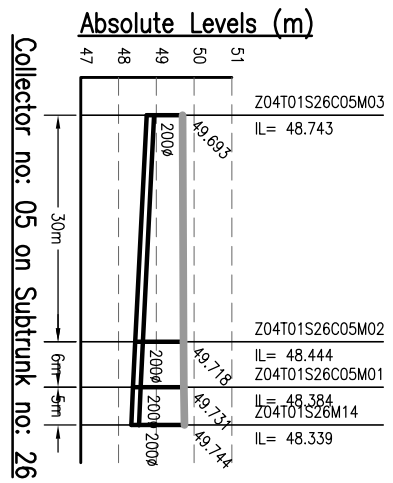
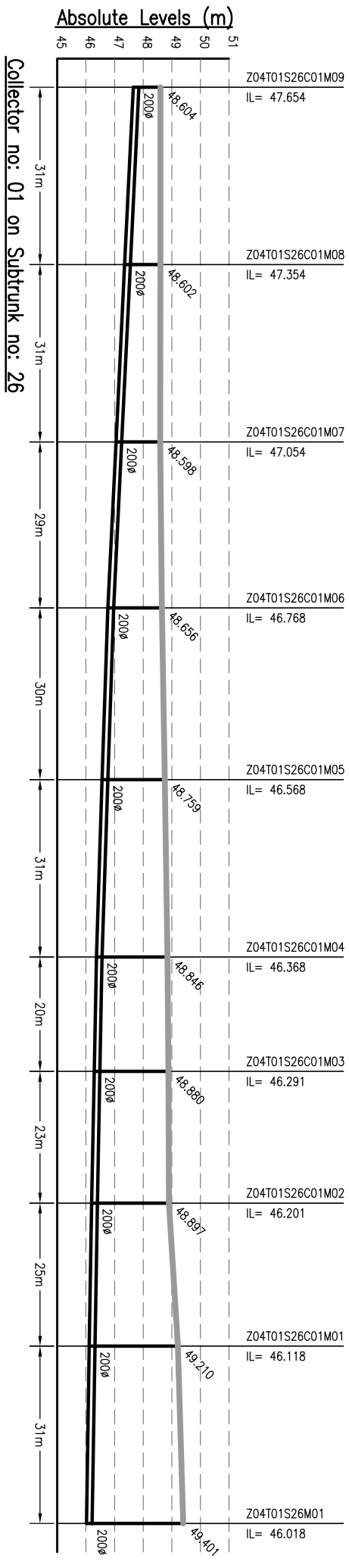
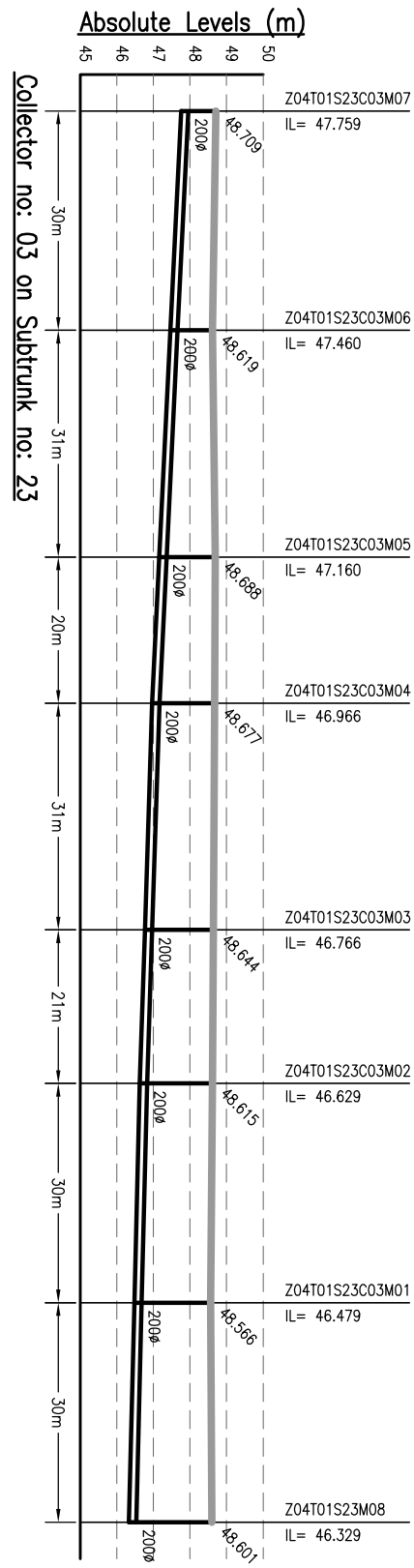
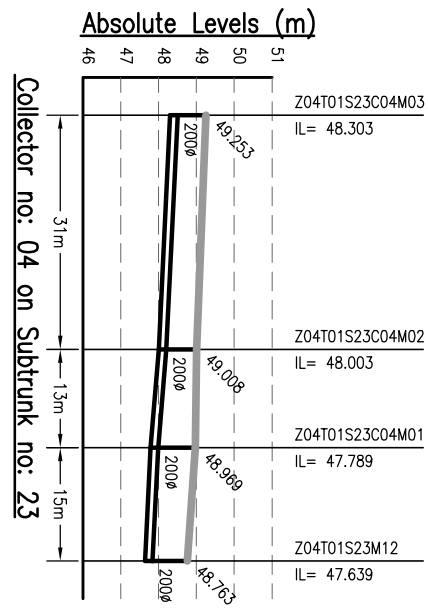
CLIENT:-
 BIHAR
 URBAN INFRASTRUCTURE
 DEVELOPMENT CORPORATION
 303, Malabar Tower,
 6th Floor,
 Plot No. 100/01,
 Phase - II, 22/10/01, Fax: (6612) 2210183
 Website: <http://www.ubdc.gov.sg>

PROJECT:-
 PREPARATION OF DETAILED
 PROJECT REPORTS (DPRs) & BID
 DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION &
 QUALITY CONTROL OF SEWERAGE
 PROJECTS OF PATNA UNDER NGRBA

CONSULTANT:-
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DRAWING TITLE
 SEWERAGE
L-SECTION OF SUB-TRUNK
ZONE-4A, TRUNK-1 (PAHARI STP)
 (PART - 13 OF 13)

PURPOSE OF ISSUE		SCALE :- H-1000, V-200	
DETAILED PROJECT REPORT (SEWERAGE)		SHEET SIZE :- A3	
BY	DATE OF FIRST ISSUE	BY	DATE OF FIRST ISSUE
AAH	SEPTEMBER 2013	AAH	SEPTEMBER 2013
JR	SEPTEMBER 2013	RP	SEPTEMBER 2013
CR	SEPTEMBER 2013	CR	SEPTEMBER 2013
DISCIPLINE	DRAWING NO.	REVISION	
1092.01	PH Z4A-T1-S-13	00	



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 4. REFER DRAWING NO. TO 491 & 1092/01-PH-S-01 TO 491 FOR LOCATION OF MANHOLE AND OTHER DETAILS.

Drawing Base Reference:-
 PWC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	AH	DRAFT DPR SUBMISSION	RP

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PROJECT:-
 PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

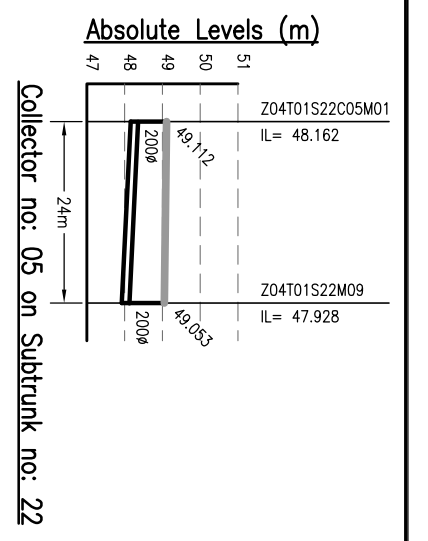
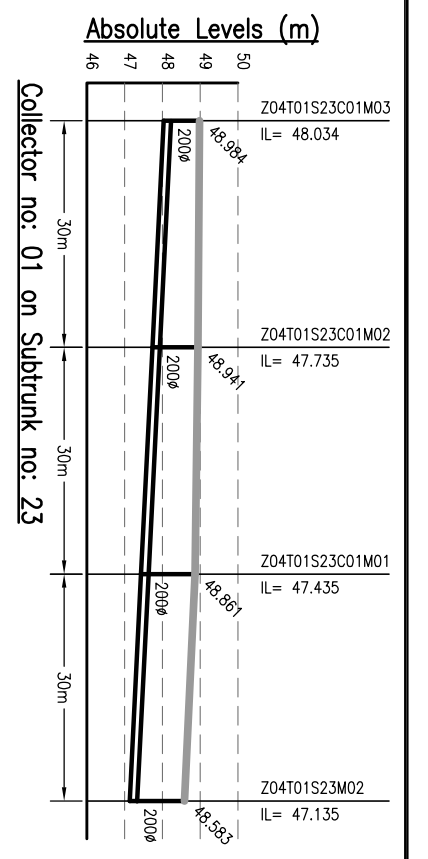
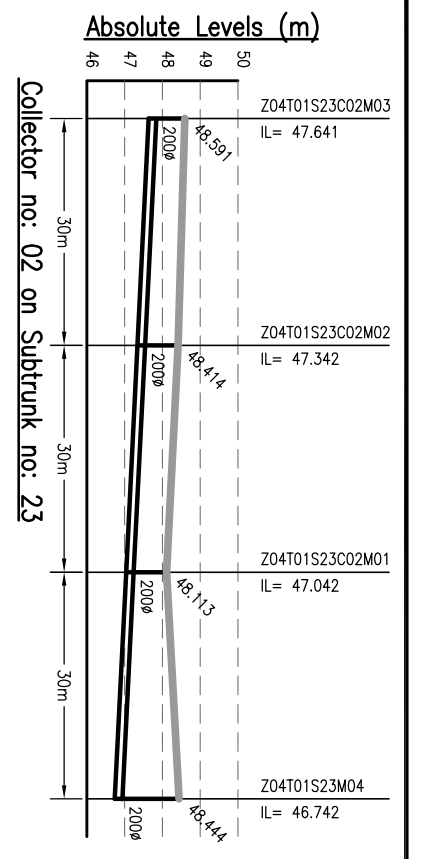
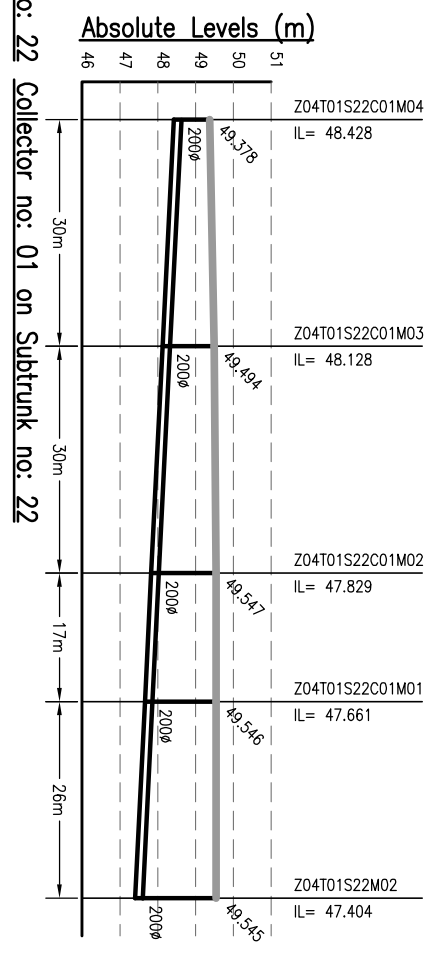
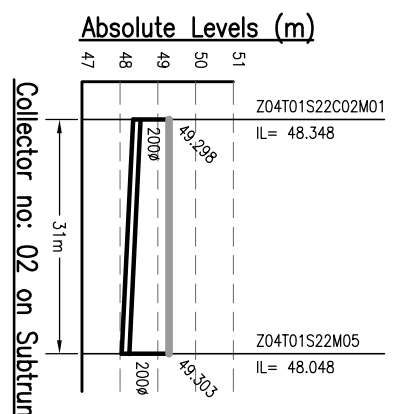
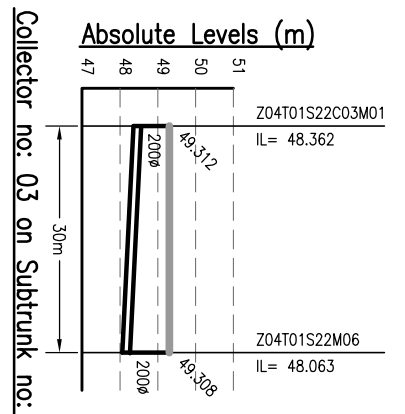
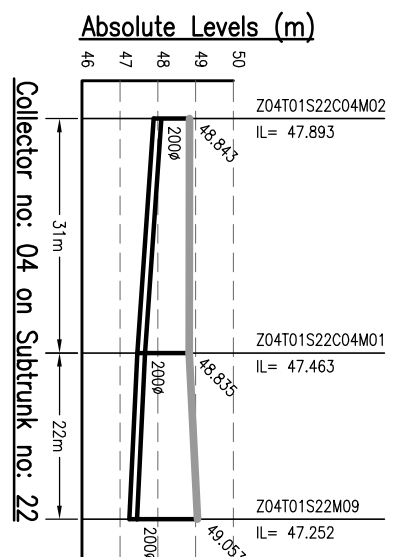
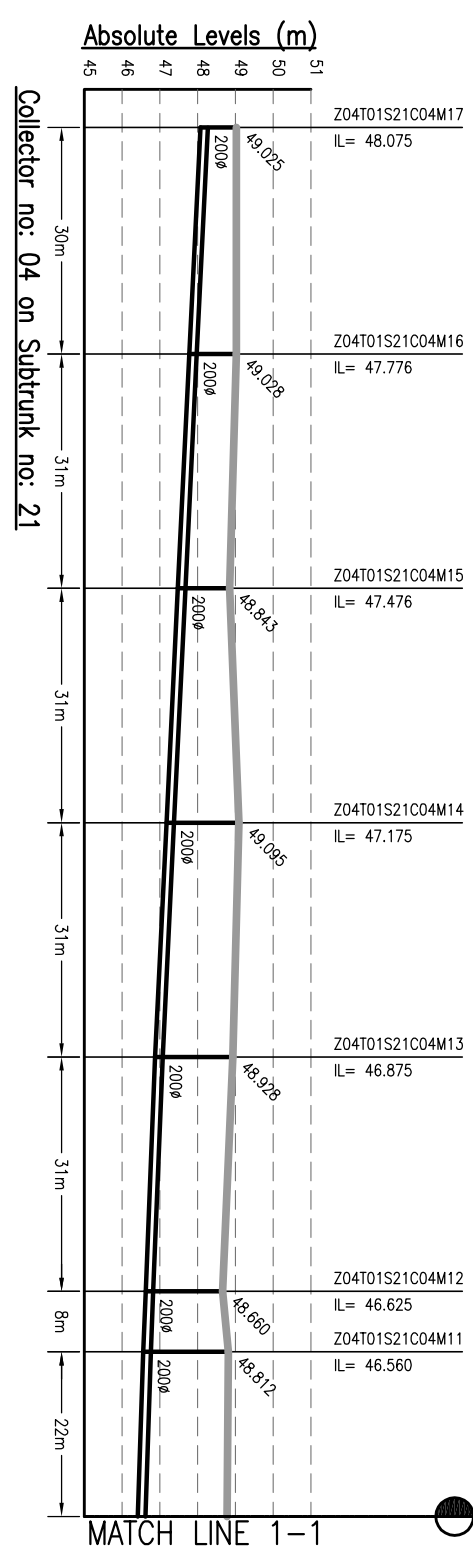
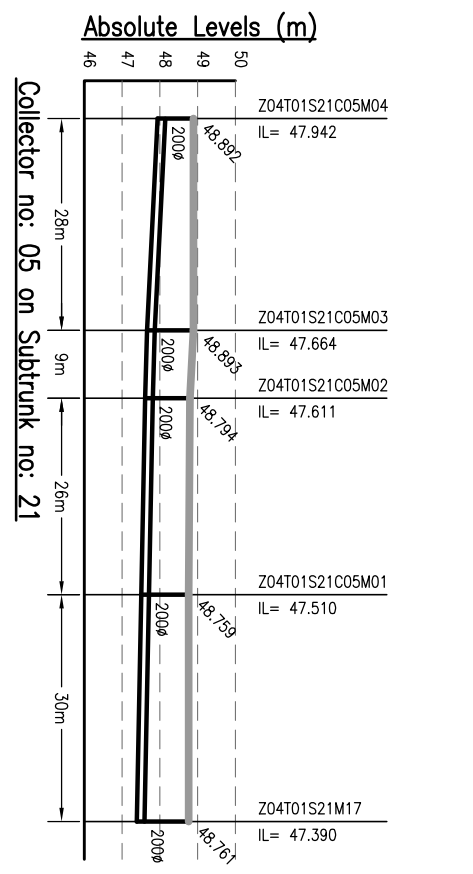
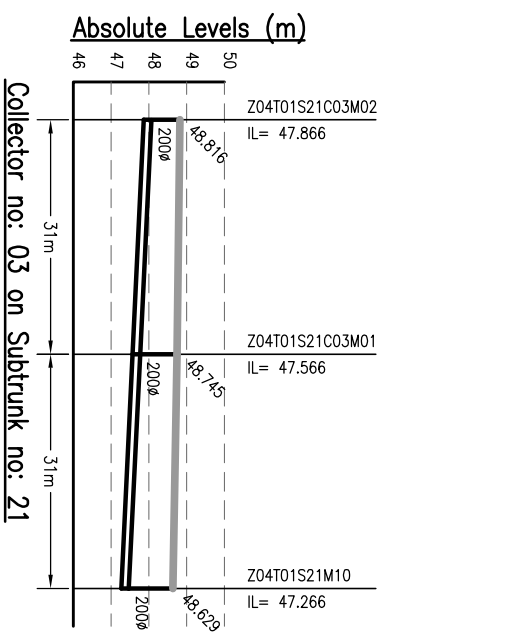
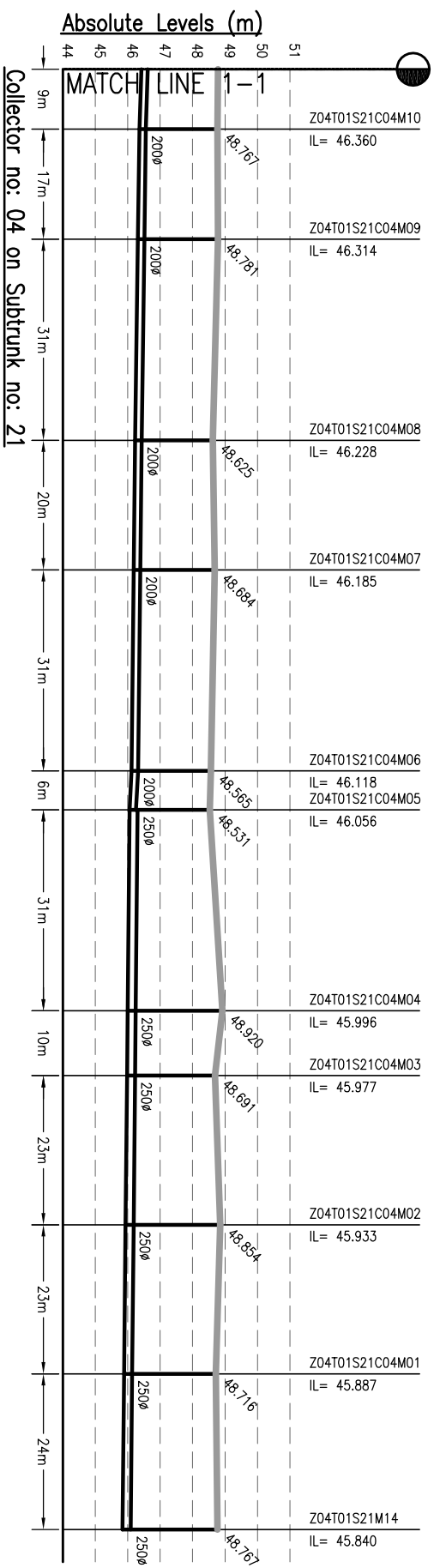
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DRAWING TITLE
 SEWERAGE
 L-SECTION OF COLLECTOR
 ZONE-4A, TRUNK-1 (SPS-B)
 (PART - 1 OF 19)

PURPOSE OF ISSUE
 DRAFT DETAILED PROJECT REPORT

SCALE	SHEET SIZE	DATE OF FIRST ISSUE
H=1000, V=200	A3	

DISCIPLINE	DRAWING NO.	REVISION
PH	Z4A-T1-C-01	00



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 4. REFER DRAWING NO. TO 491 & 1092.01-PH-S-01 TO 491 FOR LOCATION OF MANHOLE AND OTHER DETAILS.

Drawing Base Reference:
PNC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	AH	DRAFT DPR SUBMISSION	RP

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PROJECT:-
 PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

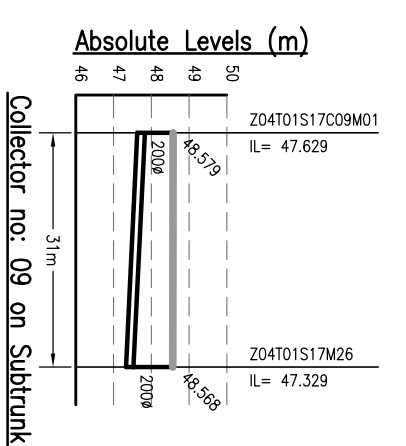
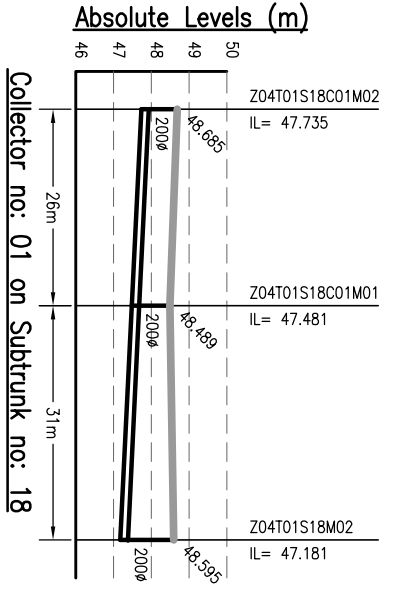
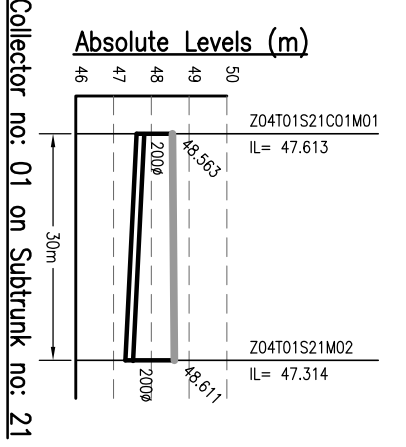
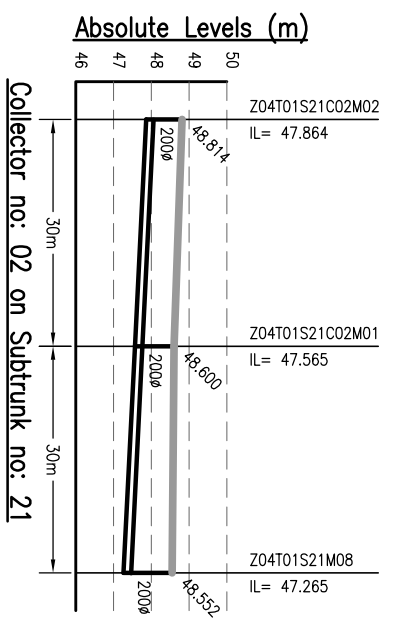
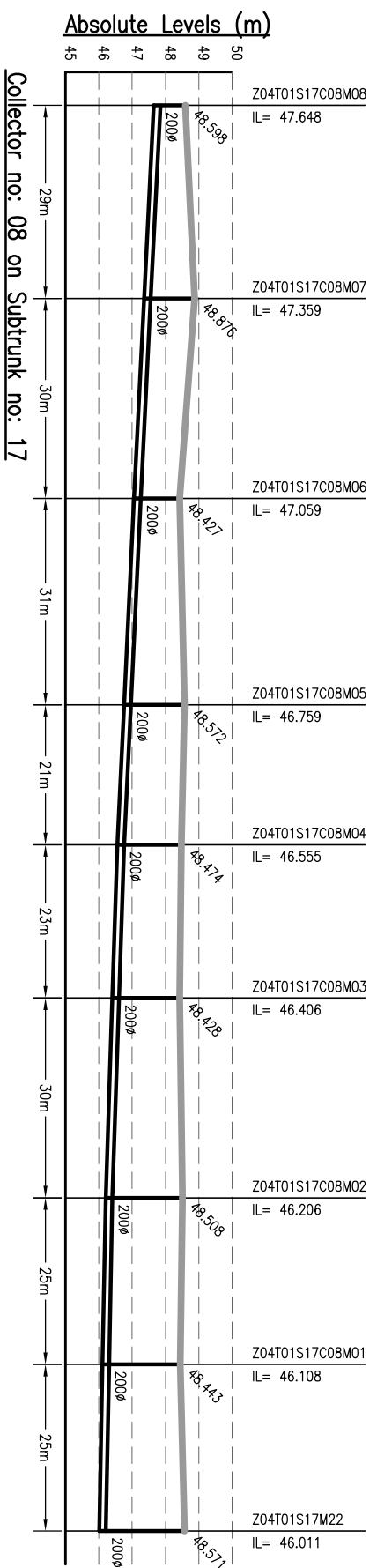
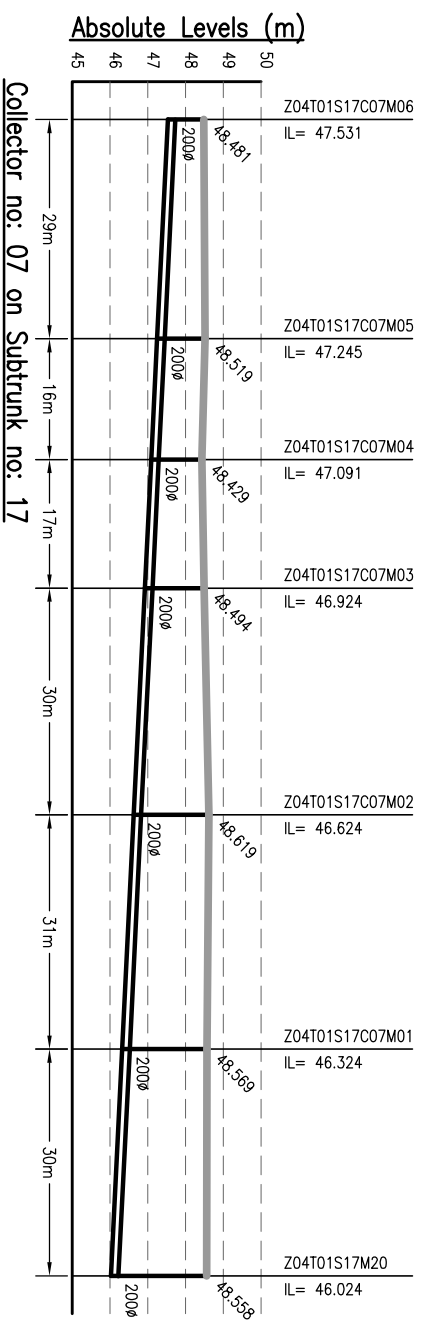
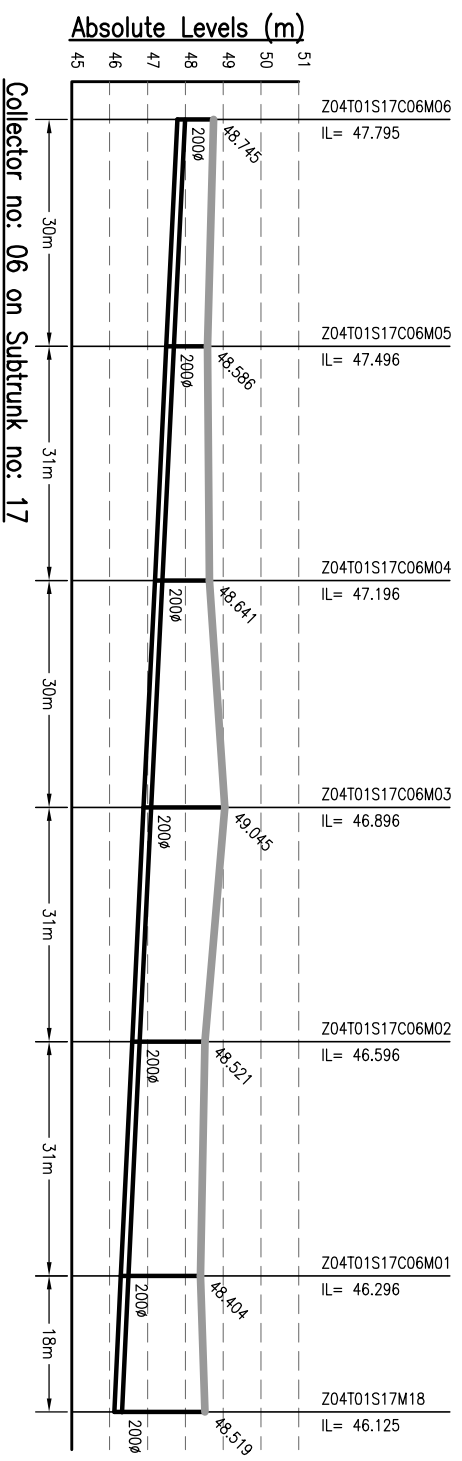
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DRAWING TITLE
 SEWERAGE
 L-SECTION OF COLLECTOR
 ZONE-4A, TRUNK-1 (SPS-B)
 (Part - 2 of 19)

DISCIPLINE	DATE OF FIRST ISSUE	SCALE
DRY	MAY 2013	H-1000, V-200

DATE	BY	APPROVED
MAY 2013	JR	RP
MAY 2013	RP	RP

JOB NO.	DISCIPLINE	DRAWING NO.	REVISION
1092.01	PH	Z4A-11-C-02	00



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Drawing Base Reference:
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	AH	DRAFT DPR SUBMISSION	RP

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 303 Malacca Tower
 100, 101/01
 P.O. Box - 106/27/2010/1, Fax - (081) 22 01 03
 Website - www.kafed.com

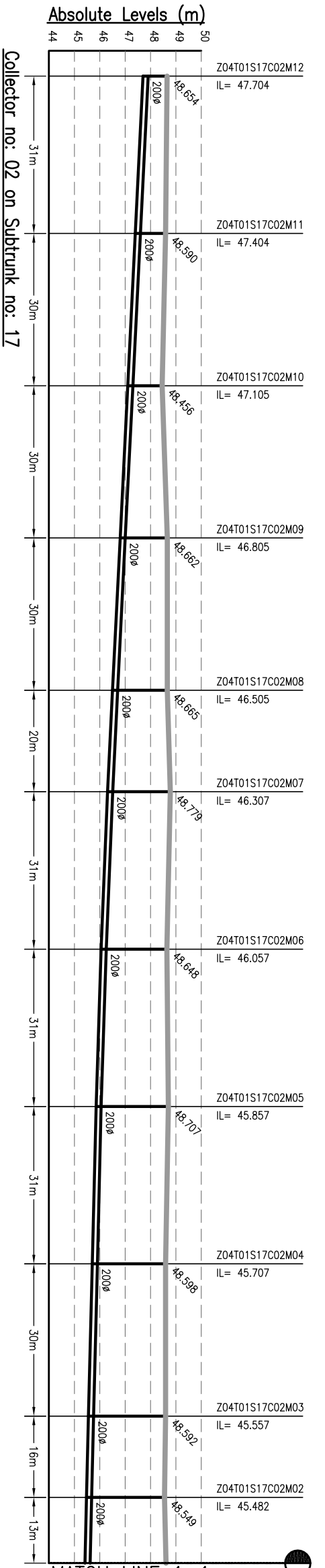
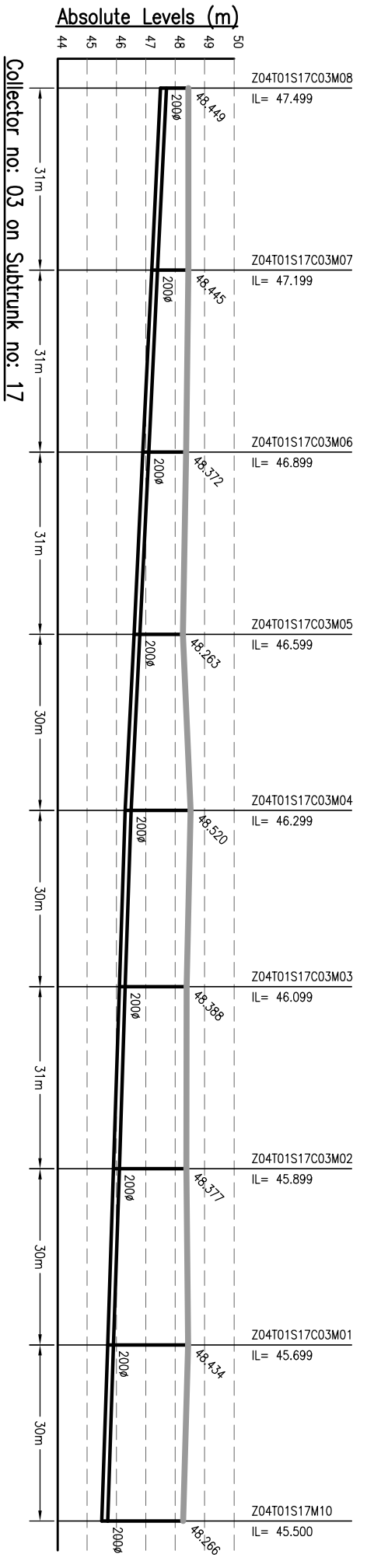
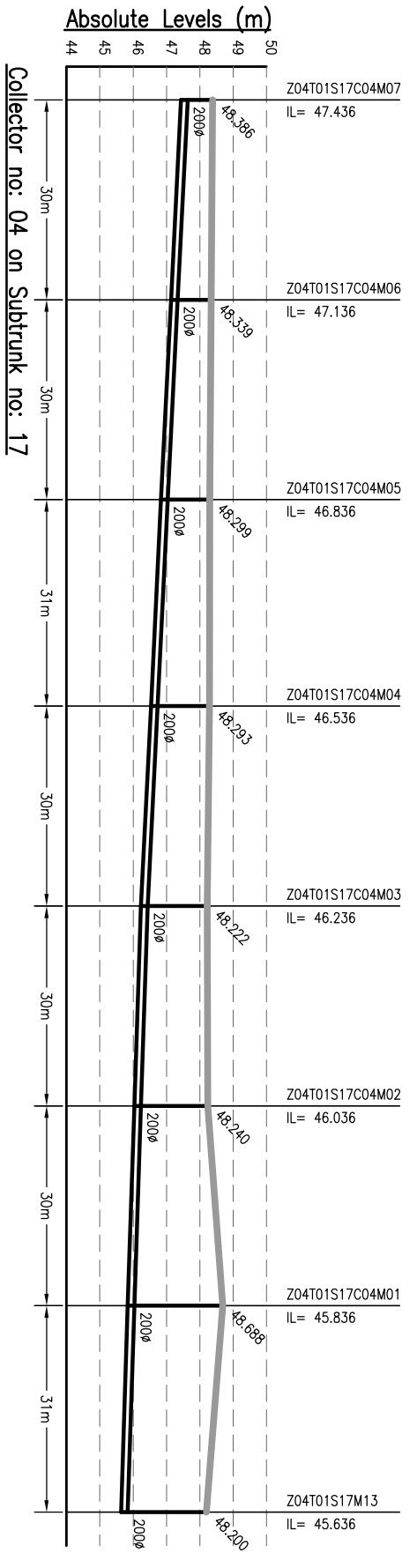
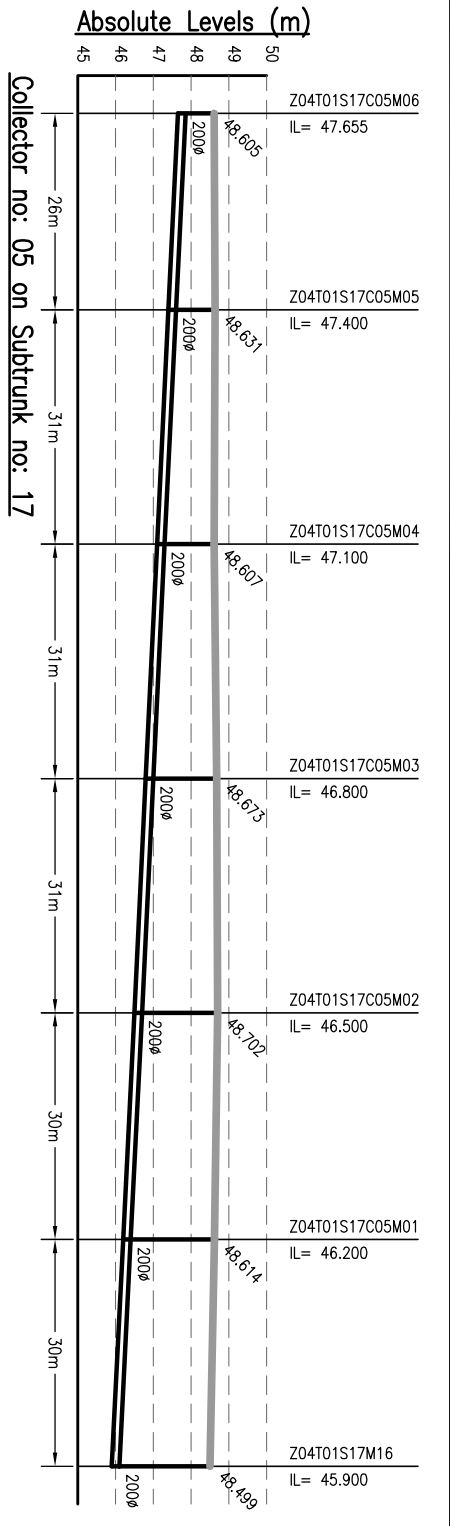
PROJECT:-
 PREPARATION OF DETAILED
 PROJECT REPORTS (DPRS) & BID
 DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION &
 QUALITY CONTROL OF SEWERAGE &
 DRAINAGE PROJECTS OF PATNA
 UNDER JNUURM

CONSULTANT:-
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DRAWING TITLE
 SEWERAGE
 L-SECTION OF COLLECTOR
 ZONE-4A, TRUNK-1 (SPS-B)
 (PART - 3 OF 19)

PURPOSE OF ISSUE
 DRAFT DETAILED PROJECT REPORT

DISCIPLINE	DATE OF FIRST ISSUE	SCALE
DRYING	MAY 2013	H-1000, V-200
DESIGNED	MAY 2013	SHEET SIZE: A3
CHECKED	MAY 2013	BY
APPROVED	MAY 2013	DATE OF FIRST ISSUE
JOB NO.	1092.01	DISCIPLINE
PHASE	PH1	DRAWING NO.
REVISION	Z4A-11-C-03	NO.



MATCH LINE 1-1
FOR CONT. REFER DRG. NO. 1092.01-PH-Z4A-T1-C-05

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Drawing Base Reference:-
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	AH	DRAFT DPR SUBMISSION	RP

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CLIENT:-



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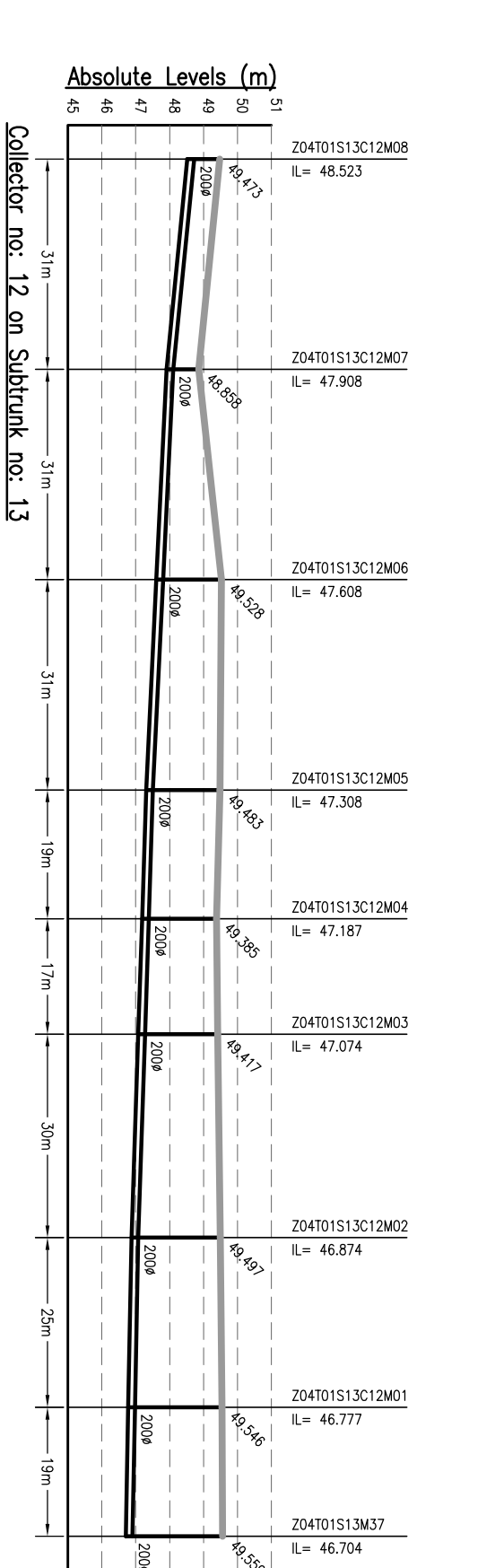
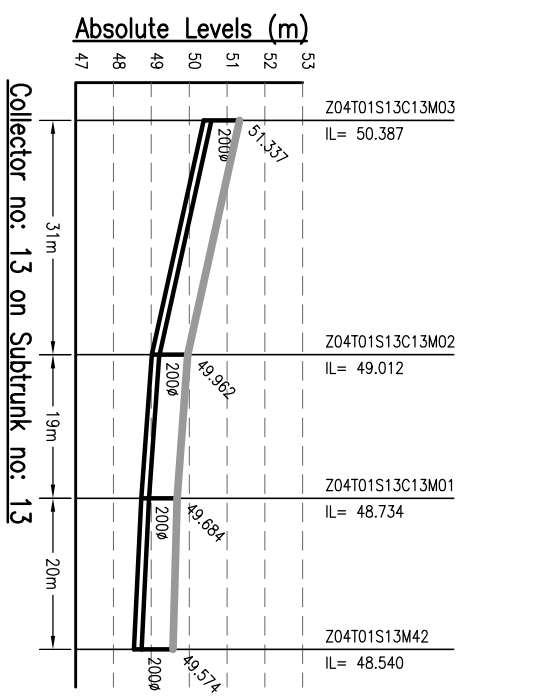
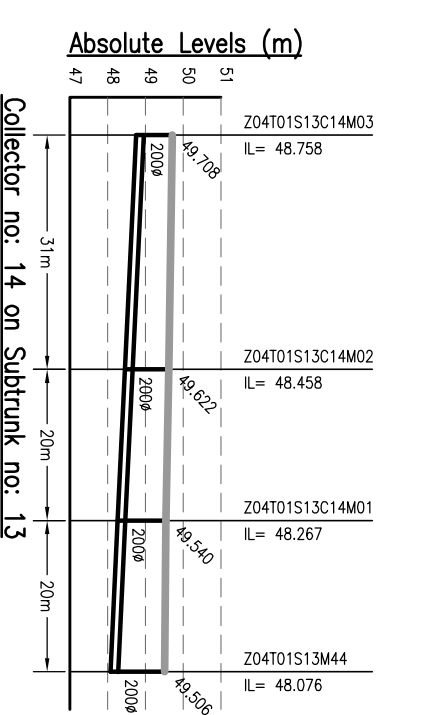
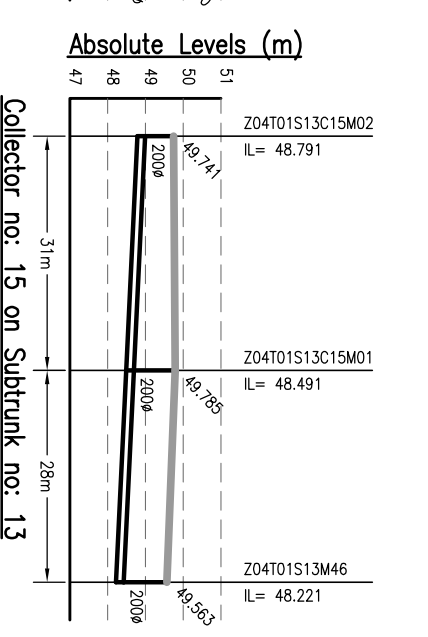
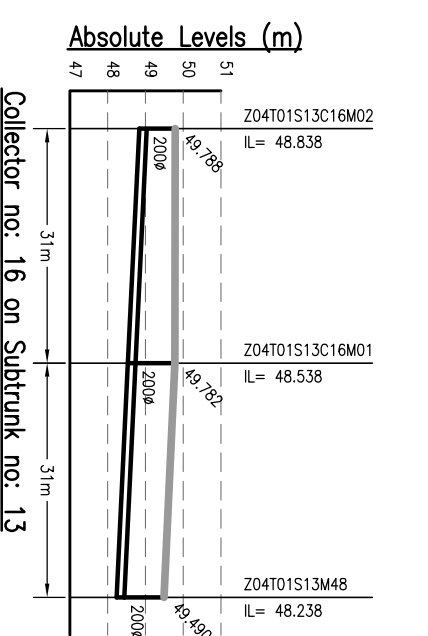
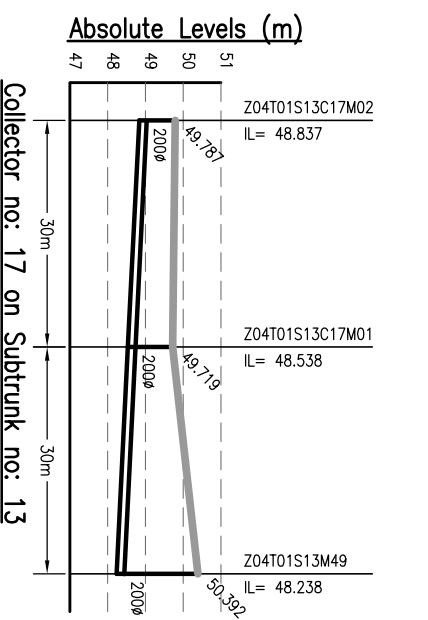
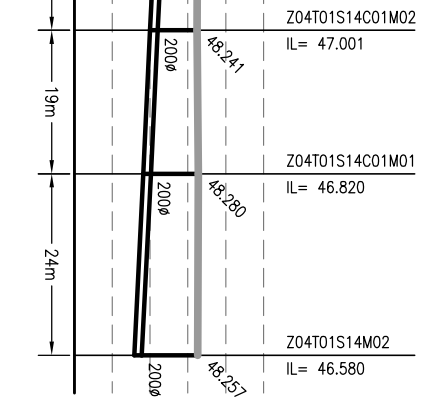
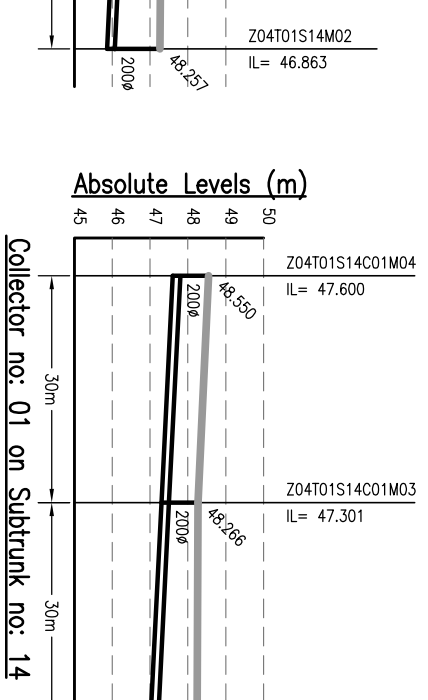
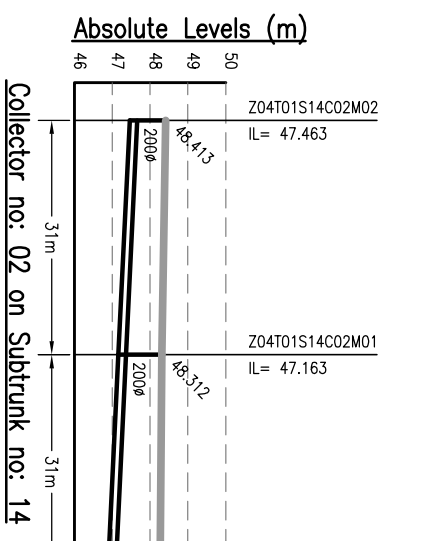
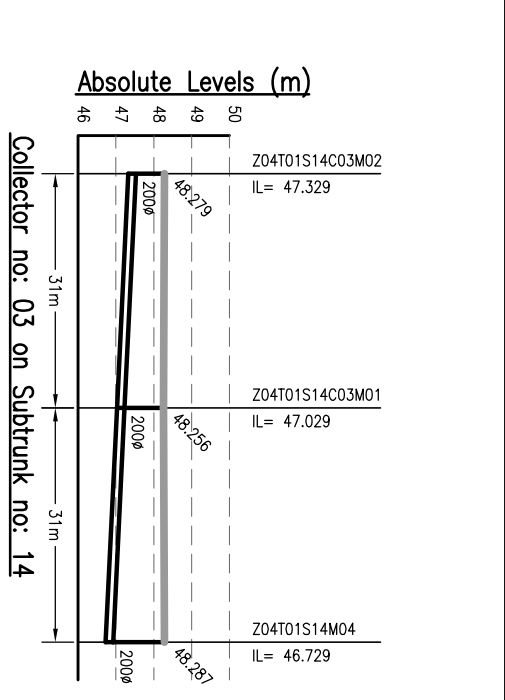
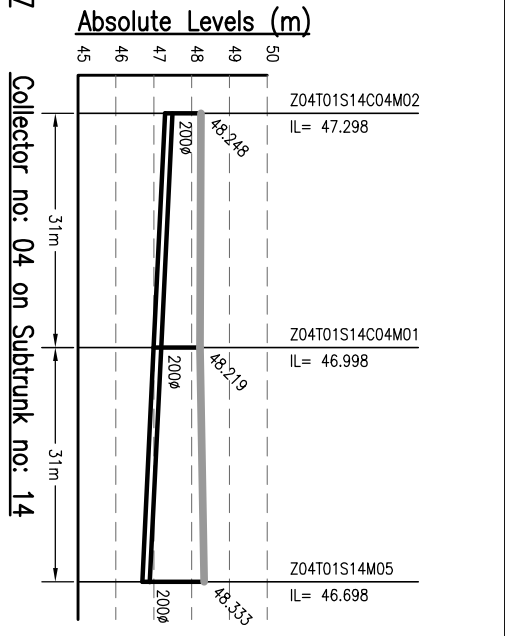
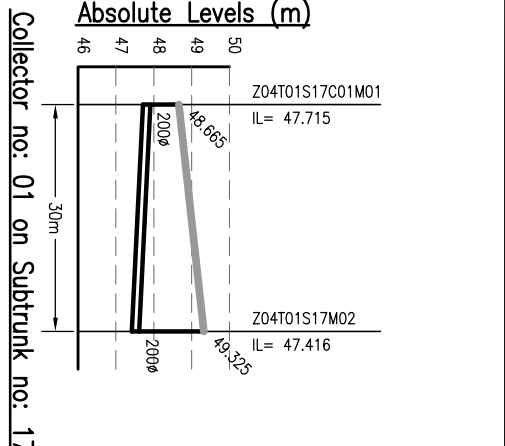
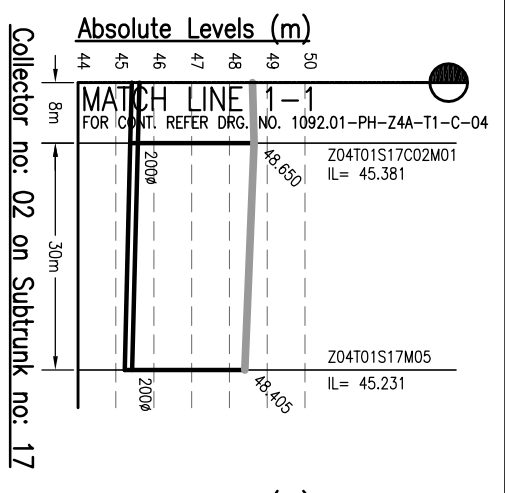
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PROJECT:-
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TENDERING FOR EXECUTION;
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DRAWING TITLE
SEWERAGE
L-SECTION OF COLLECTOR
ZONE-4A, TRUNK-1 (SPS-B)

DISCIPLINE	NO.	DATE	REVISION
PH	Z4A-T1-C-04	MAY 2013	00



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 4. REFER DRAWING NO. TO 491 & 1092.01-PH-S-01 TO 491 & FOR LOCATION OF MANHOLE AND OTHER DETAILS.

Drawing Base Reference:
PWC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	AH	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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BIHAR
 URBAN INFRASTRUCTURE
 DEVELOPMENT CORPORATION

PROJECT:-
 PREPARATION OF DETAILED
 PROJECT REPORTS (DPRS) & BID
 DOCUMENTS:
 TENDERING FOR EXECUTION,
 CONSTRUCTION SUPERVISION &
 QUALITY CONTROL OF SEWERAGE &
 DRAINAGE PROJECTS OF PATNA
 UNDER JNNURM

CONSULTANT:-
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 P.O.:- +91 120 2516165, Fax No.:- +91 120 2515745
 www.meinhardtdr.com, Email:- hco@meinhardtdr.com

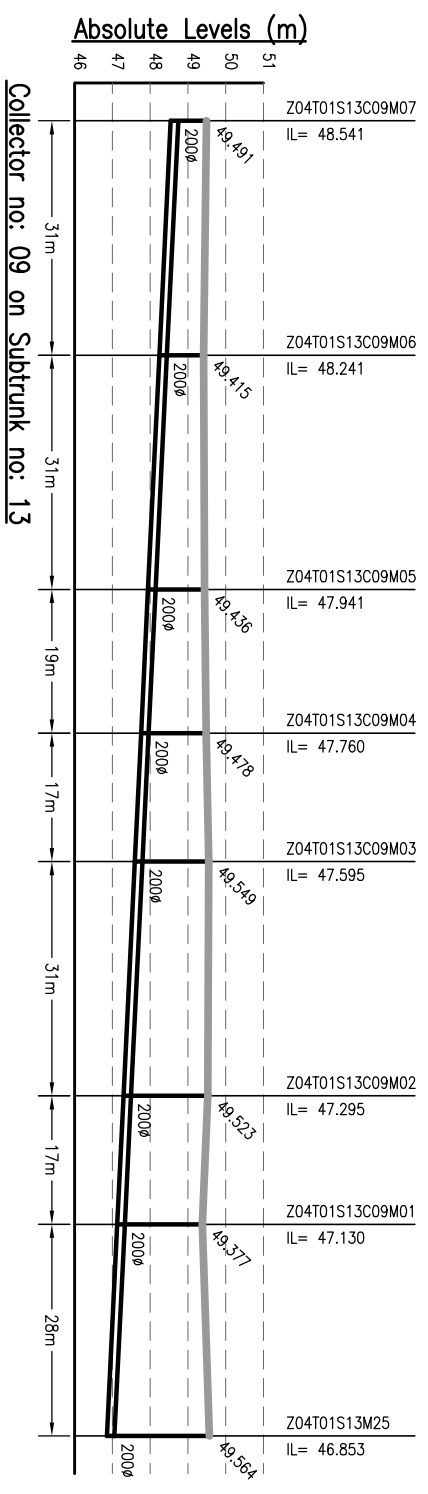
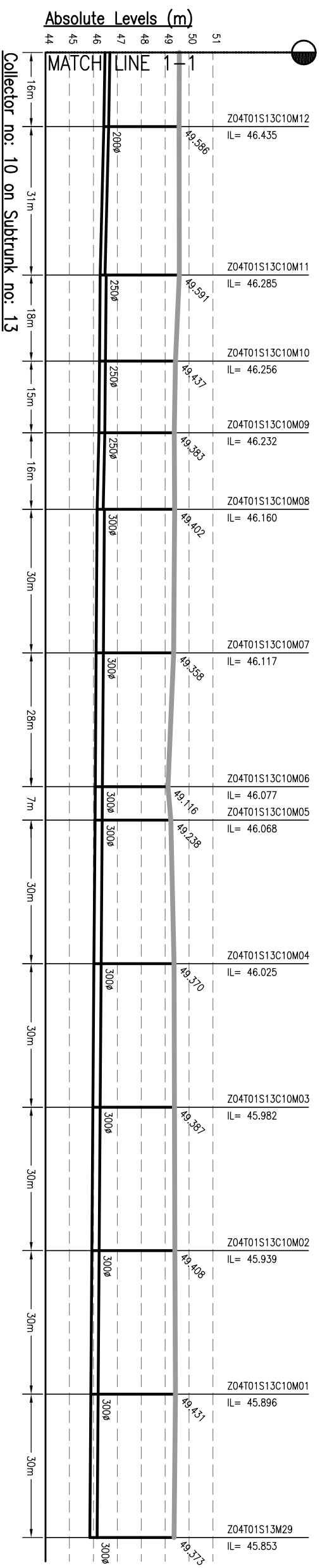
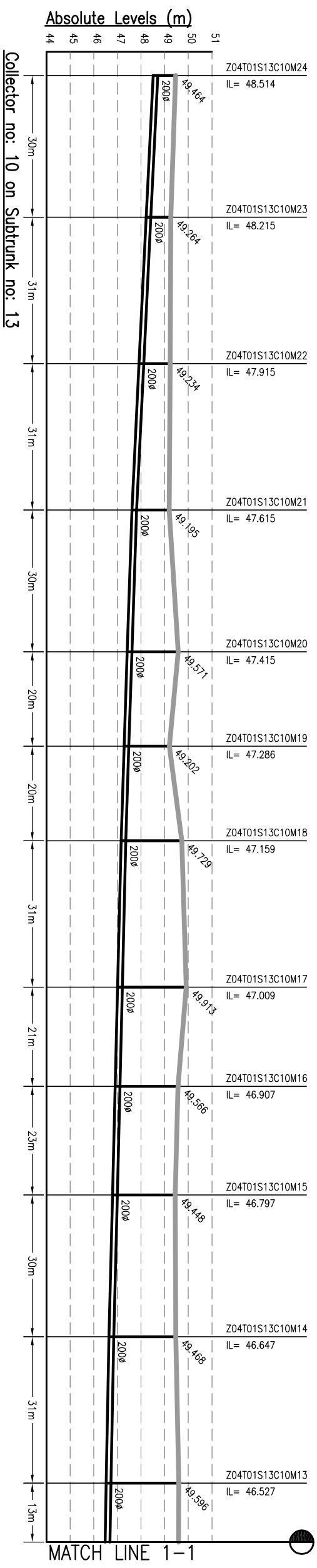
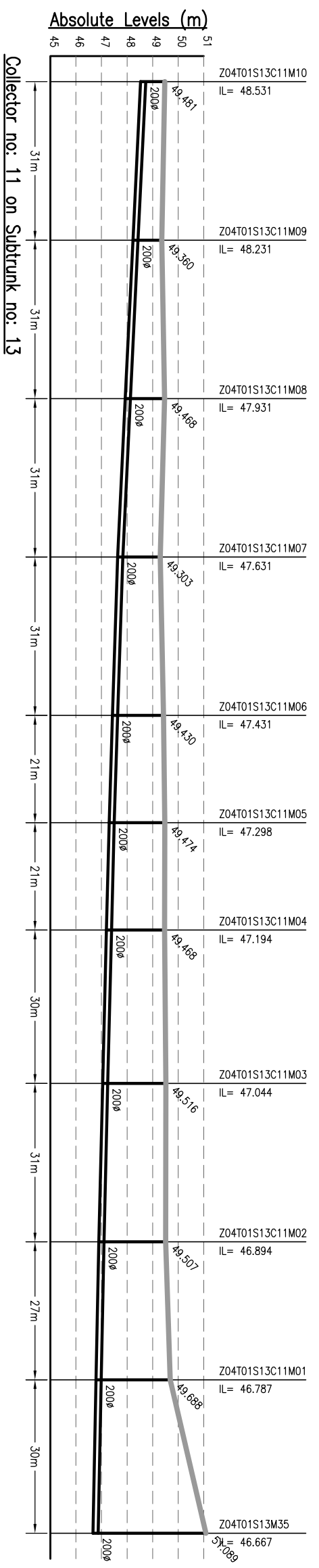
DRAWING TITLE
SEWERAGE
L-SECTION OF COLLECTOR
ZONE-4A, TRUNK-1 (SPS-B)
 (PART - 5 OF 19)

PURPOSE OF ISSUE
 DRAFT DETAILED PROJECT REPORT

SCALE :- H-1000, V-200
 SHEET SIZE :- A3

DISCIPLINE	DATE OF FIRST ISSUE	BY	DATE OF ISSUE
DESIGNED	MAY 2013	AH	MAY 2013
CHECKED	MAY 2013	JR	MAY 2013
APPROVED	MAY 2013	CR	MAY 2013

JOB NO. 1092.01 PH Z4A-T1-C-05
 DRAWING NO. 00



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 4. REFER DRAWING NO. TO 491 & 1092.01-PH-S-01 TO 491 & 1092.01-PH-S-01 TO 491 FOR LOCATION OF MANHOLE AND OTHER DETAILS.

Drawing Base Reference:-
PAC WORK ORDER 3499, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	AH	DRAFT DPR SUBMISSION	RP

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BIHAR
 URBAN INFRASTRUCTURE
 DEVELOPMENT CORPORATION

PROJECT:-
**PREPARATION OF DETAILED
 PROJECT REPORTS (DPRS) & BID
 DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION &
 QUALITY CONTROL OF SEWERAGE &
 DRAINAGE PROJECTS OF PATNA
 UNDER JNNURM**

CONSULTANT:-
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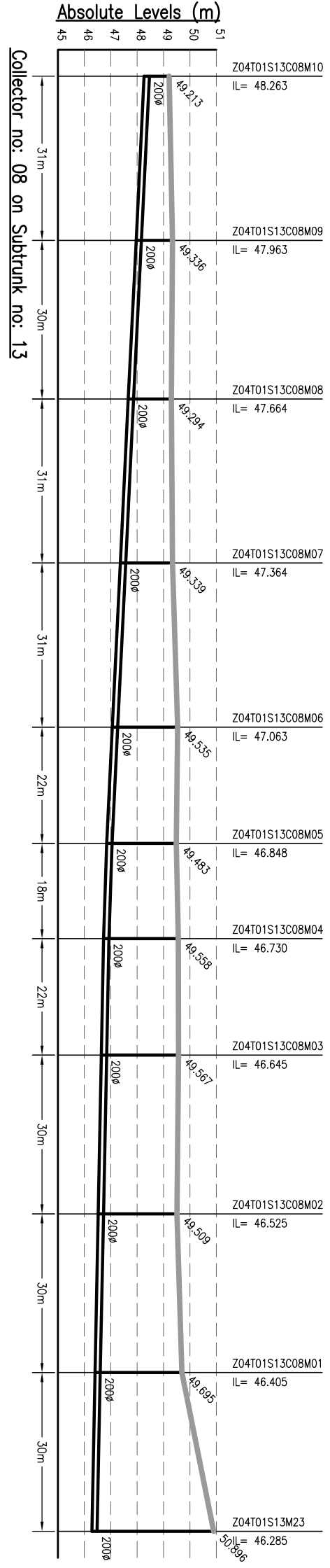
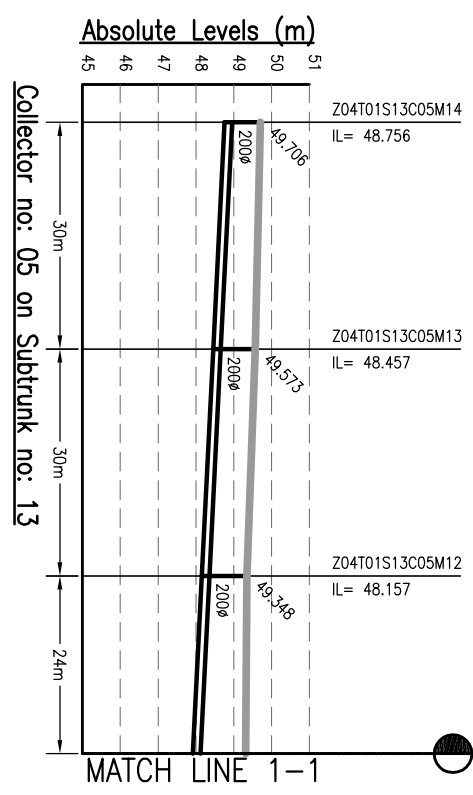
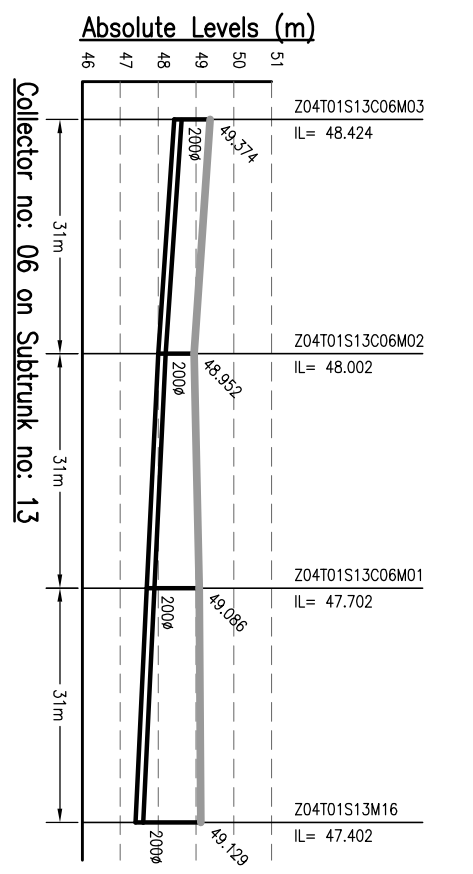
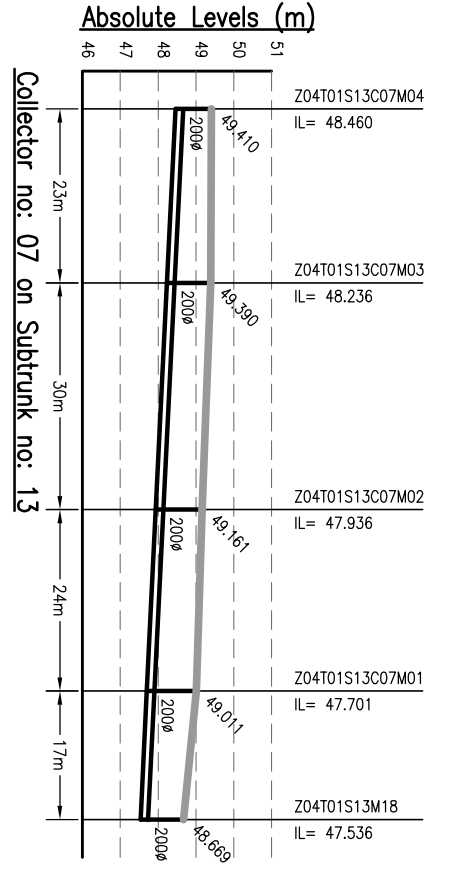
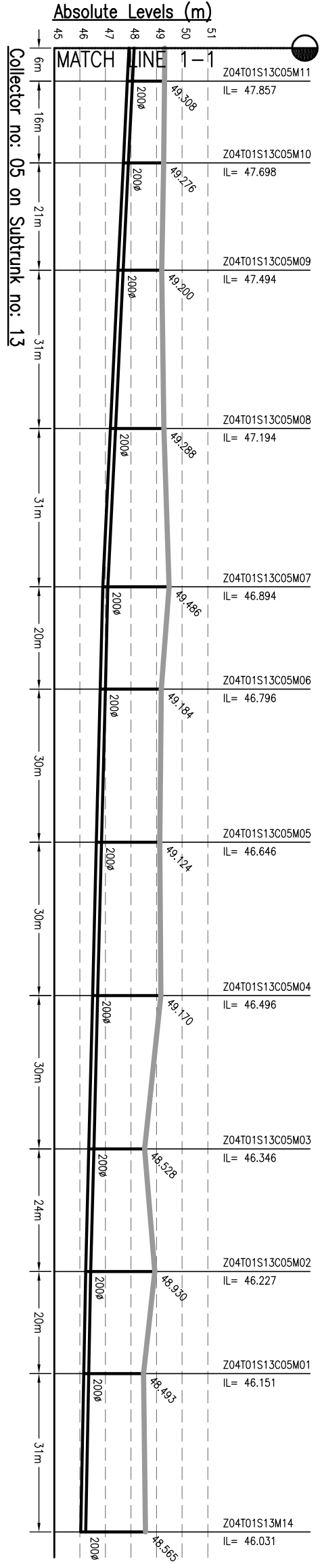
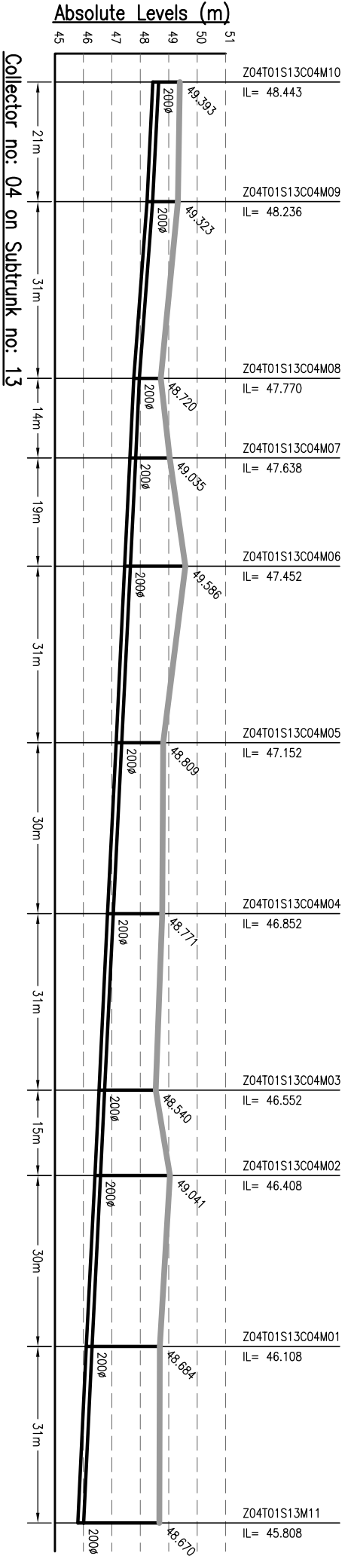
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**SEWERAGE
 L-SECTION OF COLLECTOR
 ZONE-4A, TRUNK-1 (SPS-B)**
 (PART - 6 OF 19)

PURPOSE OF ISSUE
 DRAFT DETAILED PROJECT REPORT

SCALE :- H-1000, V-200

SHEET SIZE :- A3

DISCIPLINE	DATE OF FIRST ISSUE	DATE OF THIS ISSUE	
DESIGNED	BY: AH	MAY 2013	
CHECKED	BY: JR	MAY 2013	
APPROVED	BY: RP	MAY 2013	
JOB NO.	DISCIPLINE	DRAWING NO.	REVISION
1092.01	PH	Z4A-11-C-06	00



DATE PLOTTED: 04/05/2013 10:50:00 AM. USER: MEINHARDT. PLOTTER: HP DesignJet 2500C.

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4. REFER DRAWING NO. TO 491 & 1092/01-PH-S-01 TO 491 FOR LOCATION OF MANHOLE AND OTHER DETAILS.

Drawing Base Reference:-
PWC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	AH	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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CLIENT:-

PROJECT:-

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PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS:

TENDERING FOR EXECUTION:

CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

CONSULTANT:-

MEINHARDT
MEINHARDT (SINGAPORE) PTE. LTD.
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DRAWING TITLE

SEWERAGE

L-SECTION OF COLLECTOR

ZONE-4A, TRUNK-1 (SPS-B)

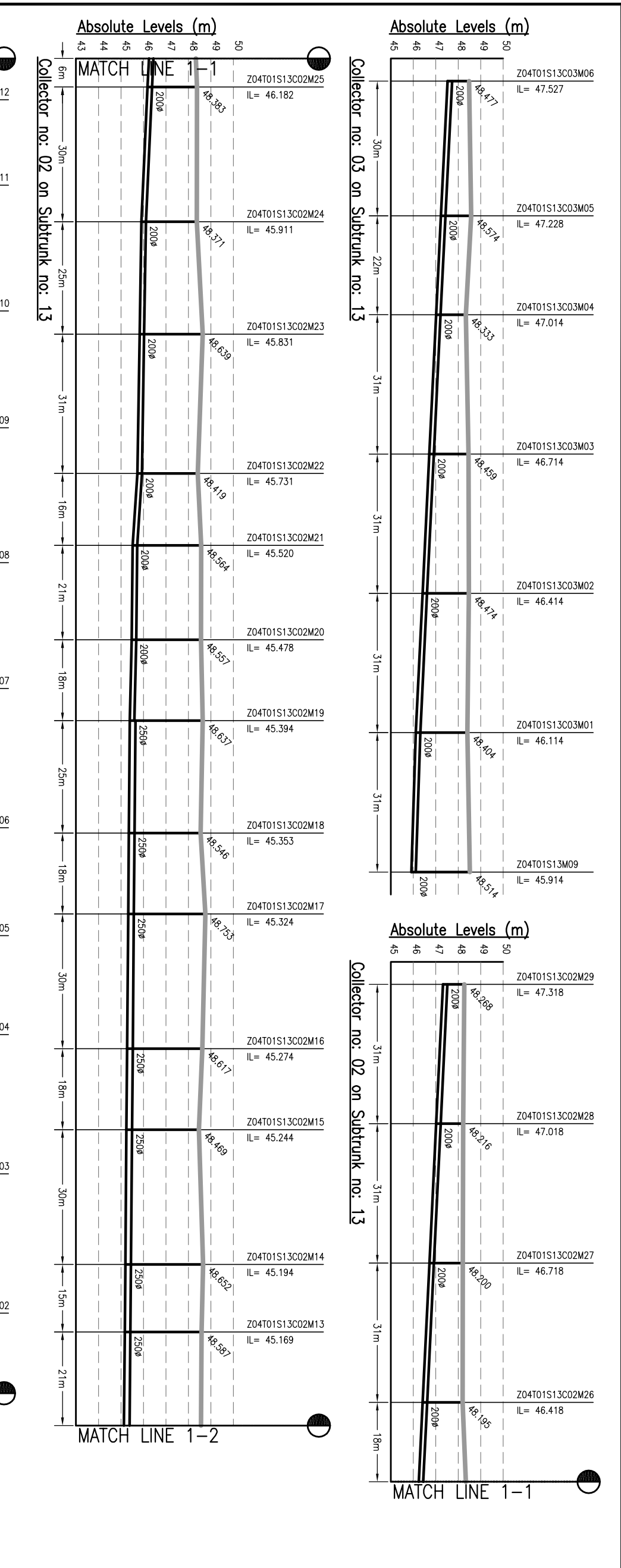
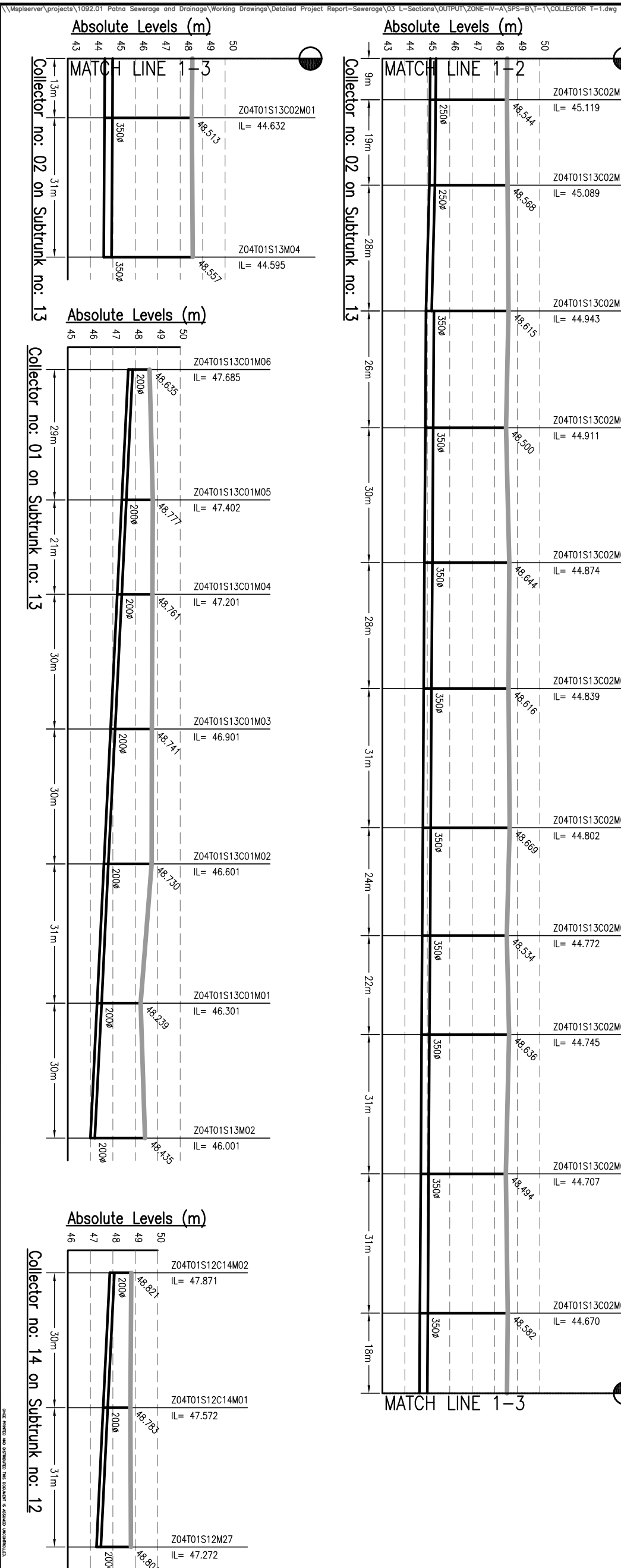
(PART - 7 OF 19)

SCALE: H-1:1000, V-200

DRAWN: AH
CHECKED: JR
DATE OF FIRST ISSUE: MAY 2013

APPROVED: RP
DATE: MAY 2013

JOB NO.: 1092.01
DISCIPLINE: PH
DRAWING NO.: Z4A-11-C-07
REVISION: 00



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Drawing Base Reference:
PWC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	AH	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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MEINHARDT (SINGAPORE) PTE. LTD.

BIHAR URBAN INFRASTRUCTURE DEVELOPMENT CORPORATION

PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS;

TENDERING FOR EXECUTION;

CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

CONSULTANT:-

MEINHARDT

SEWERAGE L-SECTION OF COLLECTOR ZONE-4A, TRUNK-1 (SPS-B)

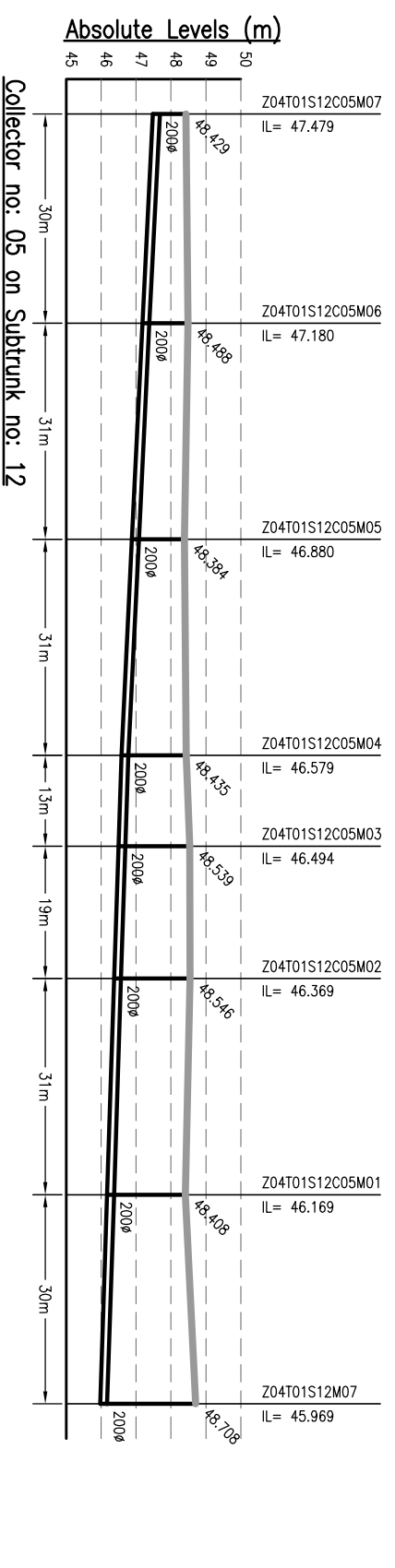
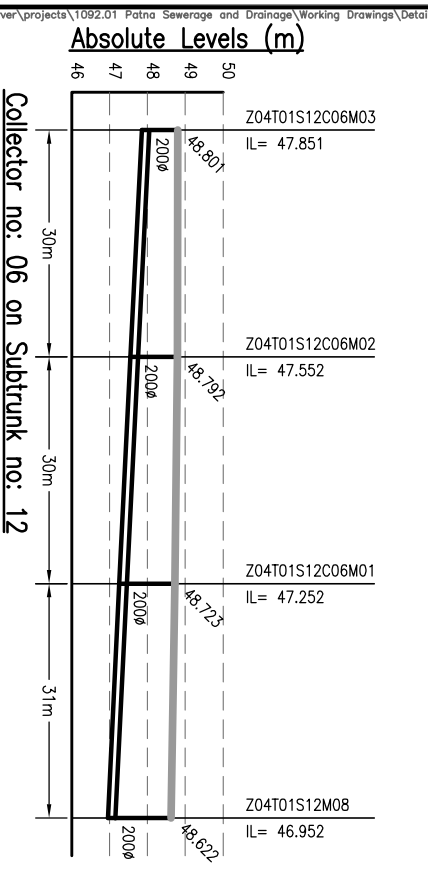
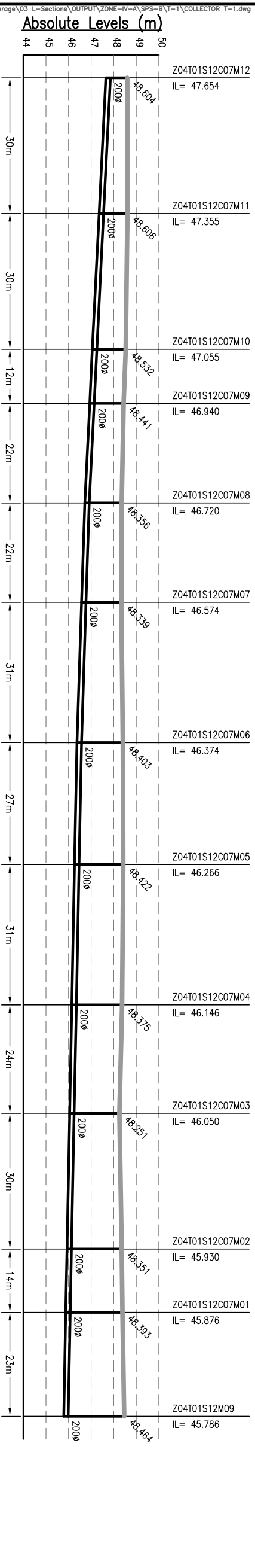
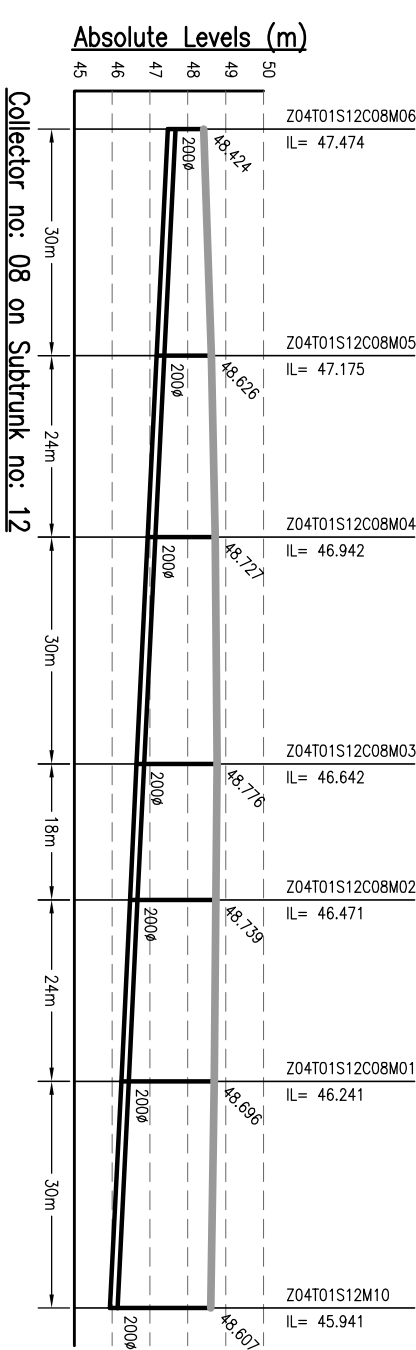
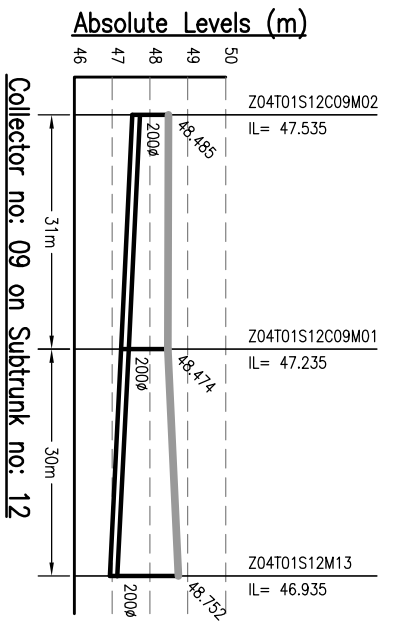
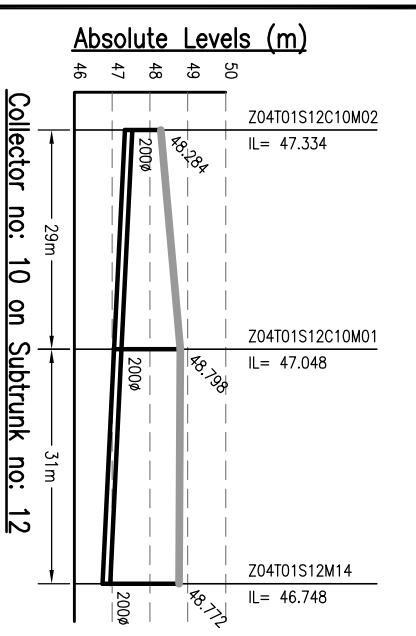
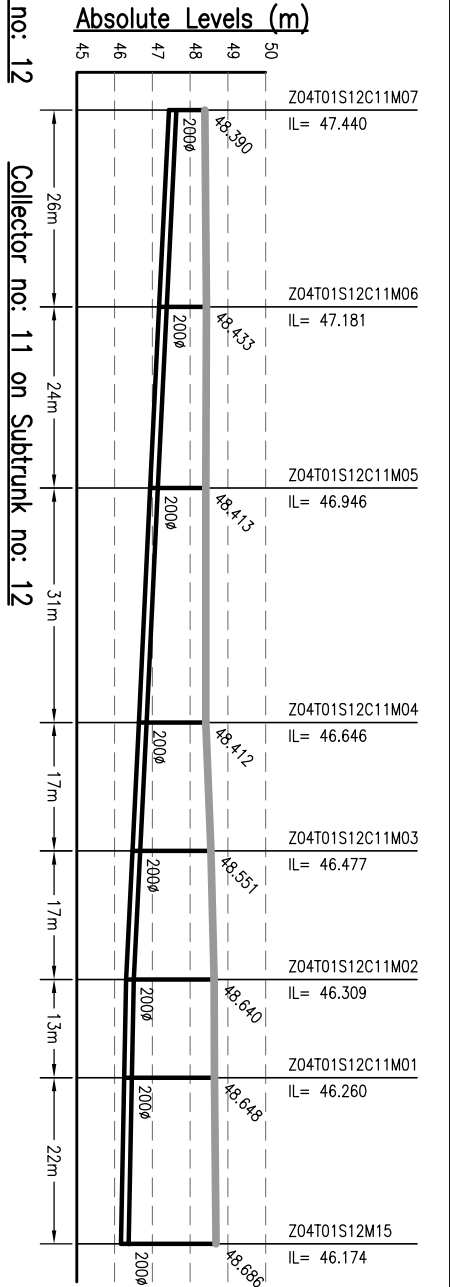
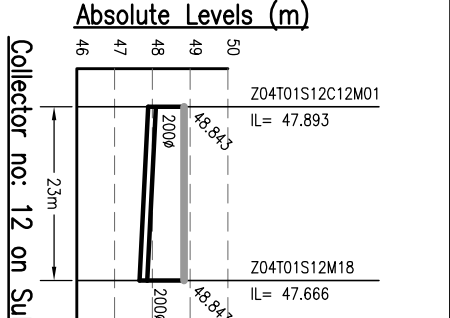
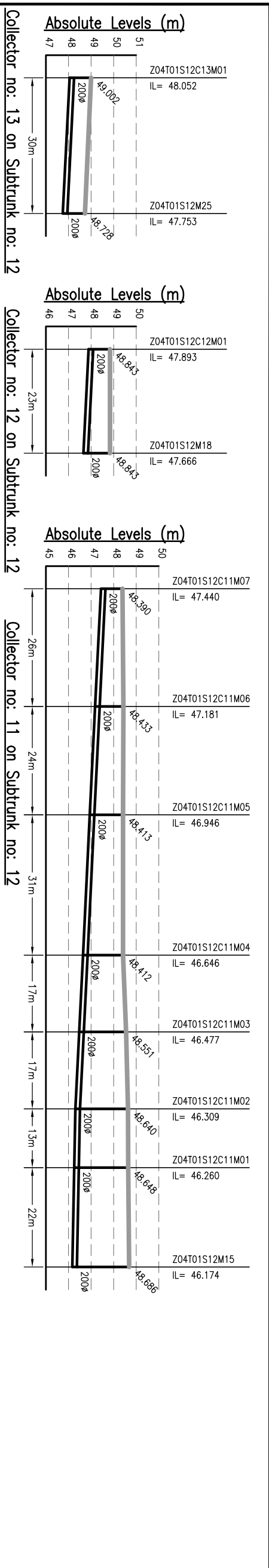
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DESIGNED	BY	DATE OF FIRST ISSUE
RP	AH	MAY 2013
CHECKED	BY	DATE OF FIRST ISSUE
RP	JR	MAY 2013
APPROVED	BY	DATE OF FIRST ISSUE
RP	JR	MAY 2013

REVISION

NO.	DESCRIPTION	DATE
01	PH	Z4A-11-C-08
00		

1092.01



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Drawing Base Reference:-
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	AH	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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PROJECT:-
PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS;
TENDERING FOR EXECUTION;
CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

CONSULTANT:-

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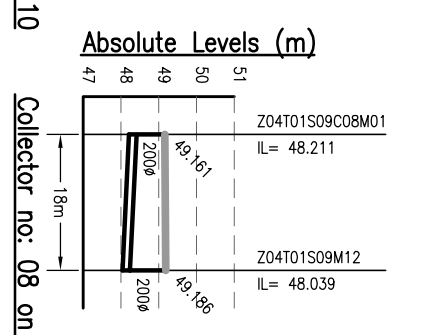
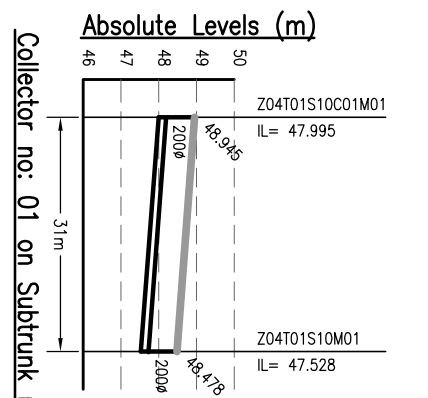
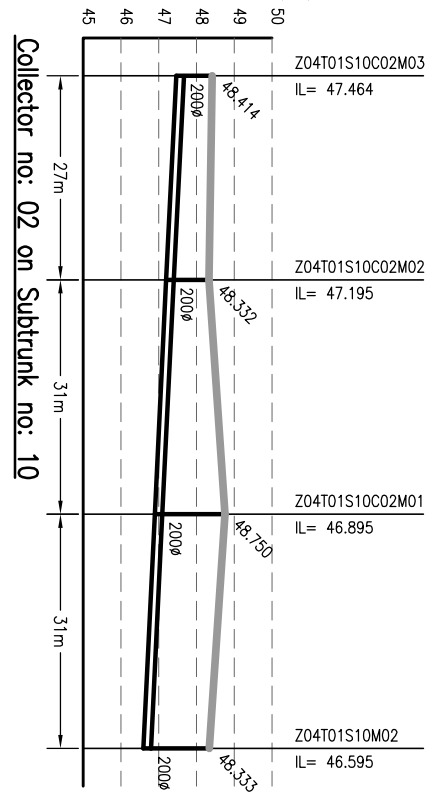
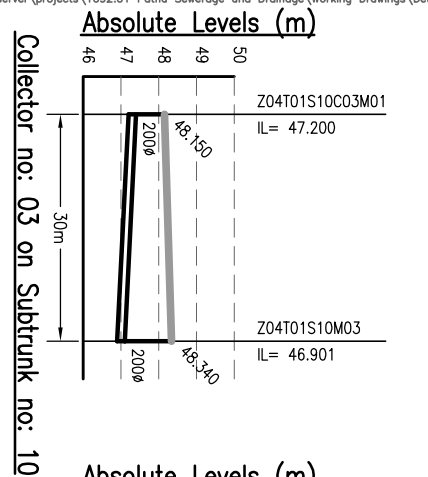
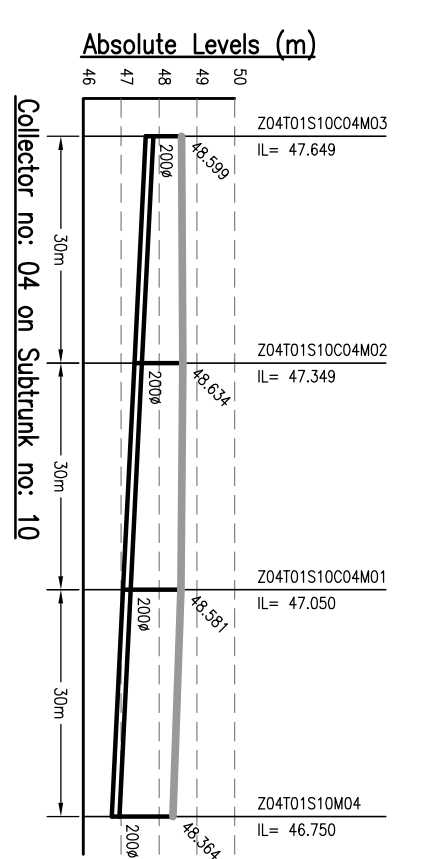
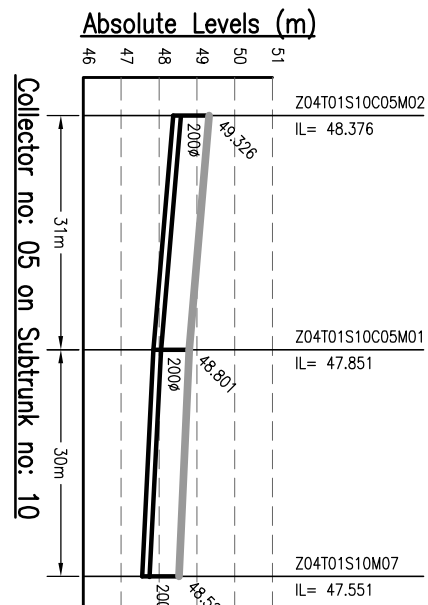
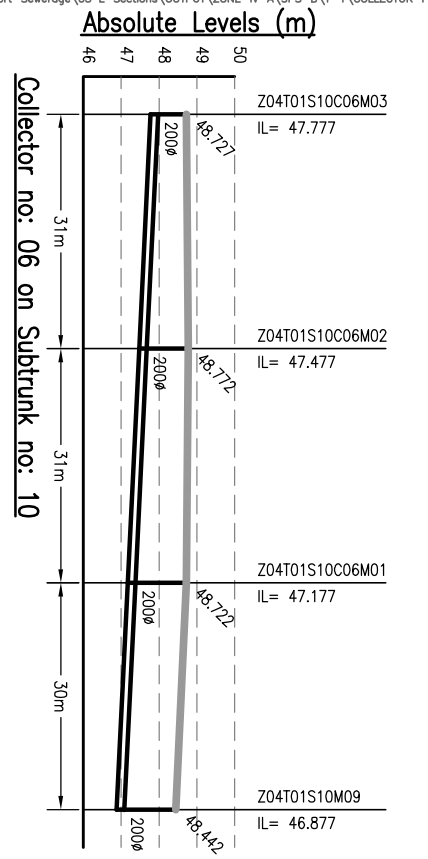
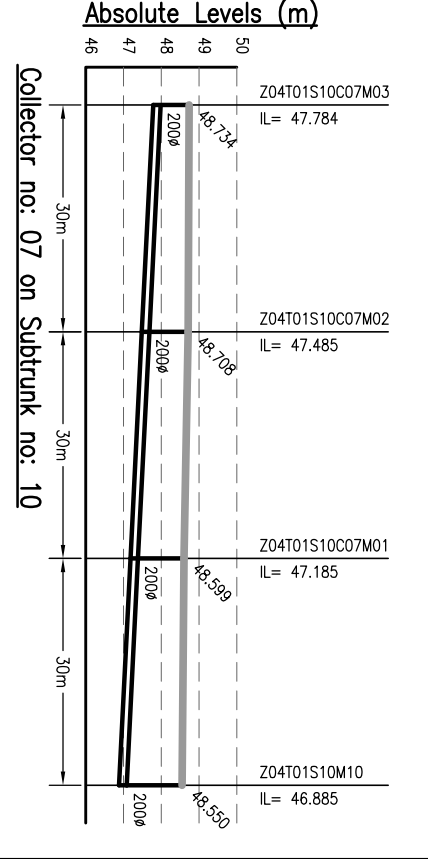
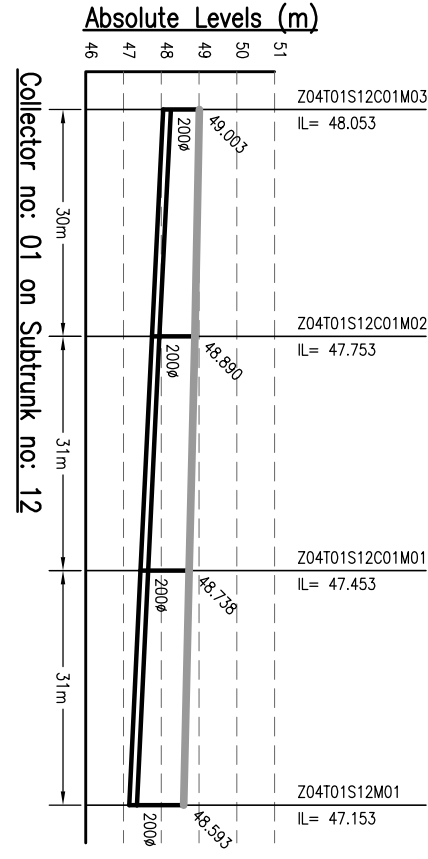
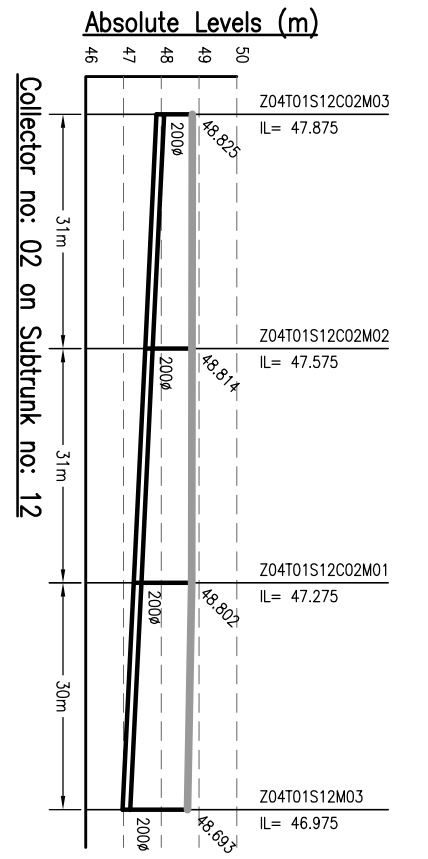
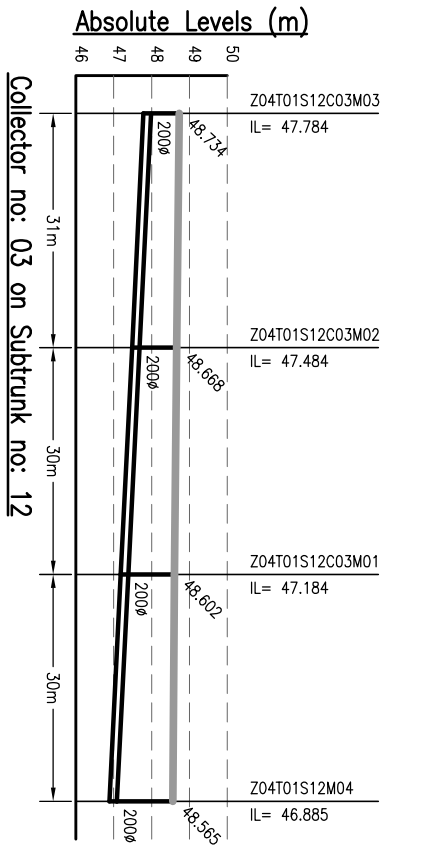
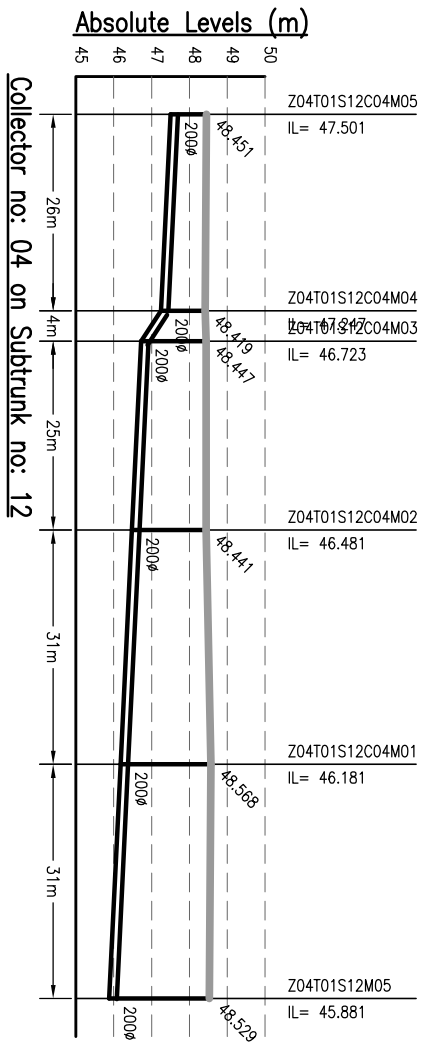
DRAWING TITLE
SEWERAGE
L-SECTION OF COLLECTOR
ZONE-4A, TRUNK-1 (SPS-B)
(PART - 9 OF 19)

PURPOSE OF ISSUE
DRAFT DETAILED PROJECT REPORT

SCALE: H-1000, V-200	SHEET SIZE: A3
DATE OF FIRST ISSUE	

BY: AH	DATE: MAY 2013
DESIGNED: JR	DATE: MAY 2013
CHECKED: RP	DATE: MAY 2013
APPROVED: CRR	DATE: MAY 2013

JOB NO. 1092.01	DISCIPLINE PH	DRAWING NO. Z4A-11-C-09	REVISION 00
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Drawing Base Reference:-
PNC WORK ORDER 3499, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	AH	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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BIHAR
 URBAN INFRASTRUCTURE
 DEVELOPMENT CORPORATION

**PREPARATION OF DETAILED
 PROJECT REPORTS (DPRS) & BID
 DOCUMENTS:
 TENDERING FOR EXECUTION;
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 DRAINAGE PROJECTS OF PATNA
 UNDER JNNURM**

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DRAWING TITLE
SEWERAGE
L-SECTION OF COLLECTOR
ZONE-4A, TRUNK-1 (SPS-B)
 (PART - 10 OF 19)

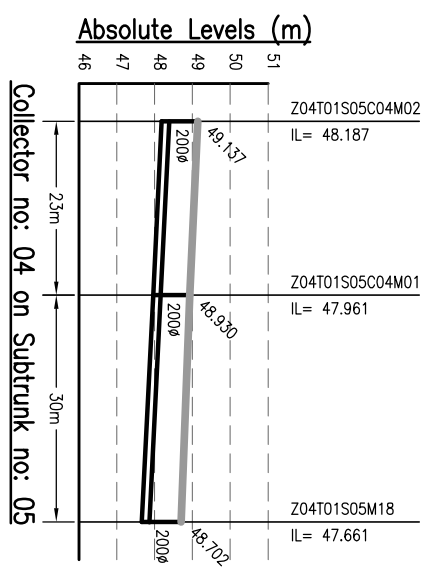
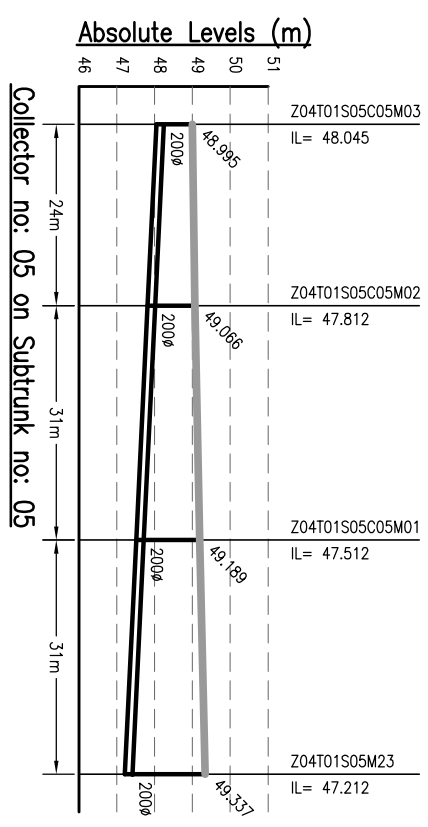
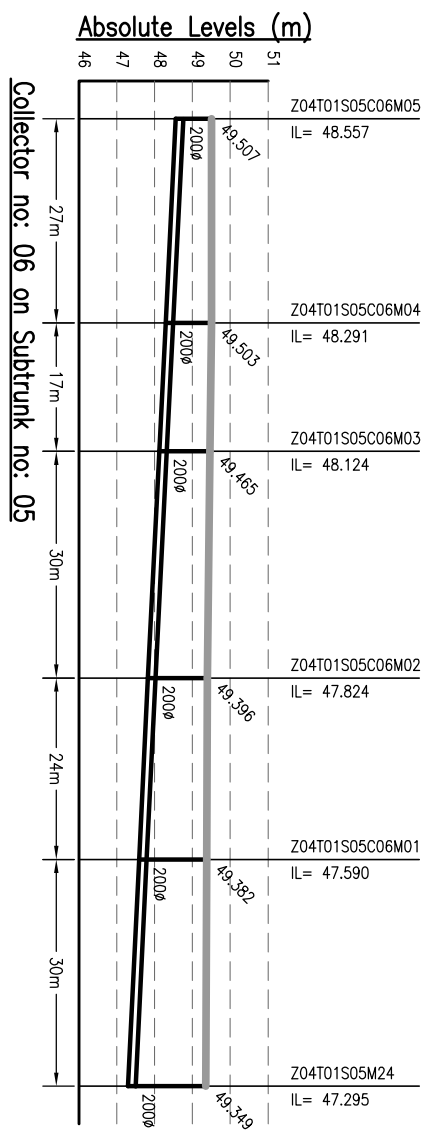
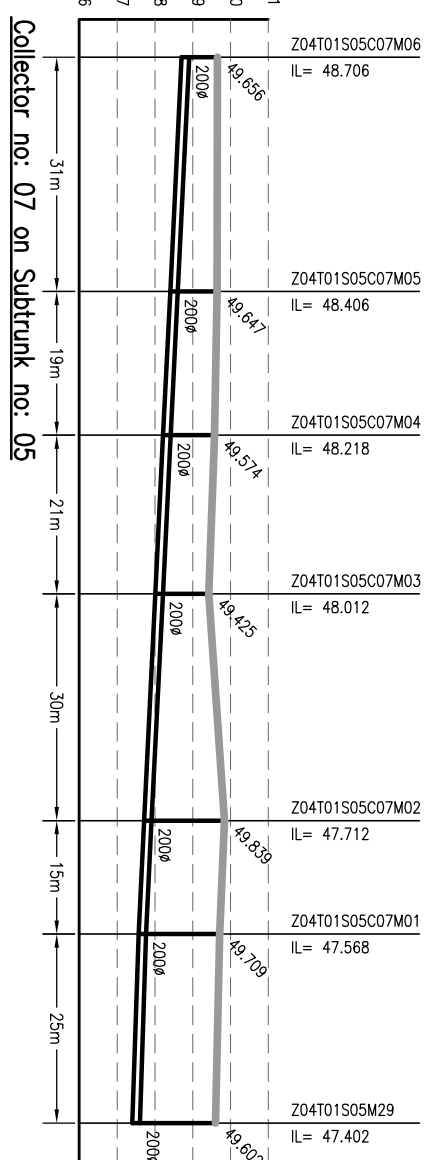
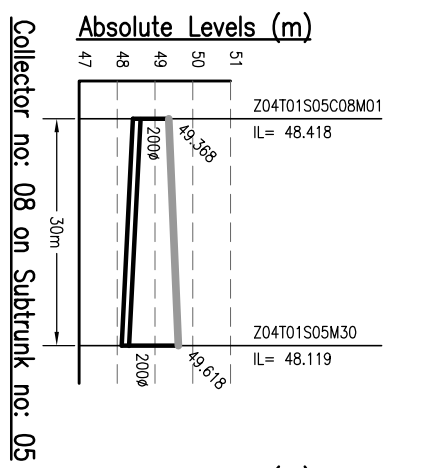
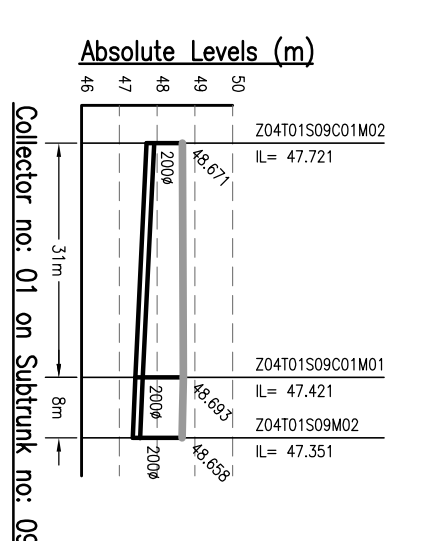
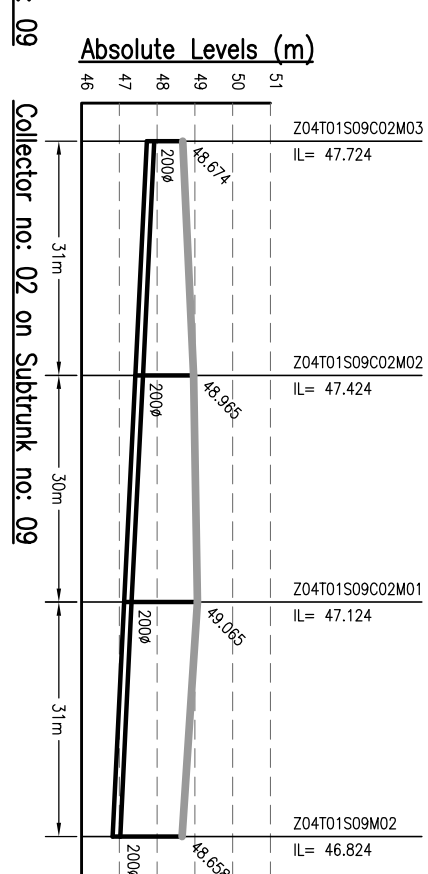
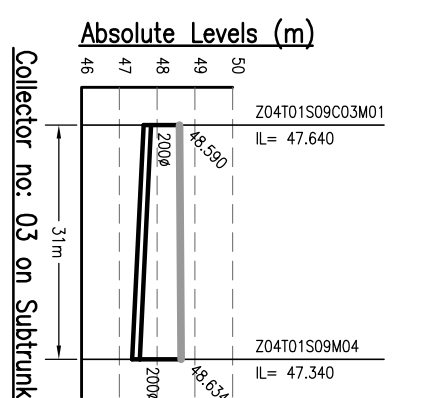
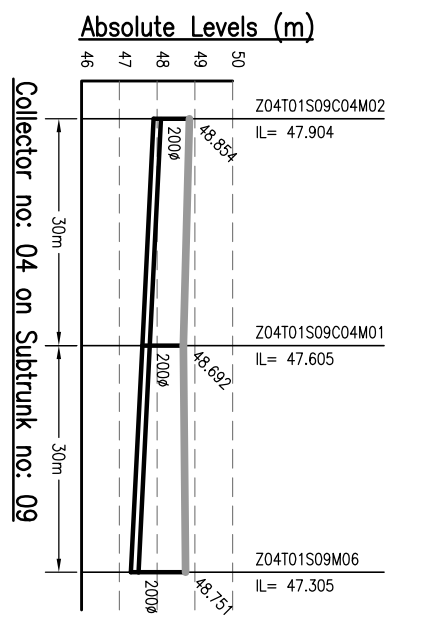
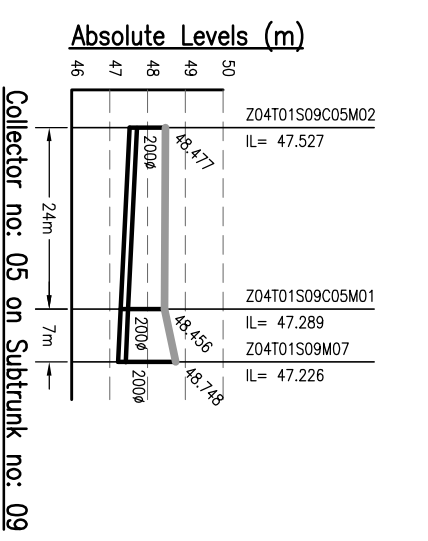
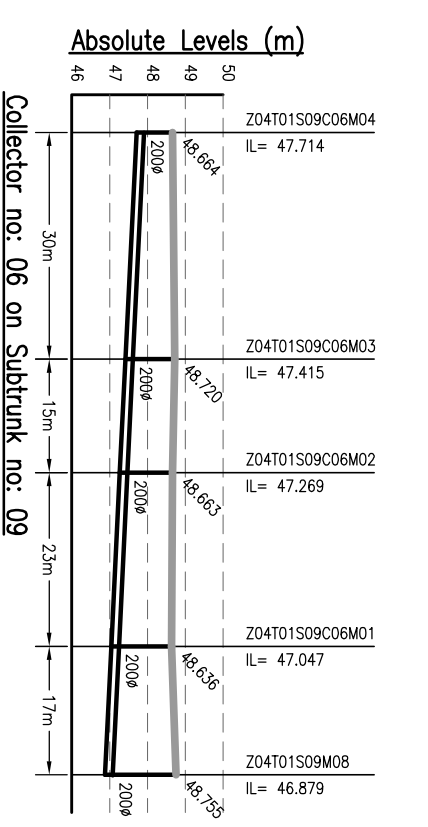
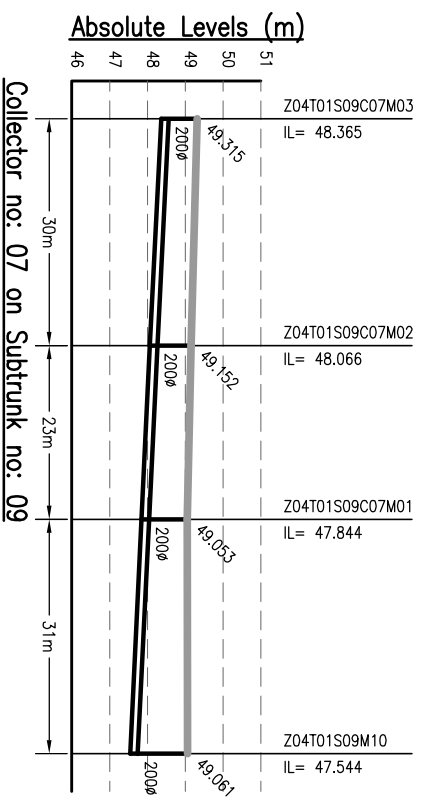
PURPOSE OF ISSUE
 DRAFT DETAILED PROJECT REPORT

SCALE: H-1000, V-200

SHEET SIZE: A3

NO.	DATE	BY	DATE OF FIRST ISSUE
DRAWN	BY	AH	MAY 2013
DESIGNED	BY	JR	MAY 2013
CHECKED	BY	RP	MAY 2013
APPROVED	BY	CRR	MAY 2013

JOB NO.: 1092.01
DISCIPLINE: PH
DRAWING NO.: Z4A-11-C-10
REVISION: 00



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4. REFER DRAWING NO. TO 491 & 1092.01-PH-S-01 TO 491 FOR LOCATION OF MANHOLE AND OTHER DETAILS.

Drawing Base Reference:-
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	AH	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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CLIENT:-

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 Phone: +91 120 2516165, Fax: +91 120 2515745
 Website: www.biharinfra.com, Email: info@biharinfra.com

PROJECT:-
 PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

CONSULTANT:-

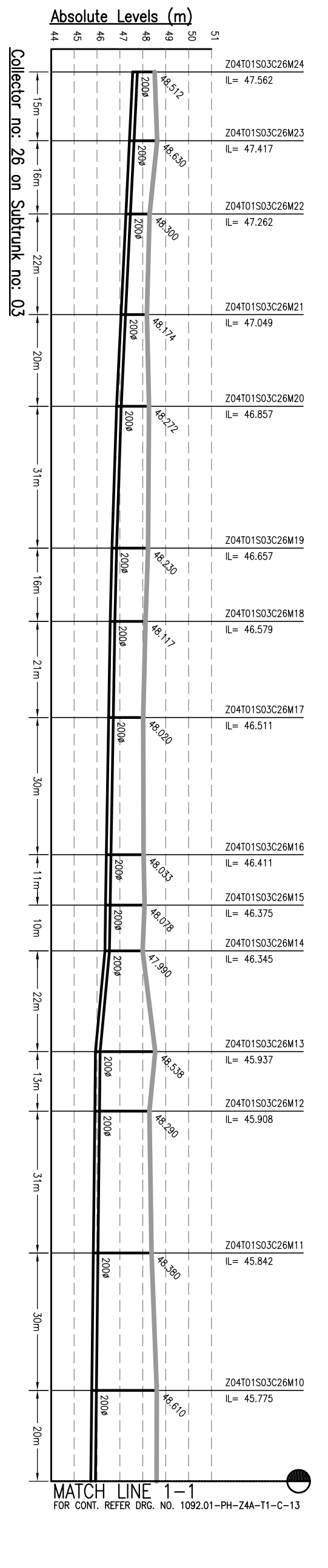
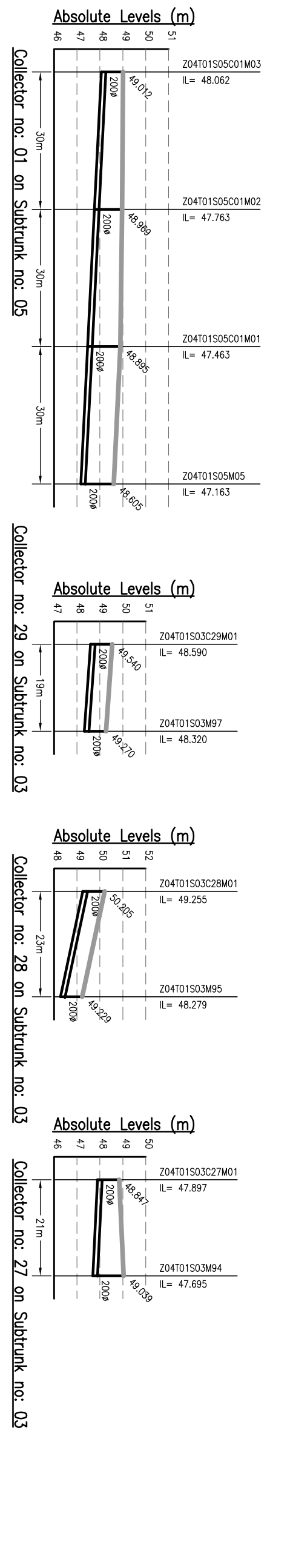
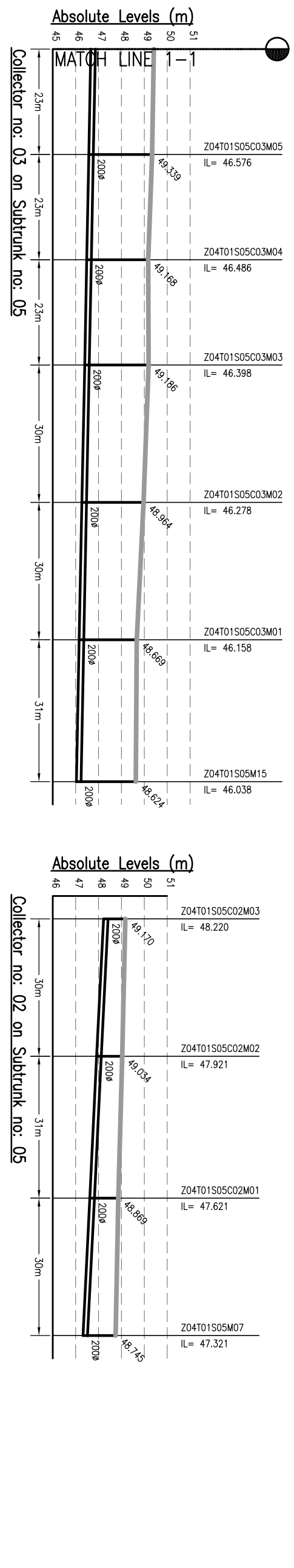
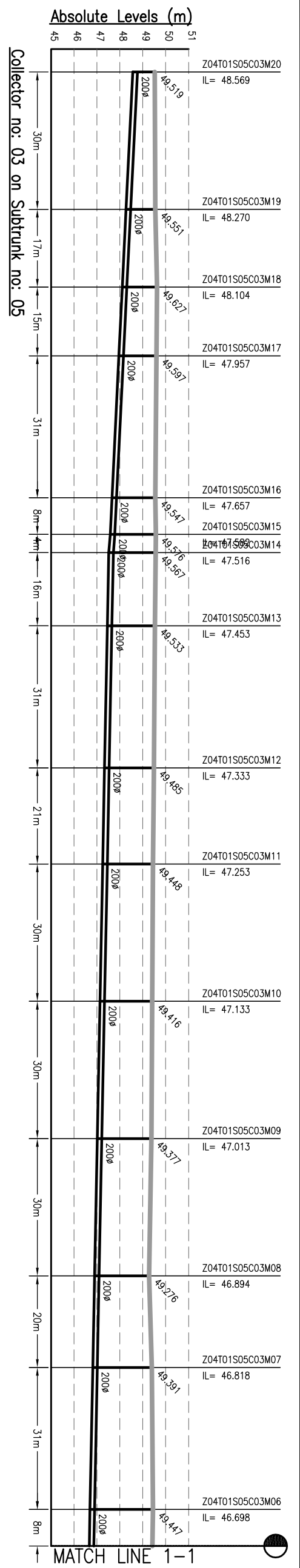
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SEWERAGE L-SECTION OF COLLECTOR ZONE-4A, TRUNK-1 (SPS-B) (PART - 11 OF 19)

SCALE: H-1000, V-200
 SHEET SIZE: A3

DESIGNED	BY	DATE OF FIRST ISSUE
CHECKED	BY	DATE OF FIRST ISSUE
APPROVED	BY	DATE OF FIRST ISSUE
DISCIPLINE	BY	DATE OF FIRST ISSUE

1092.01 PH Z4A-T1-C-11 00



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Drawing Base Reference:
PWC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	AH	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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CLIENT:-

CONSULTANT:-

MEINHARDT
URBAN INFRASTRUCTURE DEVELOPMENT CORPORATION
BIHAR

PROJECT:-
PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS:
TENDERING FOR EXECUTION:
CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

DRAWING TITLE:
SEWERAGE
L-SECTION OF COLLECTOR
ZONE-4A, TRUNK-1 (SPS-B)
(PART - 12 OF 19)

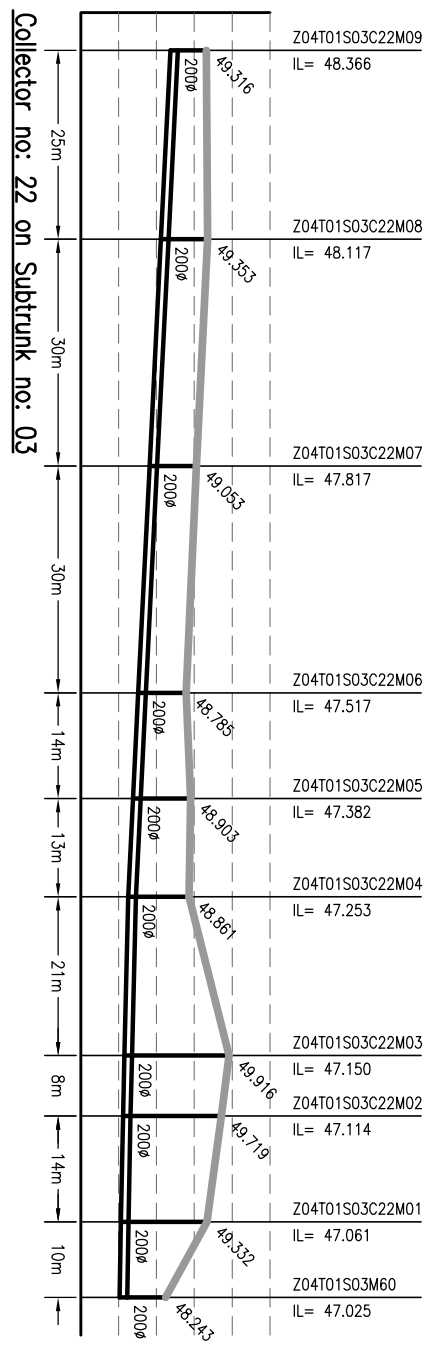
SCALE: H-1000, V-200

PURPOSE OF ISSUE: DRAFT DETAILED PROJECT REPORT

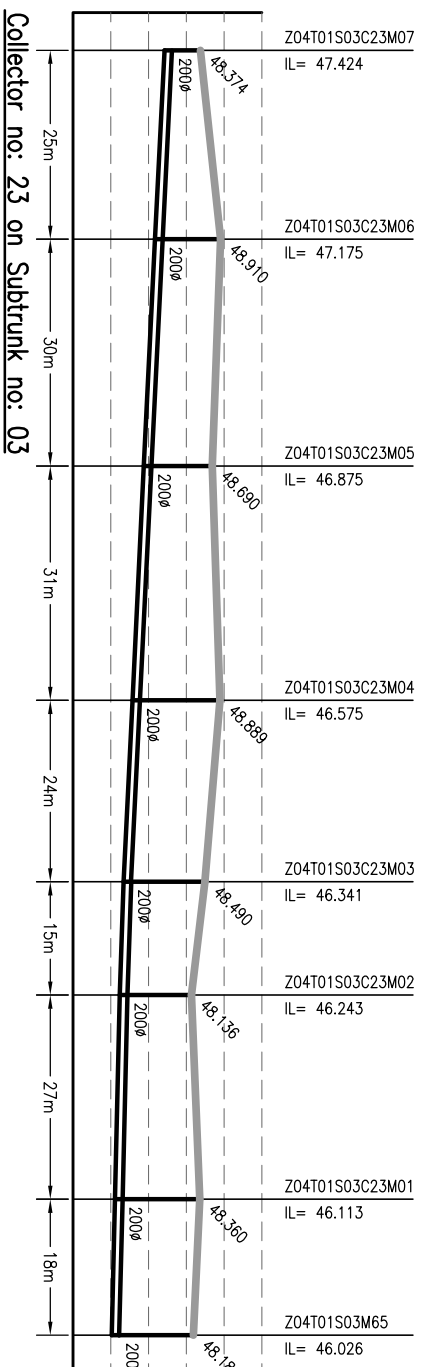
DISCIPLINE	NO.	DATE	BY	APPROVED
DESIGNED	JR	MAY 2013		
CHECKED	RP	MAY 2013		
APPROVED	CRR	MAY 2013		

JOB NO.: 1092.01
PH: Z4A-T1-C-12
REVISION: 00

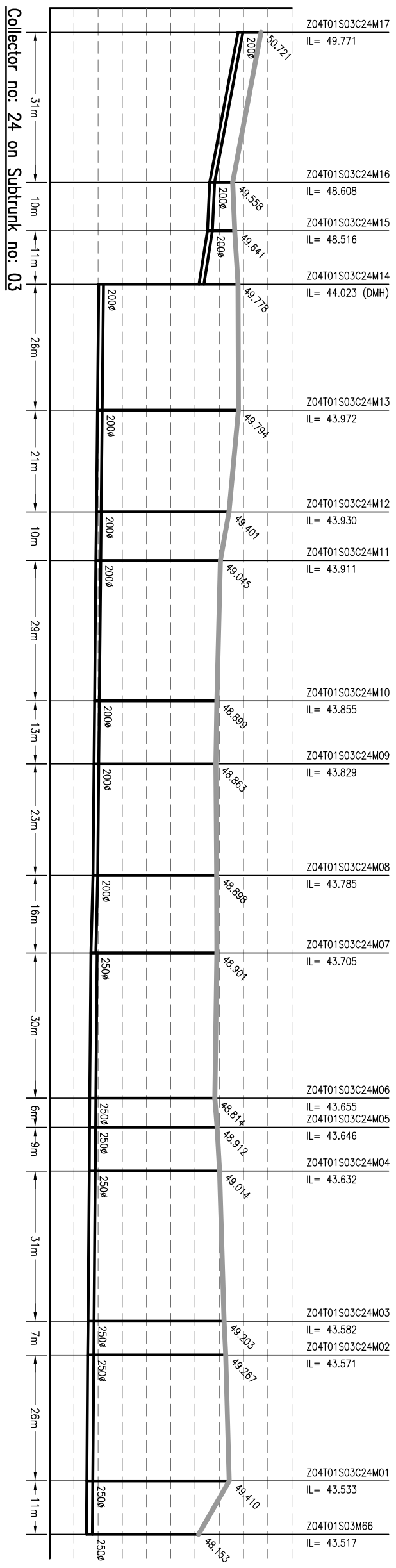
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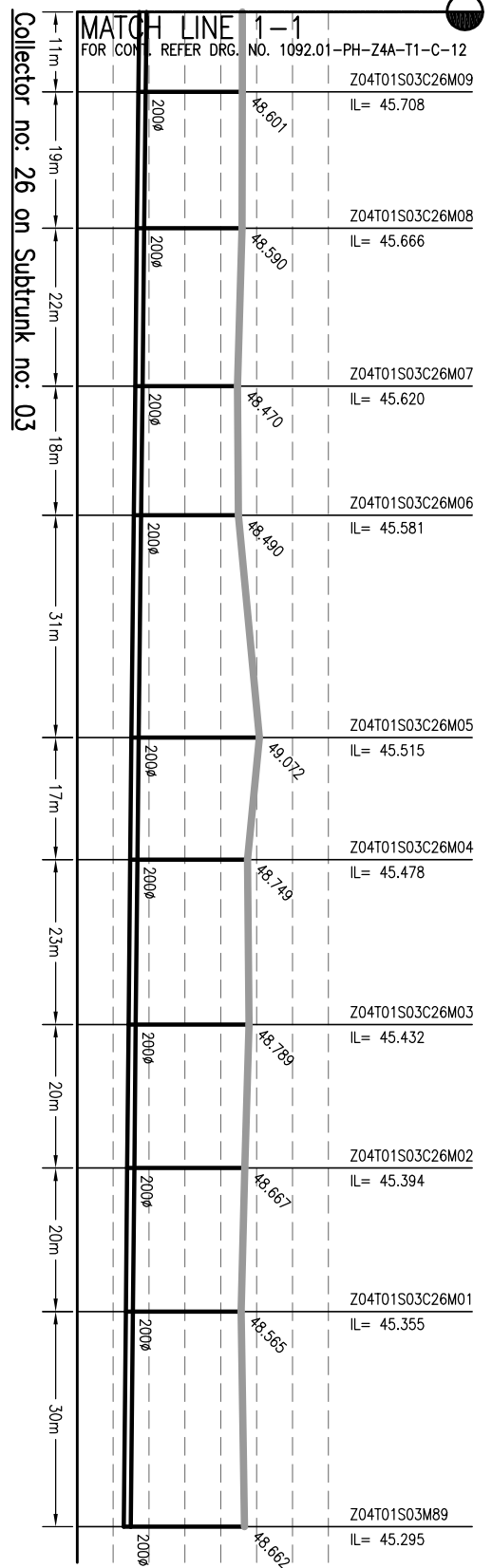
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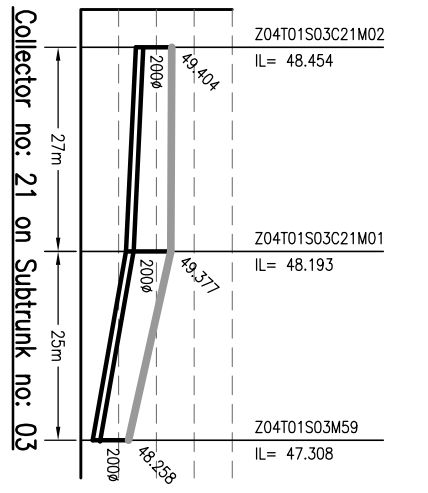
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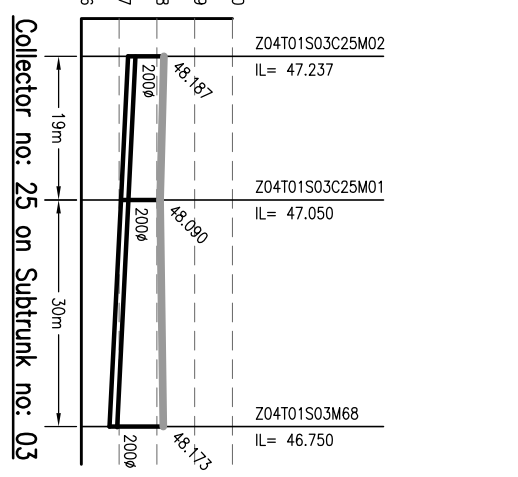
Absolute Levels (m)



Absolute Levels (m)



Absolute Levels (m)



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Drawing Base Reference:-
PMC WORK ORDER 3499, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	AH	DRAFT DPR SUBMISSION	RP

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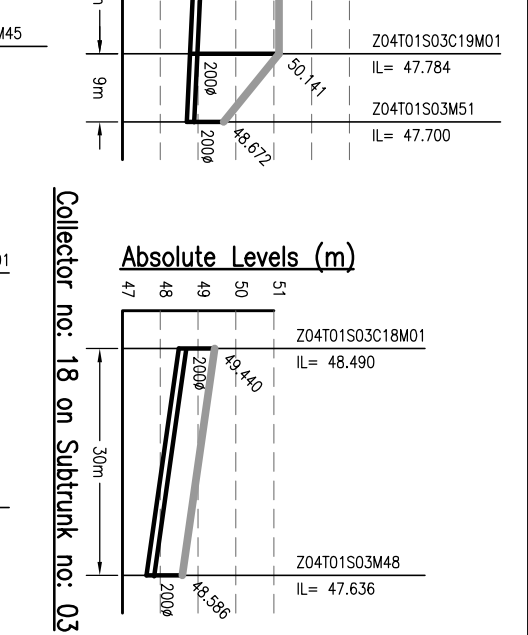
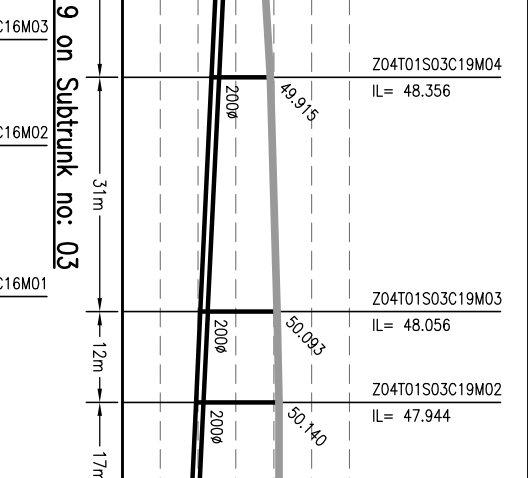
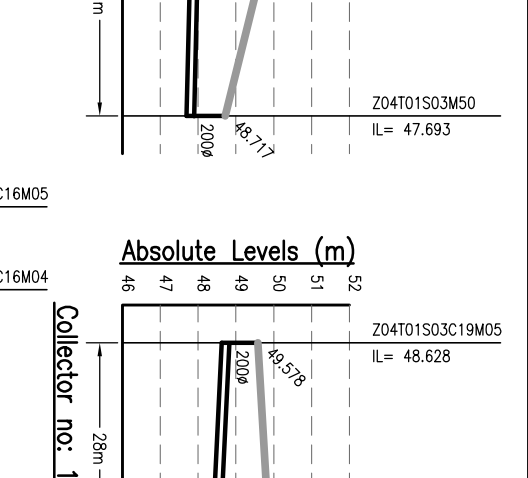
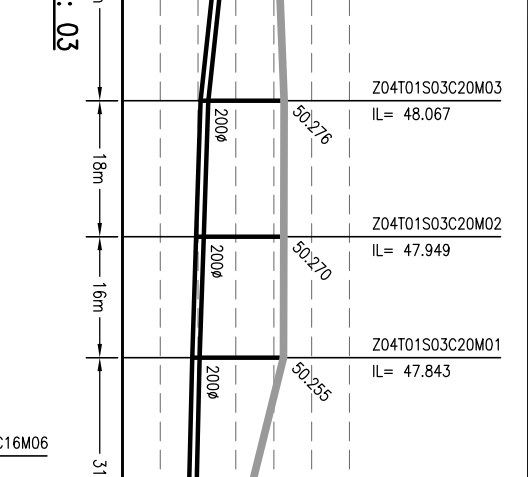
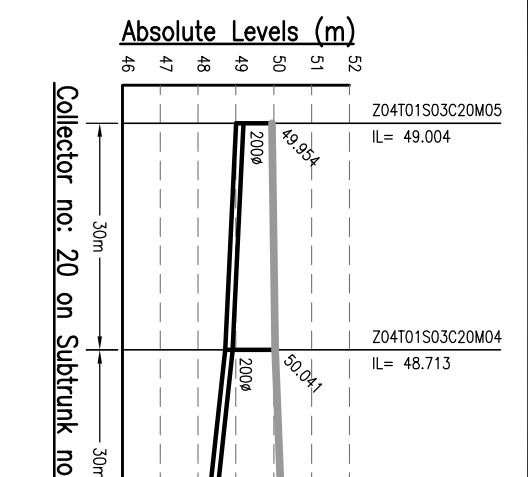
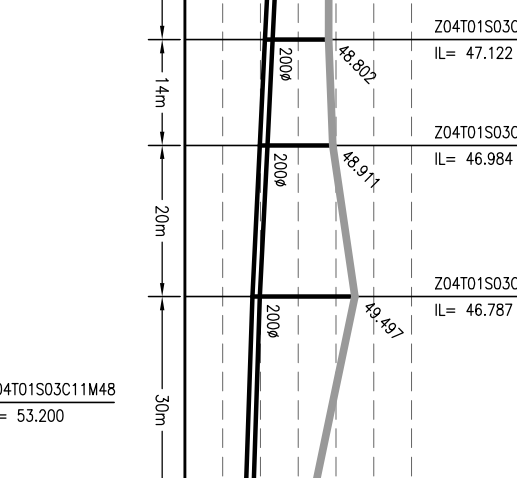
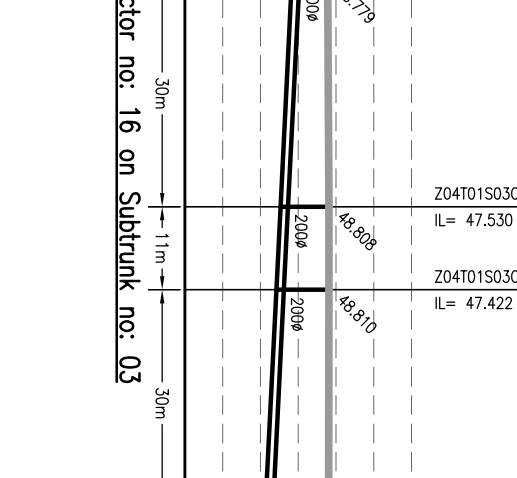
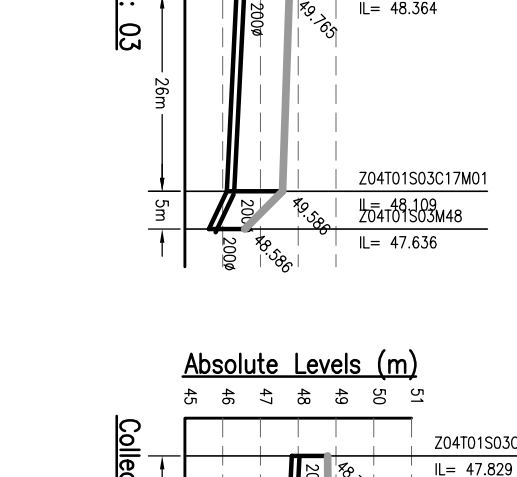
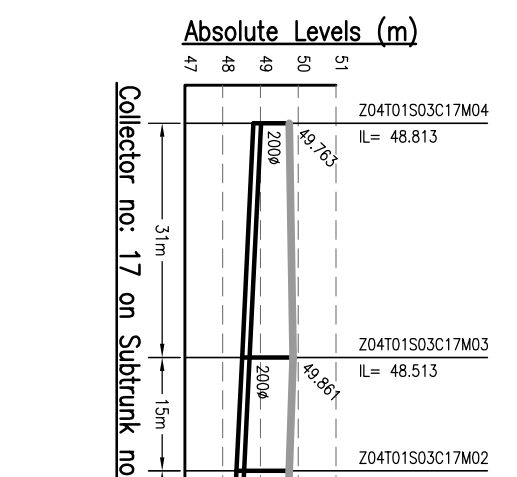
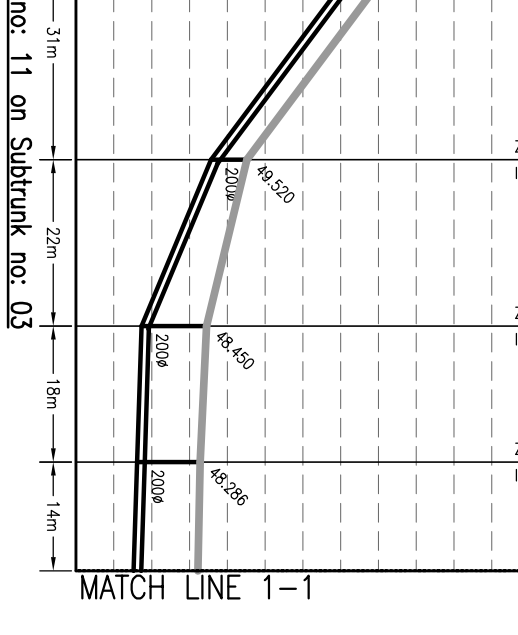
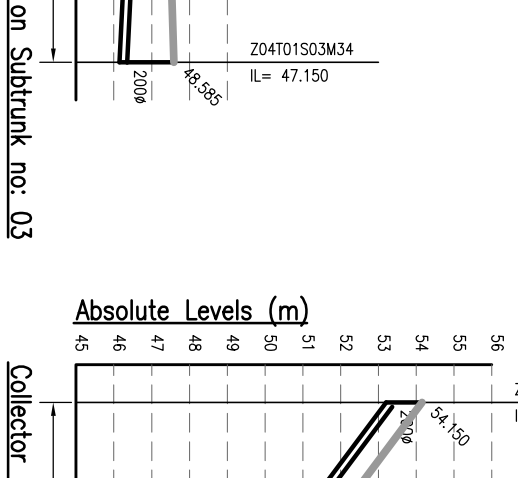
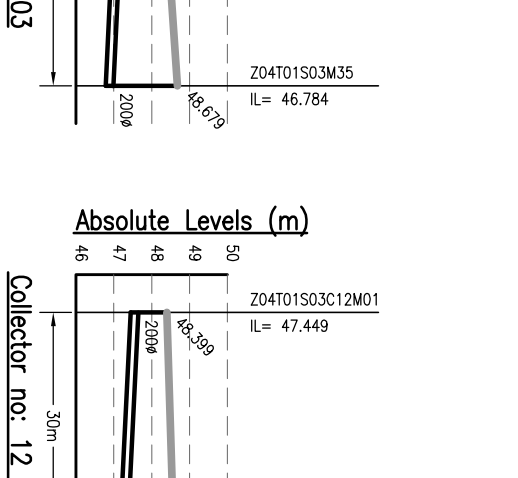
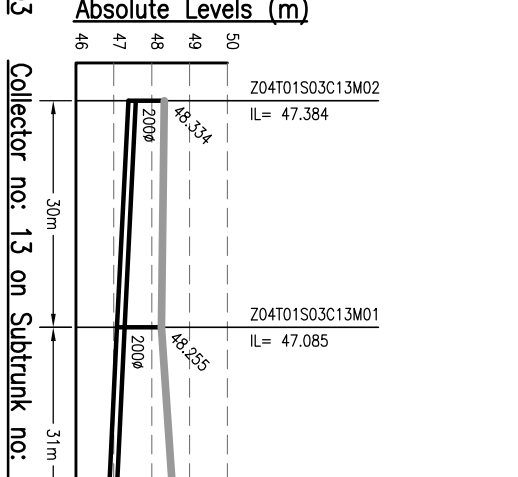
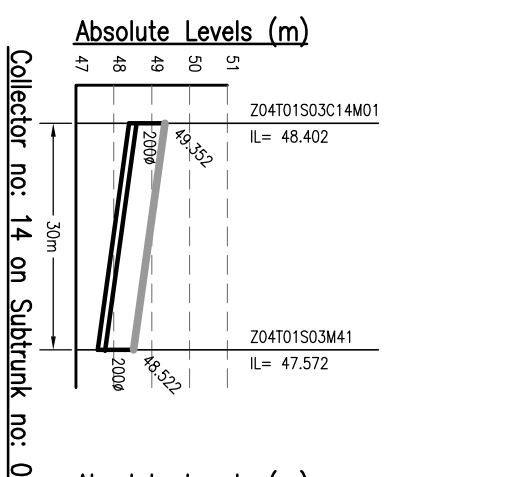
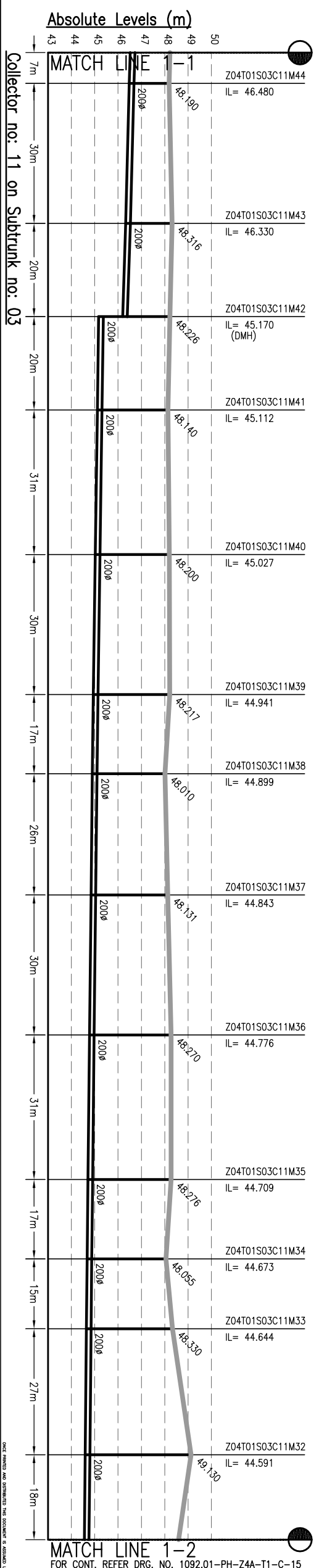
CLIENT:-
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303 Marina Tower, 30th Floor, 101, Bras Basah Road, Singapore 189566. Fax: +65 6733 0101. Tel: +65 6733 22 01/03. Website: www.bidc.gov.sg

PROJECT:-
PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS;
TENDERING FOR EXECUTION;
CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

CONSULTANT:-
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DRAWING TITLE
SEWERAGE
L-SECTION OF COLLECTOR
ZONE-4A, TRUNK-1 (SPS-B)
(PART - 13 OF 19)

DISCIPLINE	NO.	DATE	REVISION
PH	Z4A-11-C-13	MAY 2013	00



MATCH LINE 1-2
FOR CONT. REFER DRG. NO. 1092.01-PH-Z4A-T1-C-15

MATCH LINE 1-1

DESIGNED	DR	MAY 2013
CHECKED	RP	MAY 2013
APPROVED	CRR	MAY 2013
JOB NO.	DISCIPLINE	DRAWING NO.
1092.01	PH	Z4A-T1-C-14
		REVISION
		00

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CONSULTANTS

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BIHAR URBAN INFRASTRUCTURE DEVELOPMENT CORPORATION

PROJECT: PREPARATION OF DETAILED PROJECT REPORTS (DPRs) & BID DOCUMENTS; TENDERING FOR EXECUTION; CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

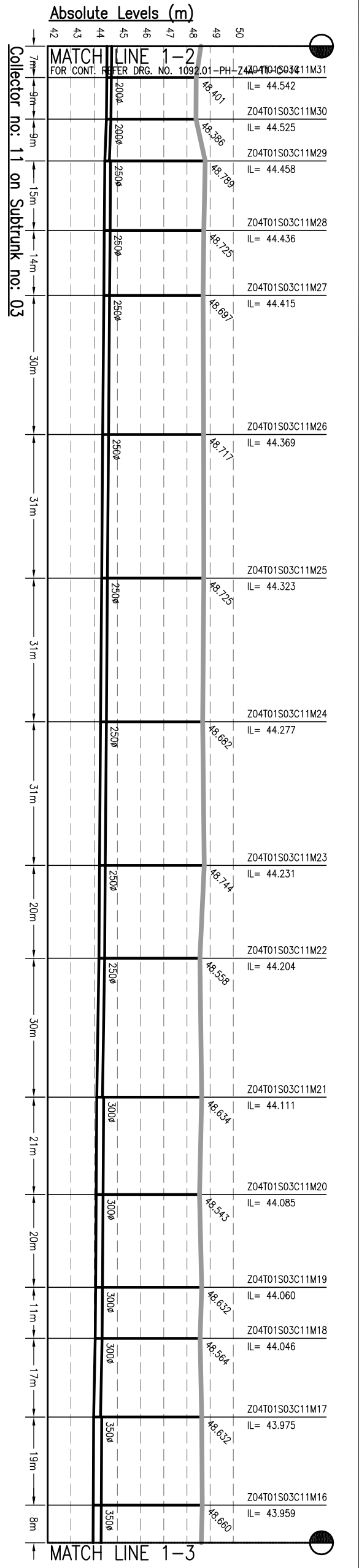
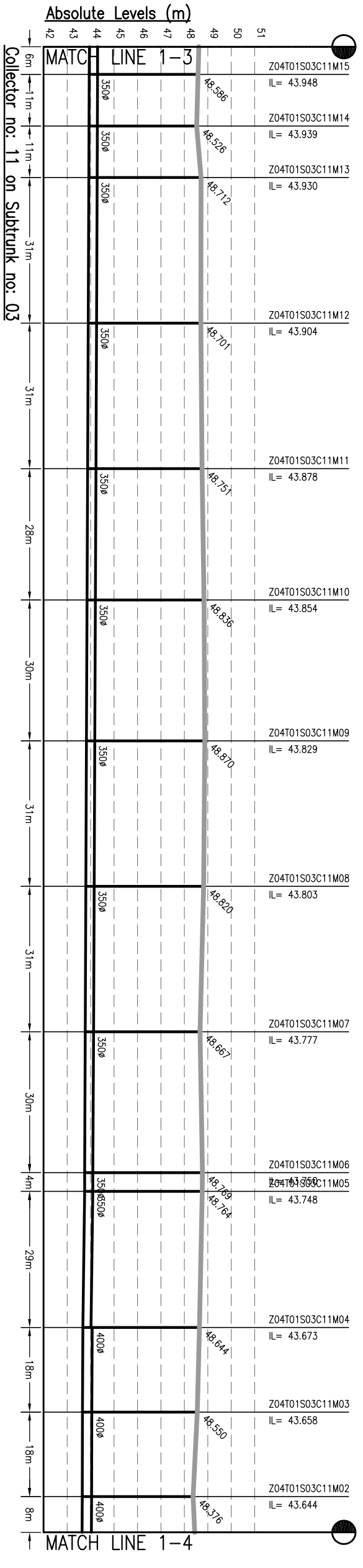
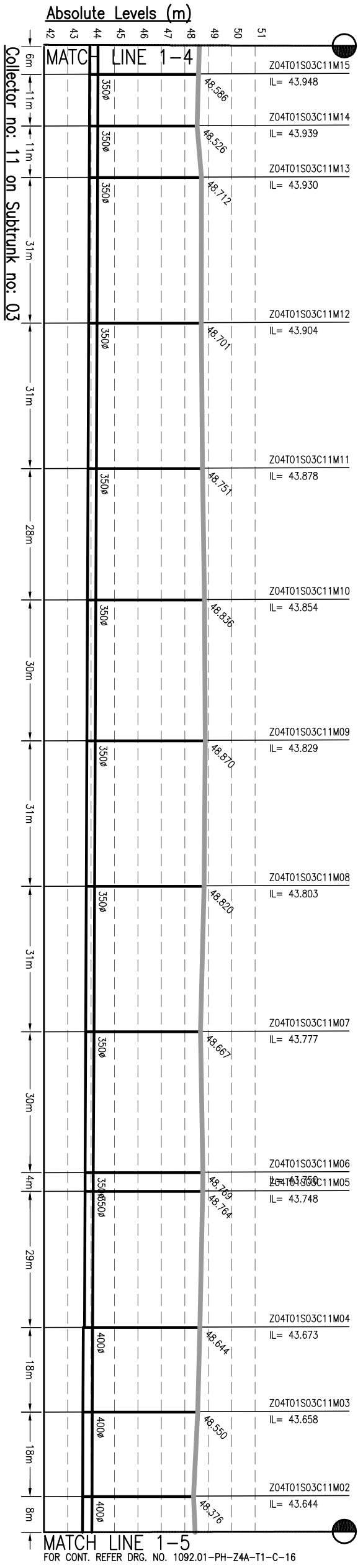
CLIENT: BIHAR URBAN INFRASTRUCTURE DEVELOPMENT CORPORATION

303, Mahara Tower, Sector-16, Noida-201301, India
Phone: +91 120 2510101, Fax: +91 120 2510103
Website: http://www.bidc.gov.in

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	AH	DRAFT DPR SUBMISSION	RP

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Drawing Base Reference:
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	AH	DRAFT DPR SUBMISSION	RP

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PROJECT:-
PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS; TENDERING FOR EXECUTION; CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNUURM

CONSULTANT:-
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 www.meinhardtgroup.com, Email: info@meinhardtindia.com

DRAWING TITLE
SEWERAGE
L-SECTION OF COLLECTOR
ZONE-4A, TRUNK-1 (SPS-B)
 (PART - 15 OF 19)

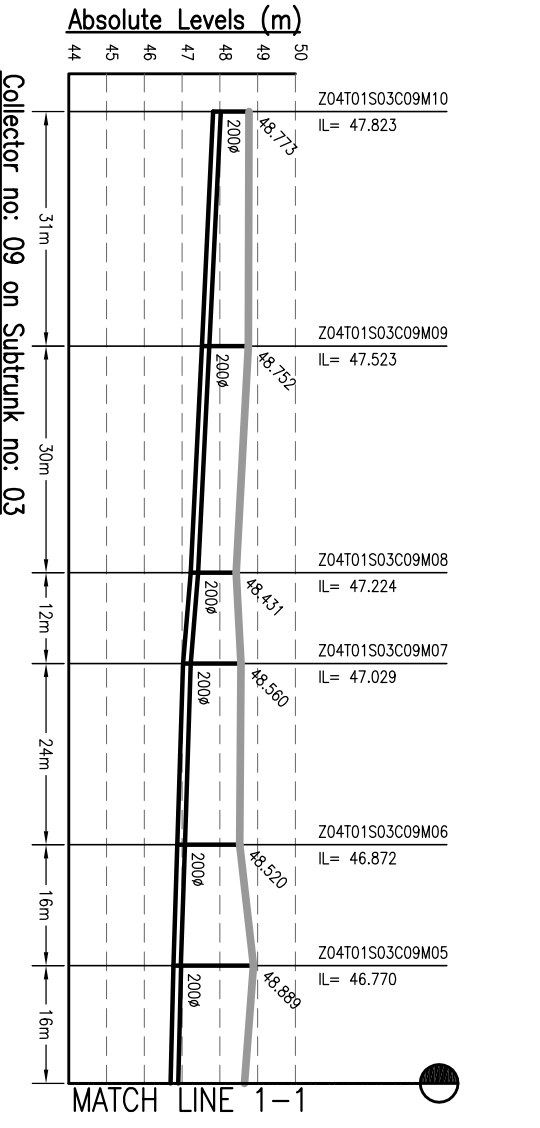
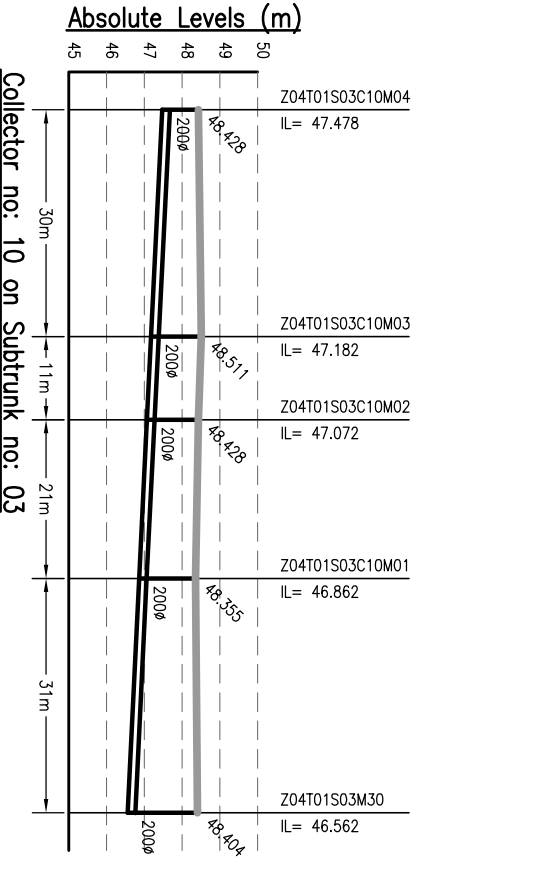
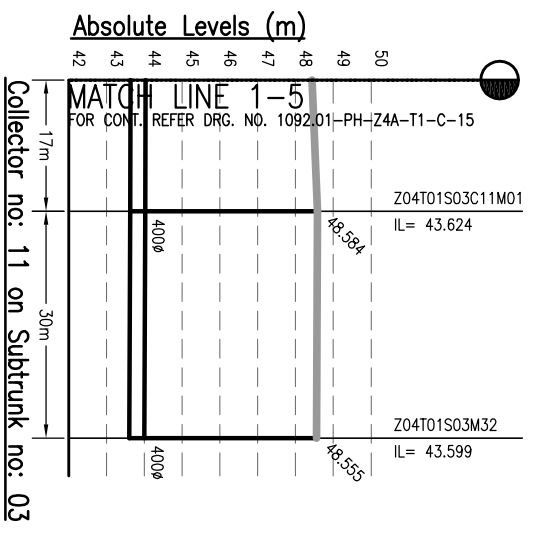
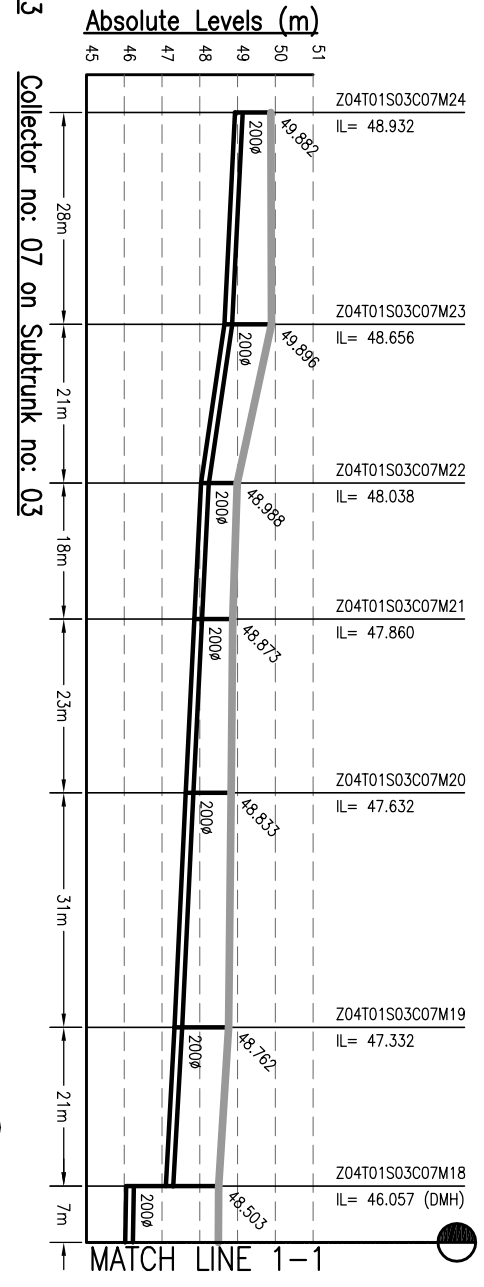
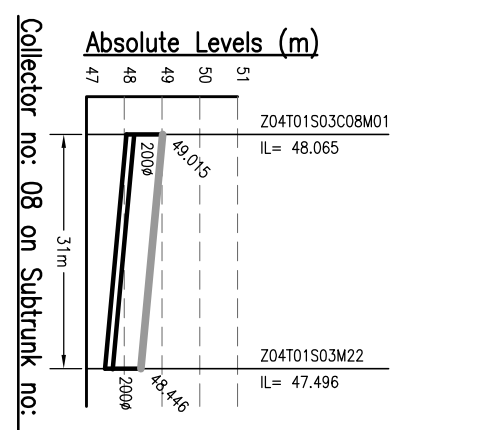
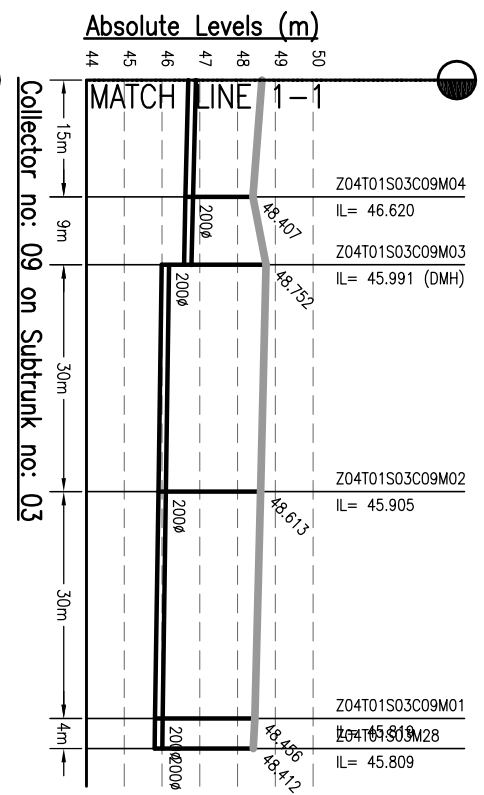
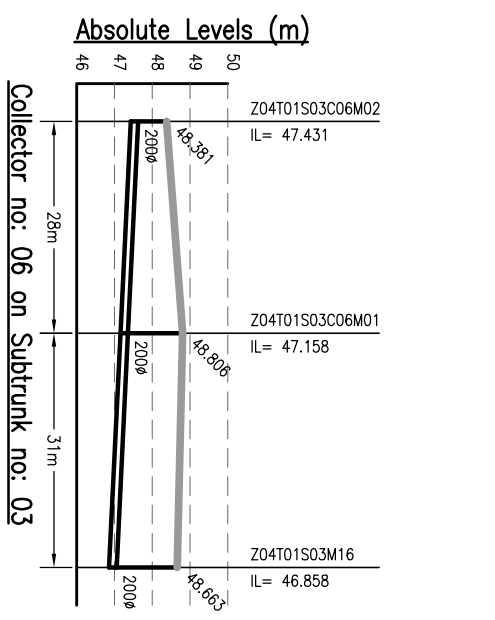
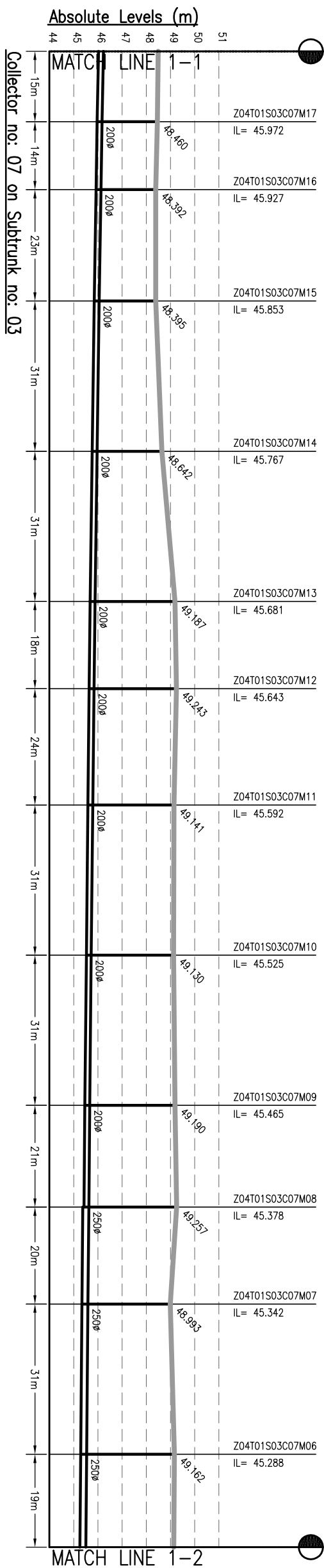
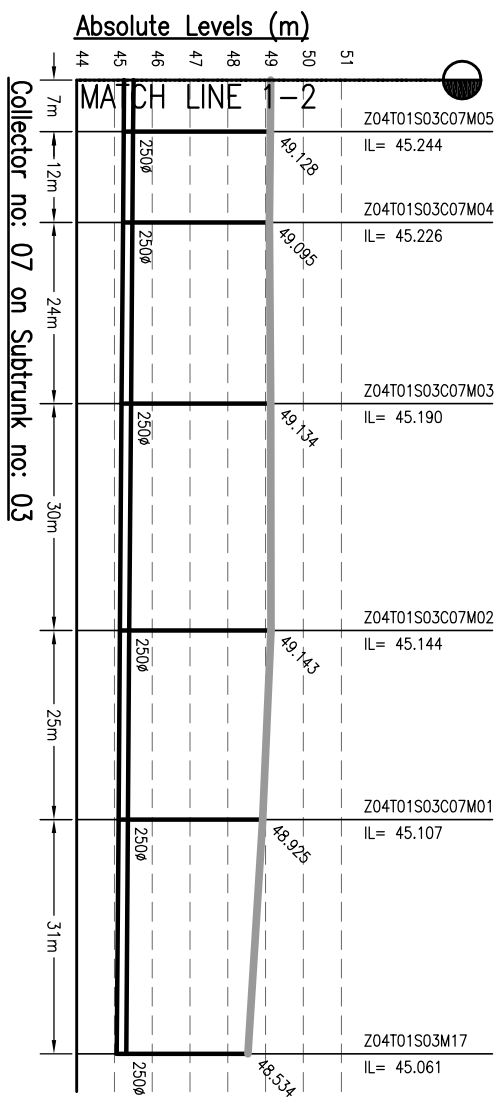
PURPOSE OF ISSUE
 DRAFT DETAILED PROJECT REPORT

SCALE :- H-1000, V-200

SHEET SIZE :- A3

BY	DATE OF FIRST ISSUE
AH	MAY 2013
JR	MAY 2013
RP	MAY 2013
CRR	MAY 2013

JOB NO. 1092.01
 DISCIPLINE PH
 DRAWING NO. Z4A-T1-C-15
 REVISION 00



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Drawing Base Reference:-
PWC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	AH	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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 Website: www.meinhardt.com

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 URBAN INFRASTRUCTURE
 DEVELOPMENT CORPORATION

PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS:
TENDERING FOR EXECUTION:
CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

CONSULTANT:-

MEINHARDT
 MEINHARDT (SINGAPORE) PTE. LTD.
 A-8, Sector-16, Noida-201301, India
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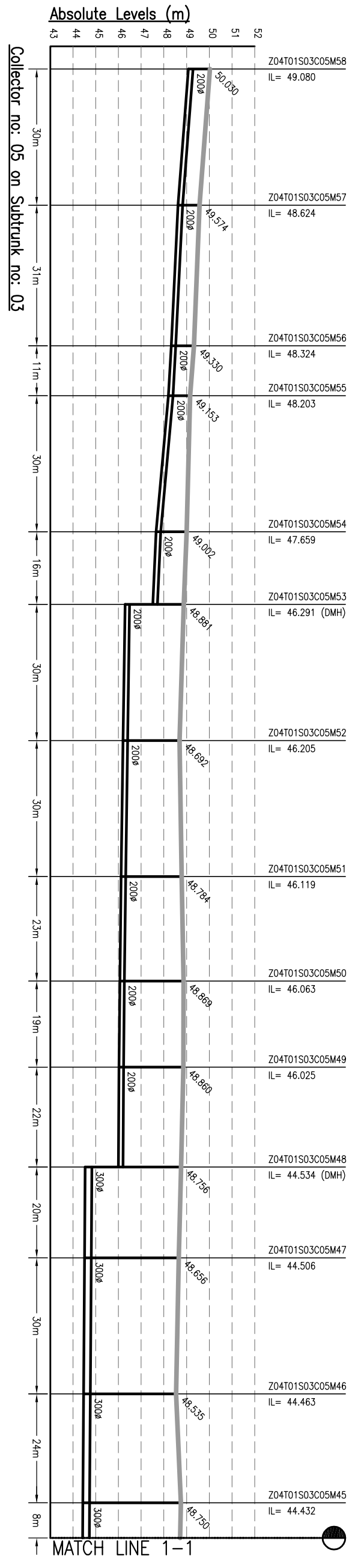
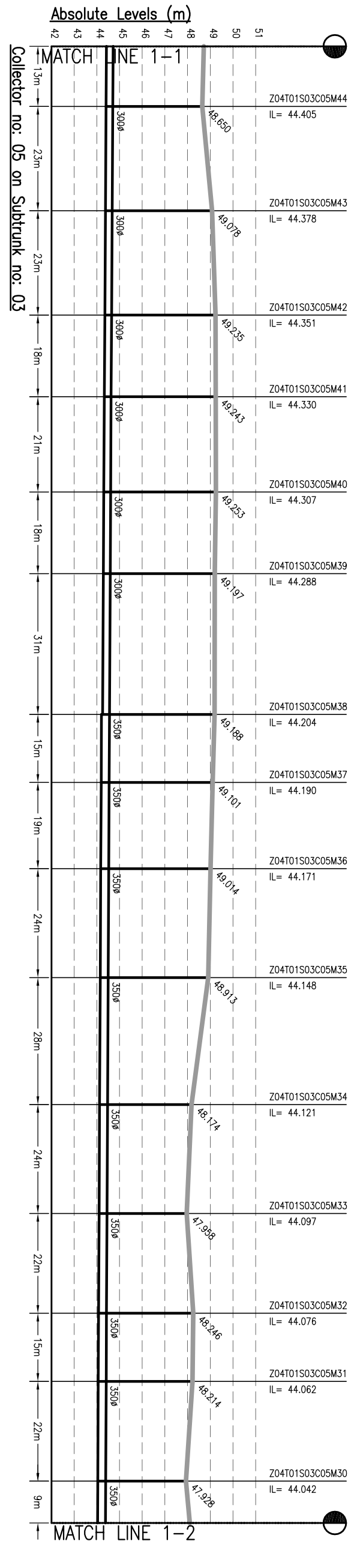
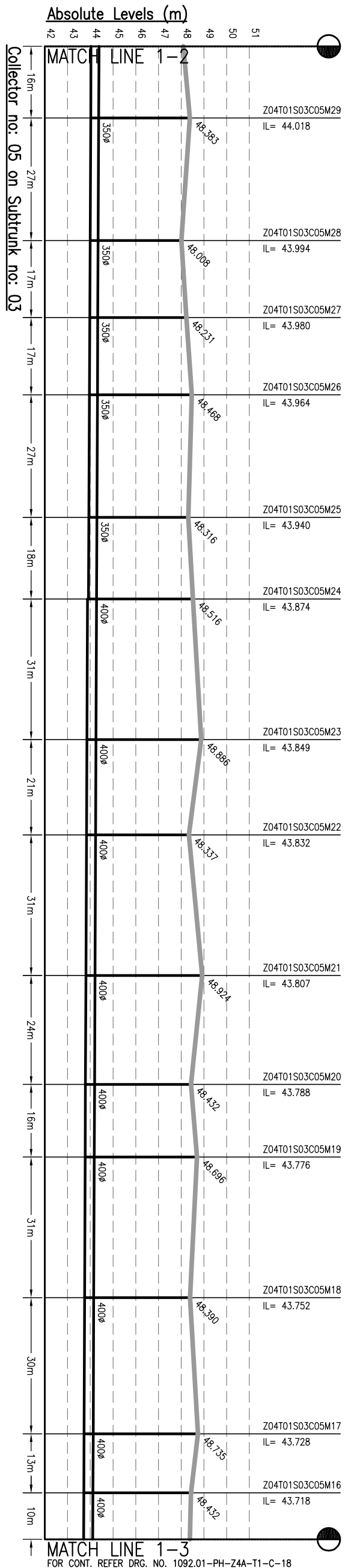
DRAWING TITLE
SEWERAGE
L-SECTION OF COLLECTOR
ZONE-4A, TRUNK-1 (SPS-B)
 (PART - 16 OF 19)

PURPOSE OF ISSUE
 DRAFT DETAILED PROJECT REPORT

SCALE	DATE OF FIRST ISSUE
H-1000, V-200	MAY 2013

DRAWN BY: AH DATE: MAY 2013
 CHECKED BY: JR DATE: MAY 2013
 APPROVED BY: CRR DATE: MAY 2013

JOB NO. 1092.01 DISCIPLINE PH DRAWING NO. Z4A-T1-C-16 REVISION 00



FOR CONT. REFER DRG. NO. 1092.01-PH-Z4A-T1-C-18

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4-B, Sector-16, Noida-201301, India
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www.meinhardtgroup.com, Email: info@meinhardtindia.com

URBAN INFRASTRUCTURE DEVELOPMENT CORPORATION
BIHAR

PREPARATION OF DETAILED PROJECT REPORTS (DPRs) & BID DOCUMENTS; TENDERING FOR EXECUTION; CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNUURM

CONSULTANT:

PROJECT:

SEWERAGE L-SECTION OF COLLECTOR ZONE-4A, TRUNK-1 (SPS-B) (PART - 17 OF 19)

DRAWING TITLE:

SCALE: H-1000, V-200

DRAWN: AH, MAY 2013

CHECKED: JR, MAY 2013

APPROVED: CRR, MAY 2013

JOB NO.: 1092.01

DISCIPLINE: PH

DRAWING NO.: Z4A-T1-C-17

REVISION: 00

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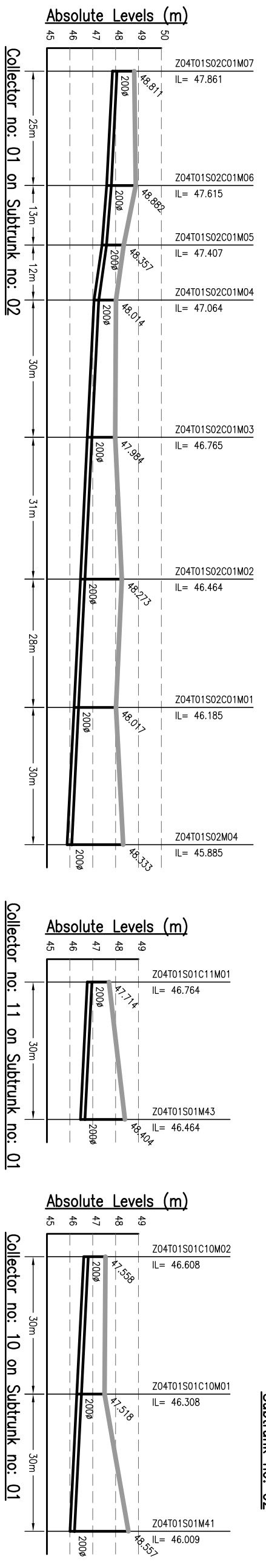
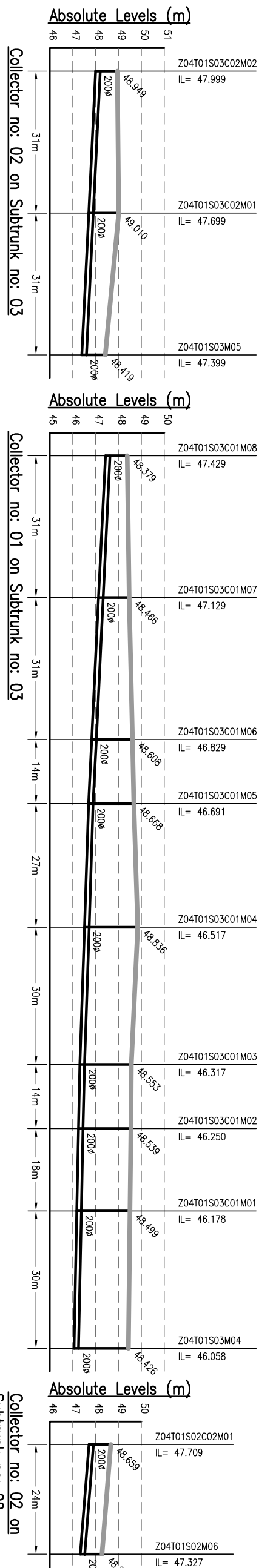
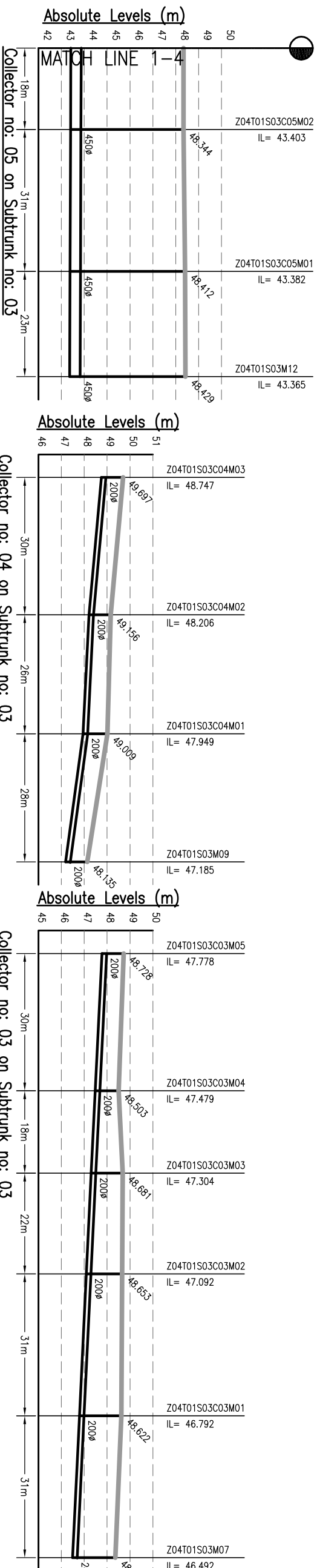
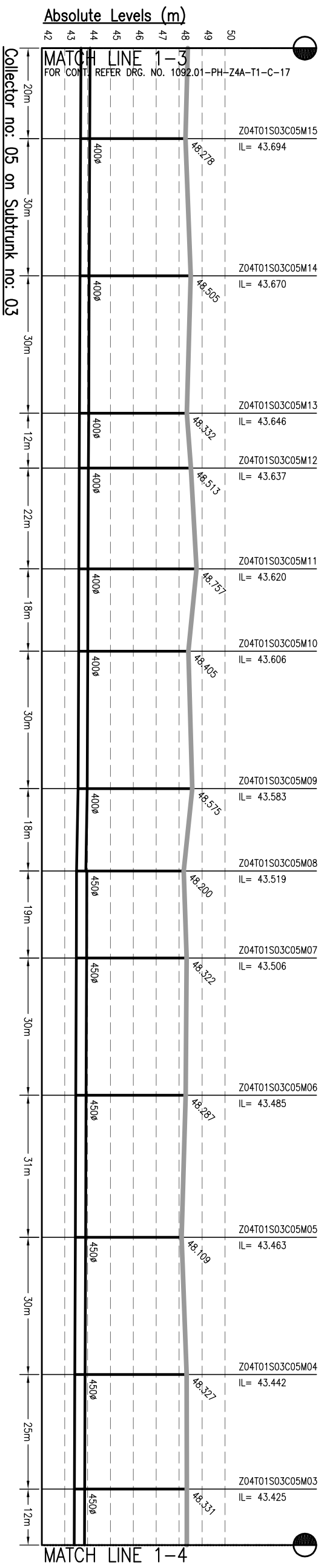
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REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	AH	DRAFT DPR SUBMISSION	RP

AMENDMENTS

Drawing Base Reference: **PWC WORK ORDER 3489, DATED 15 DECEMBER 2009.**

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Drawing Base Reference:-
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	AH	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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CLIENT:-

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Phone: +65 6722 0101 Fax: +65 6722 0103
Website: www.meinhardt.com

PROJECT:-
PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS;
TENDERING FOR EXECUTION;
CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

CONSULTANT:-

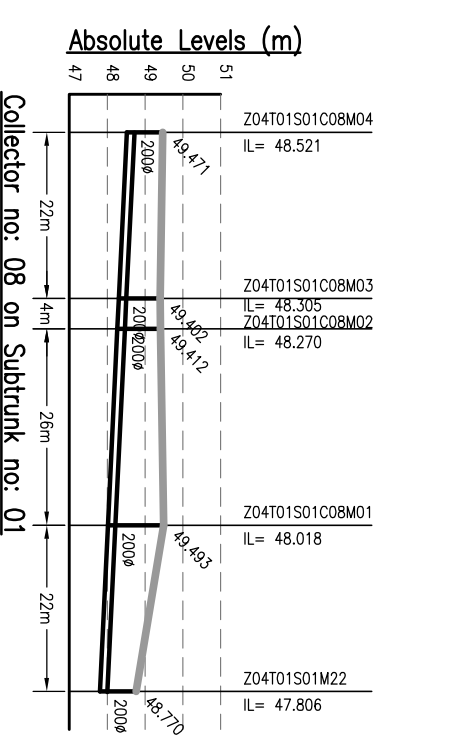
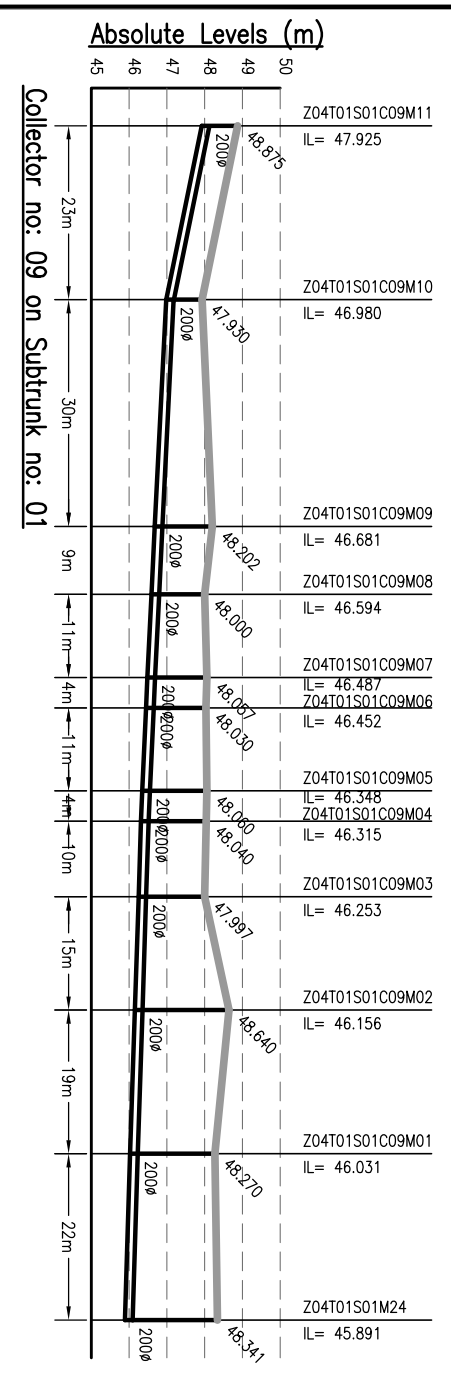
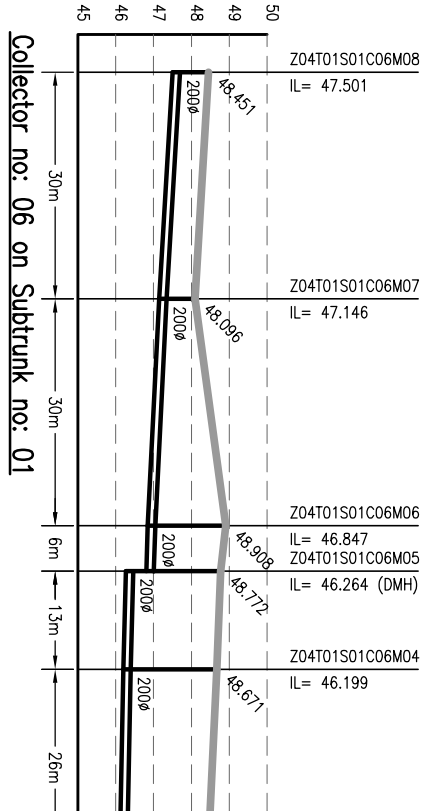
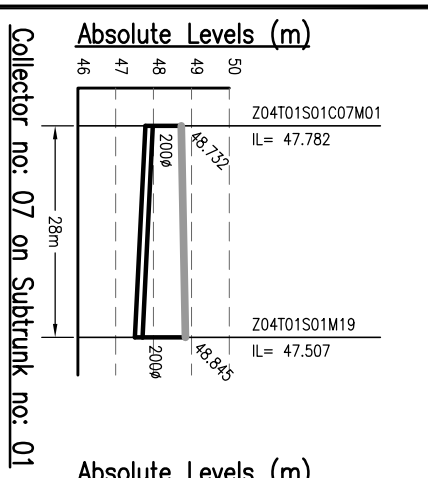
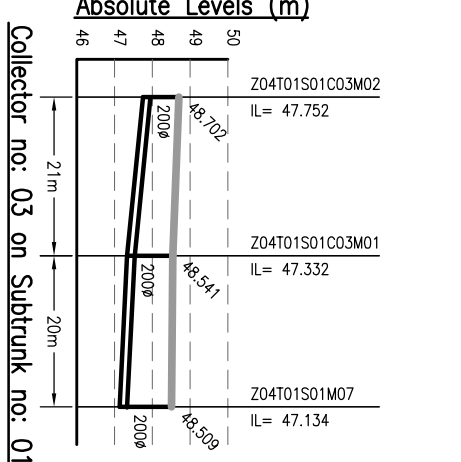
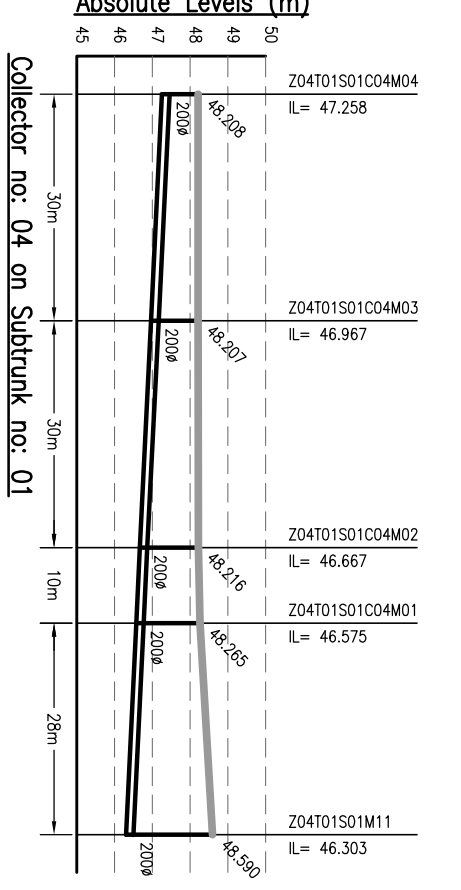
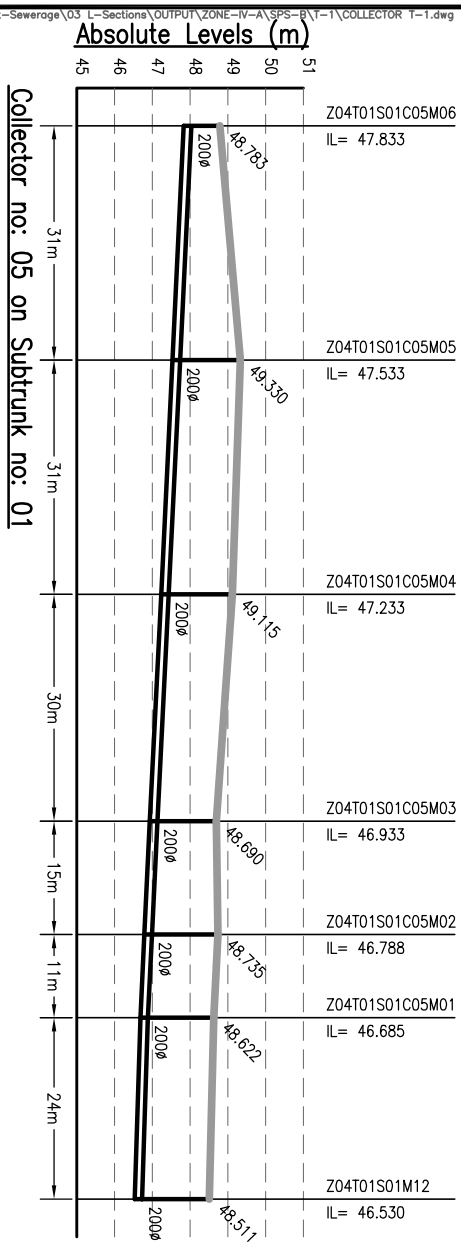
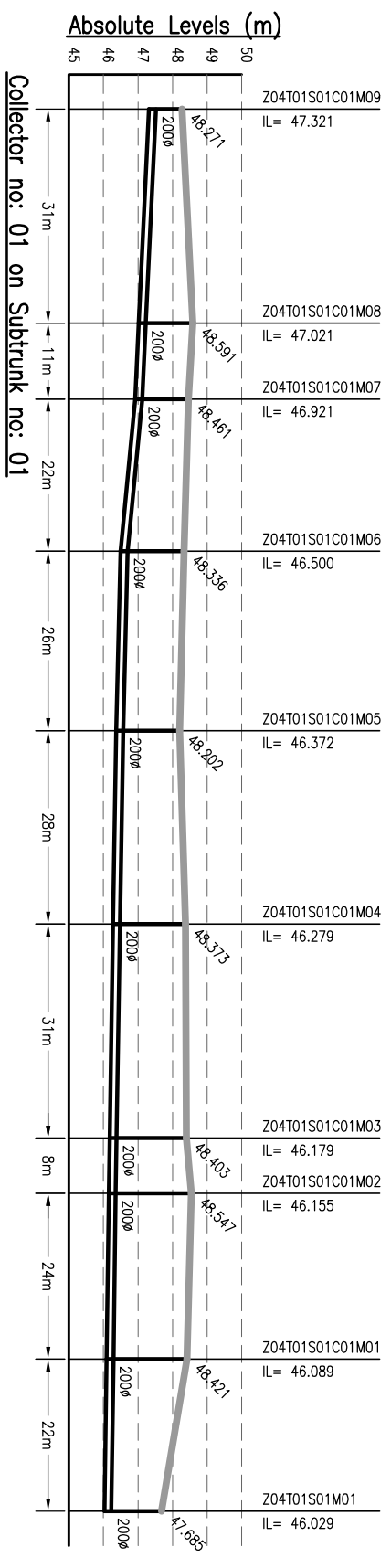
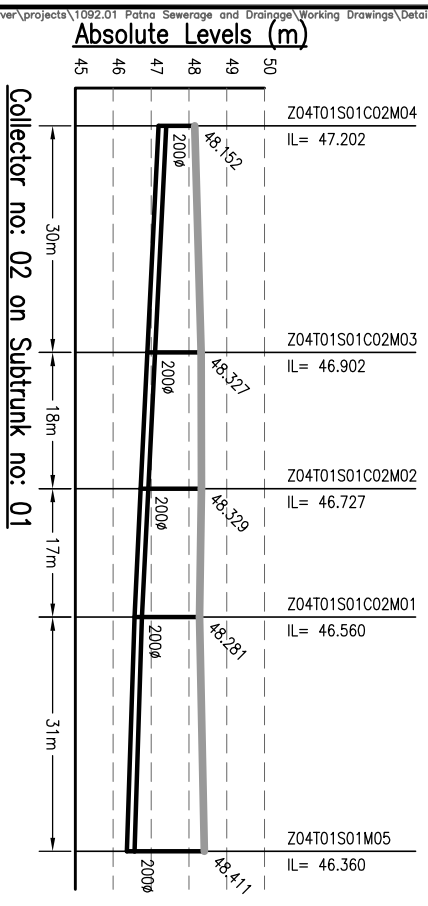
MEINHARDT
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DRAWING TITLE
SEWERAGE
L-SECTION OF COLLECTOR
ZONE-4A, TRUNK-1 (SPS-B)
(PART - 18 OF 19)

DISCIPLINE	DATE OF FIRST ISSUE	SCALE
REPORT		H-1000, V-200
PROJECT		A3

DESIGNED	CHECKED	APPROVED	JOB NO.
AH	JR	CRR	1092.01
MAY 2013	MAY 2013	MAY 2013	

REVISION	NO.	DESCRIPTION
PH	01	Z4A-T1-C-18
	00	



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Client: BIHAR URBAN INFRASTRUCTURE DEVELOPMENT CORPORATION
 PROJECT: PREPARATION OF DETAILED PROJECT REPORTS (DPR) & BID DOCUMENTS;
 TENDERING FOR EXECUTION;
 QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

CONSULTANT: MEINHARDT (SINGAPORE) PTE. LTD.
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 www.meinhardtgroup.com, Email: info@meinhardtindia.com

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	AH	DRAFT DPR SUBMISSION	RP

AMENDMENTS

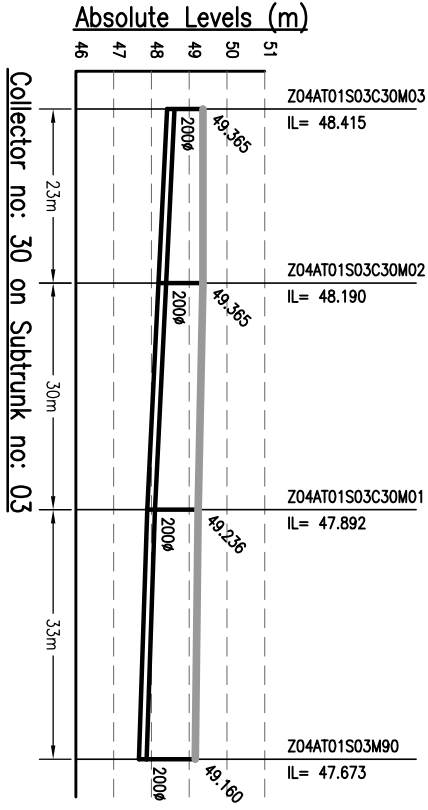
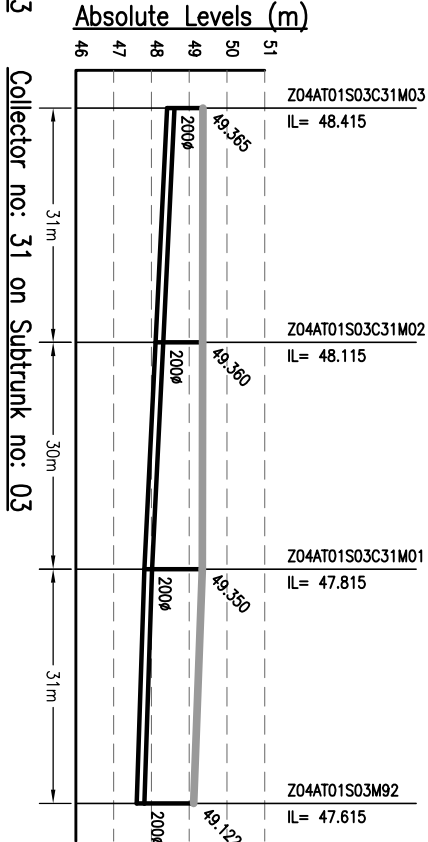
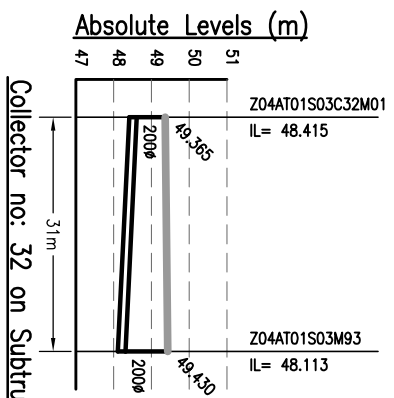
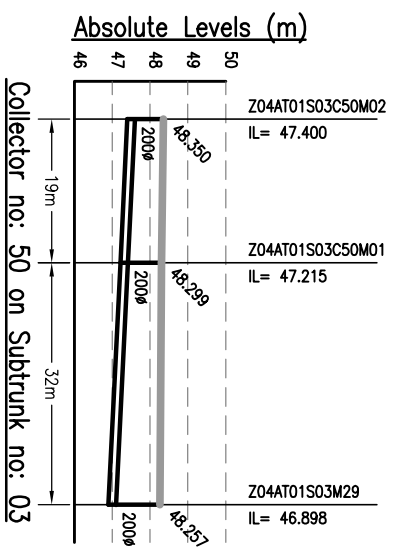
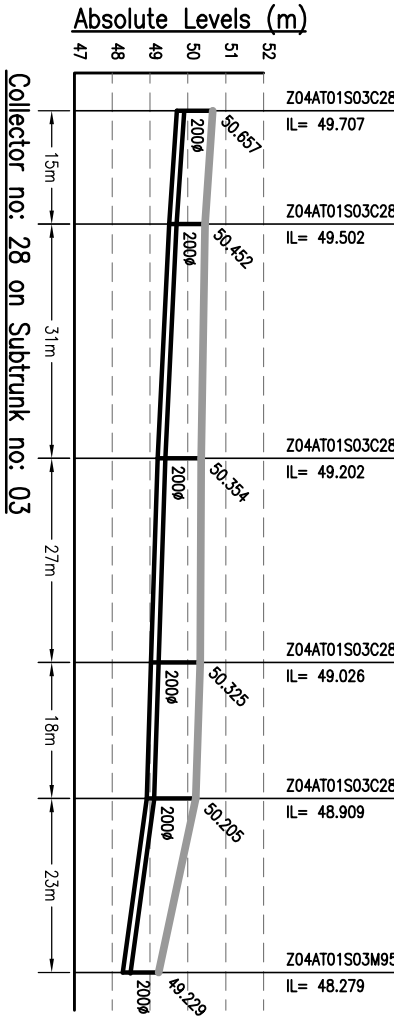
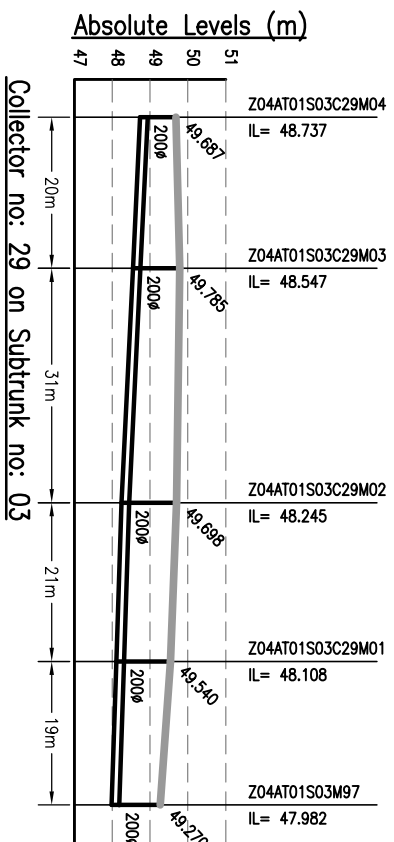
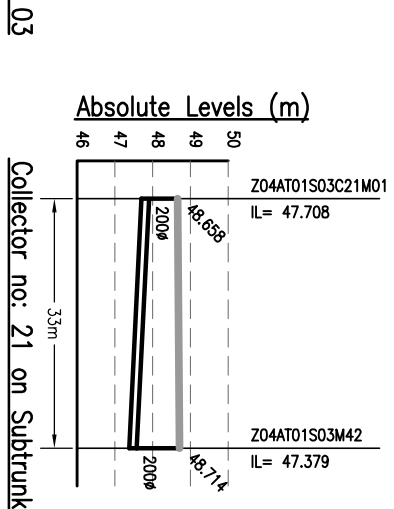
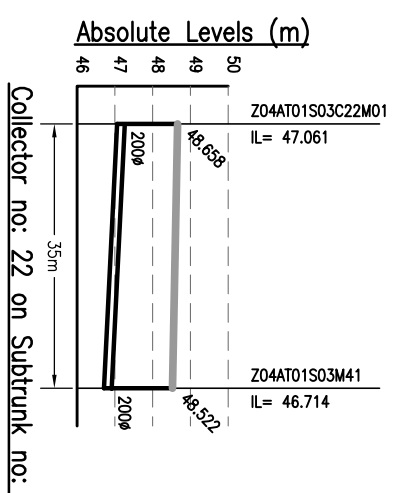
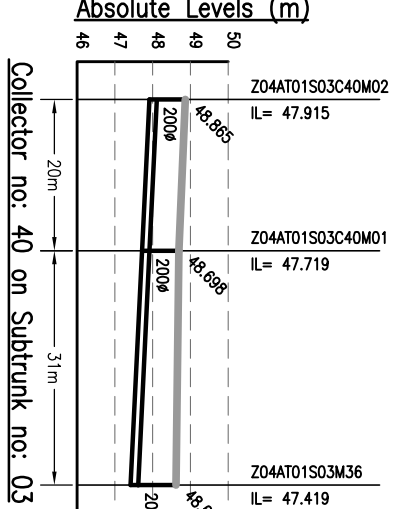
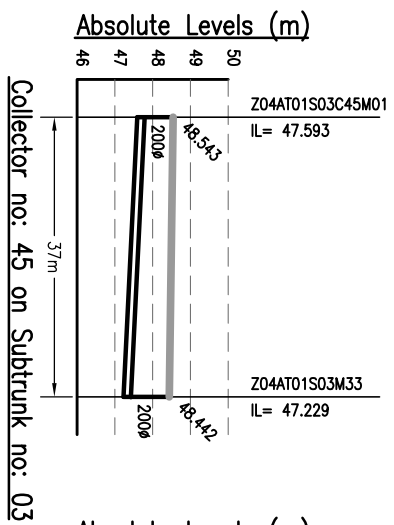
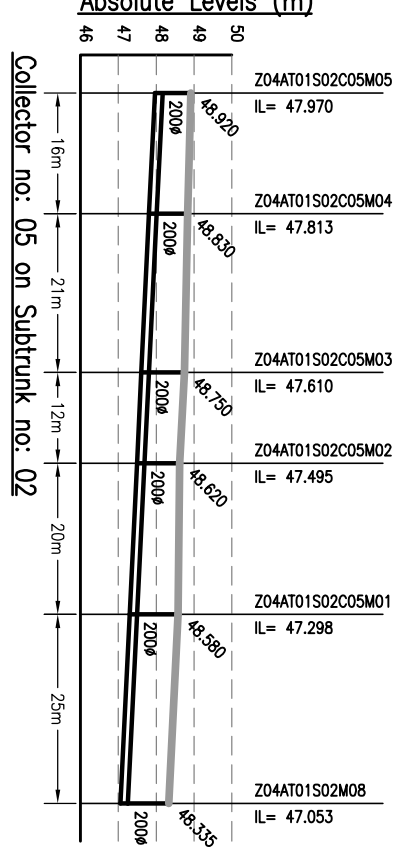
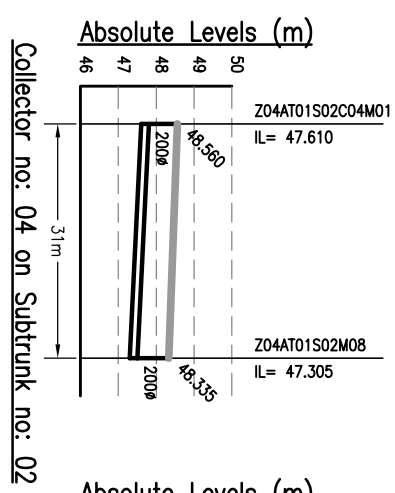
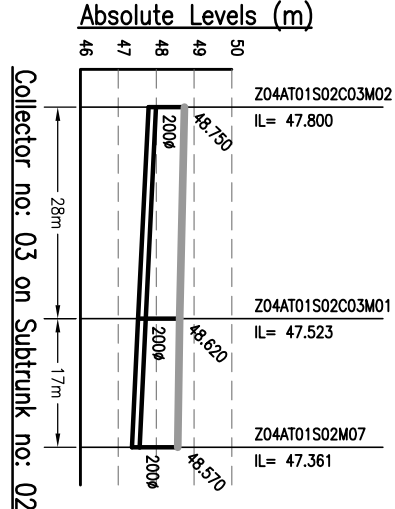
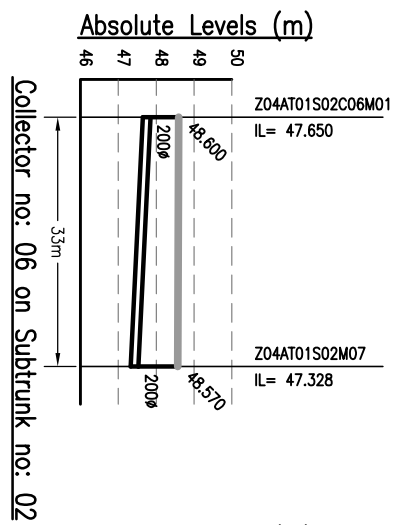
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Drawing Base Reference: **PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.**

JOB NO.	DISCIPLINE	DRAWING NO.	REVISION
1092.01	PH	Z4A-11-C-19	00

DESIGNED: JR MAY 2013
 CHECKED: RP MAY 2013
 APPROVED: CRR MAY 2013

DATE OF FIRST ISSUE: MAY 2013
 SCALE: H-1000, V-200
 SHEET SIZE: A3



NOTES:-

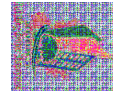
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Drawing Base Reference:
PMC WORK ORDER 3489 DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	SEP'13	AH	ISSUED FOR DPR	RP

AMENDMENTS

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 Website: http://www.meinhardt.com

PROJECT:-
 PREPARATION OF DETAILED PROJECT REPORTS (DPRs) & BID DOCUMENTS;
 TENDERING FOR EXECUTION; CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE PROJECTS OF PATNA UNDER NGRBA

DRAWING TITLE
L-SECTION OF COLLECTOR ZONE-4A, TRUNK-1 (PAHARI STP)
 (PART - 20 OF 21)

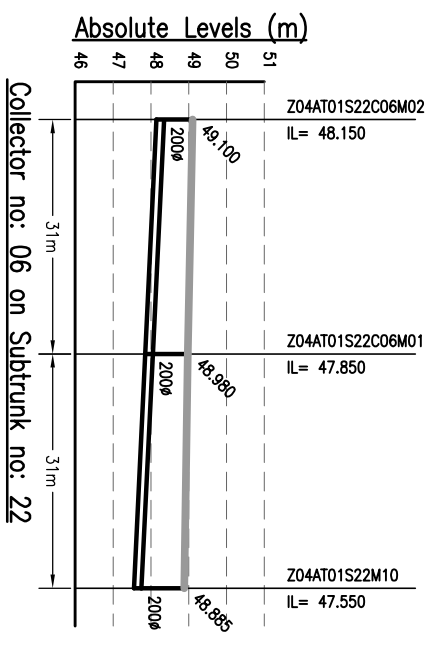
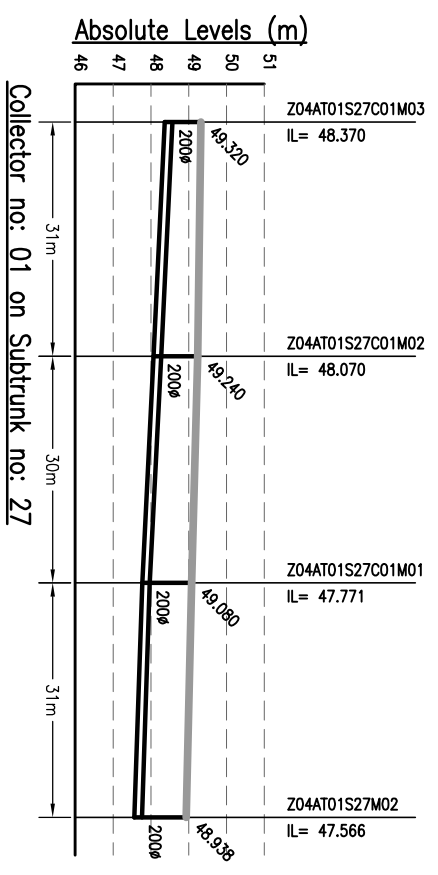
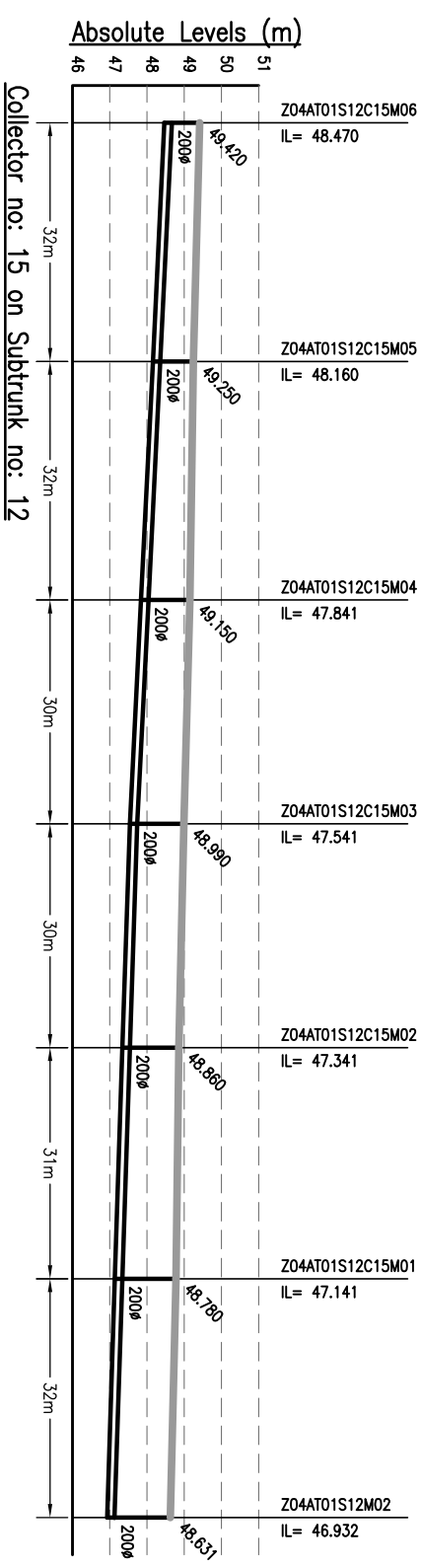
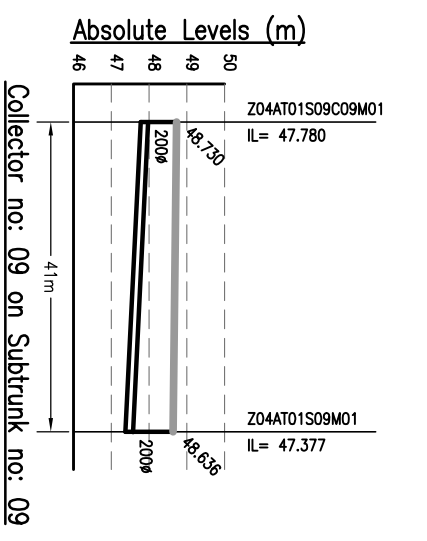
PURPOSE OF ISSUE
 DETAILED PROJECT REPORT (SEWERAGE)

SCALE: H-1000, V-200

DISCIPLINE	DATE OF FIRST ISSUE	SHEET SIZE	NO.
SEWERAGE	SEPTEMBER 2013	A3	33

NO.	DATE	BY	CHKD
1	SEPTEMBER 2013	AH	RP
2	SEPTEMBER 2013	RP	RP
3	SEPTEMBER 2013	CR	RP

JOB NO. 1092.01
DISCIPLINE PH
DRAWING NO. Z4A-T1-C-20
REVISION 00

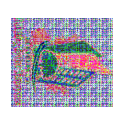


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Drawing Base Reference:
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV/	DATE	NAME	DESCRIPTION	CHKD
00	SEP'13	AH	ISSUED FOR DPR	RP
AMENDMENTS				

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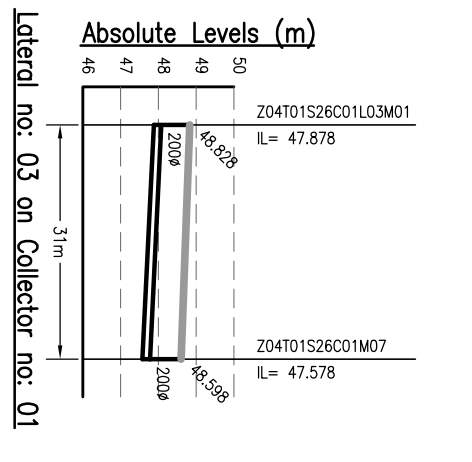
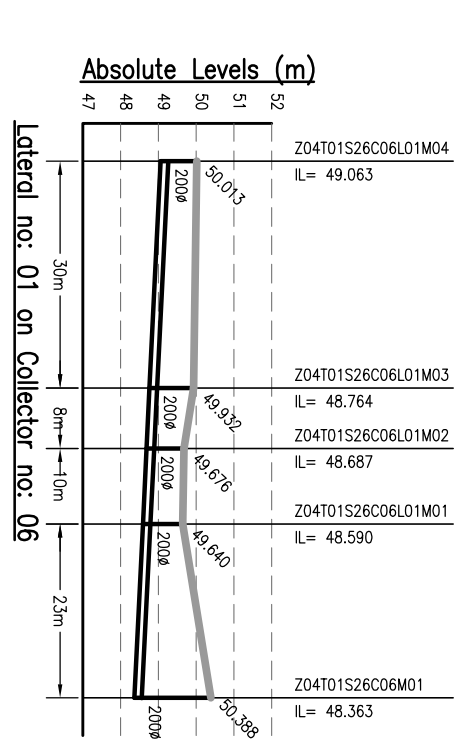
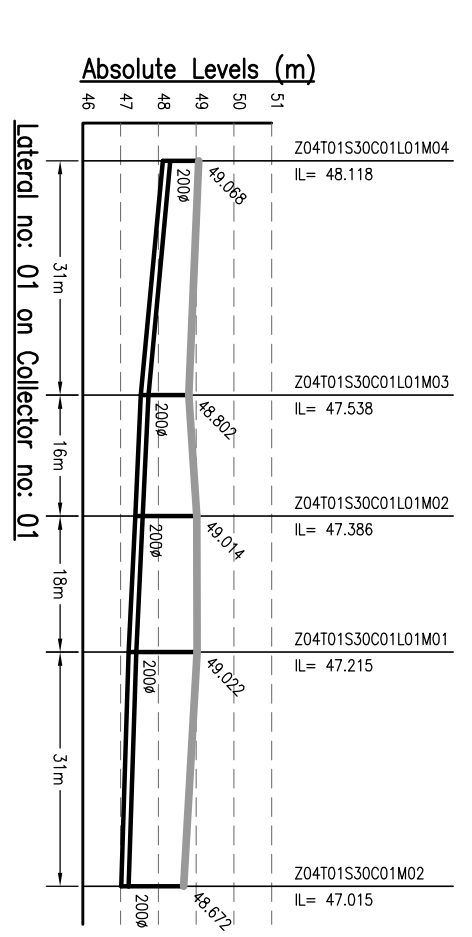
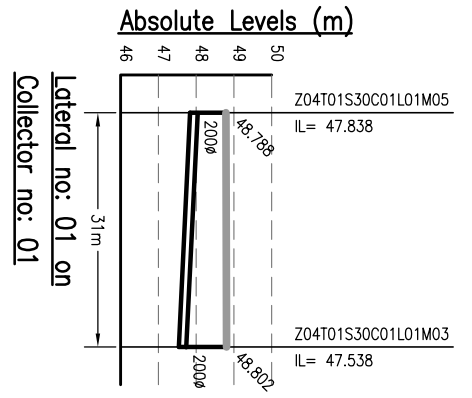
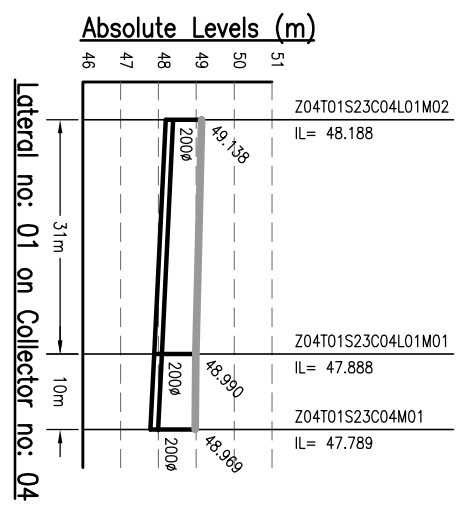
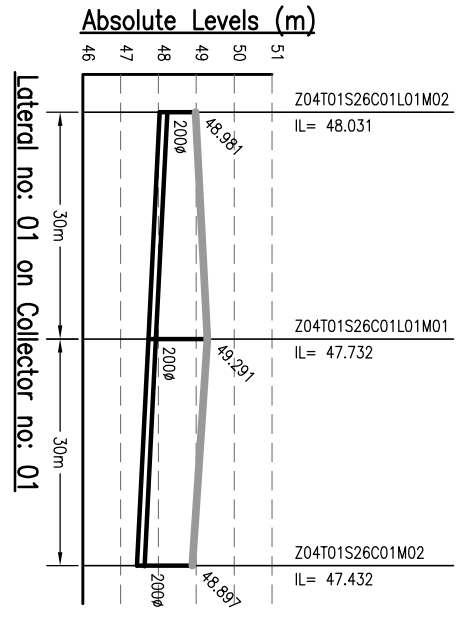
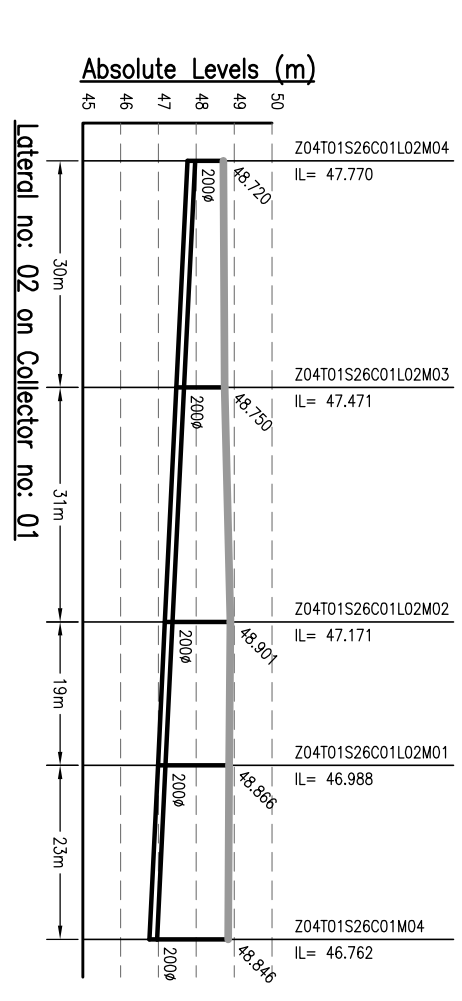
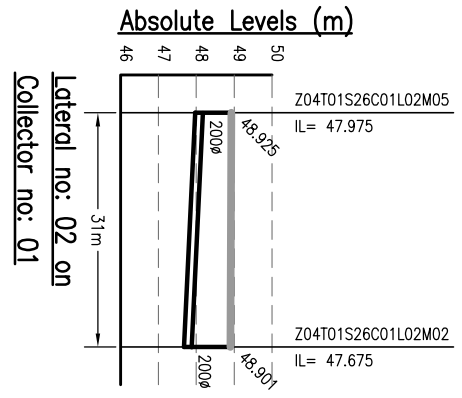
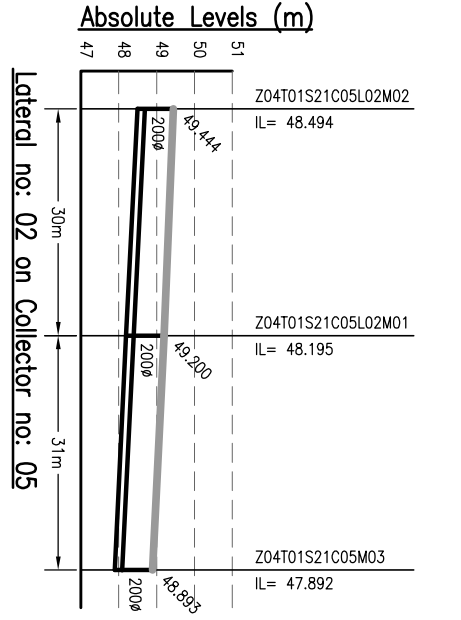
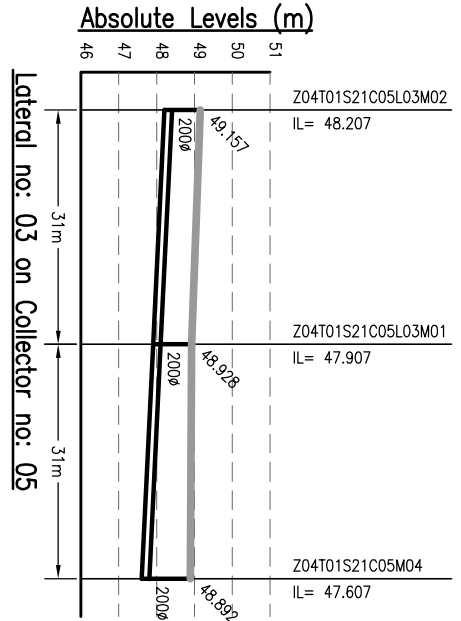
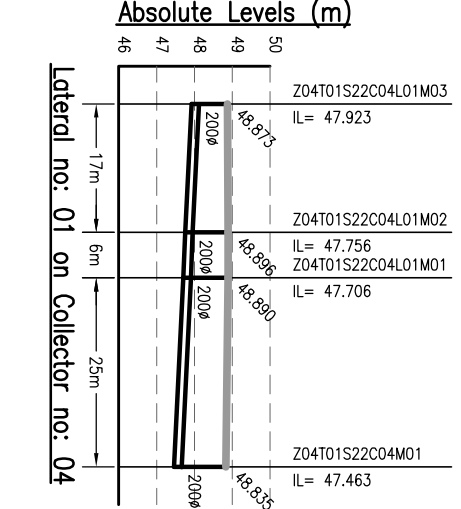
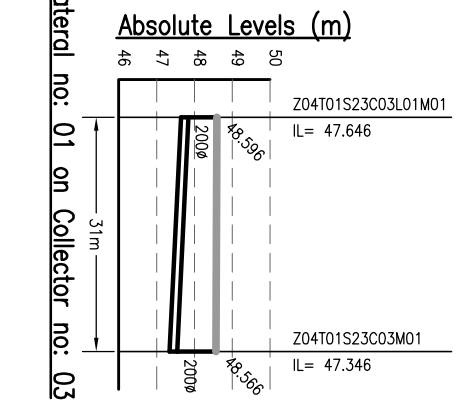
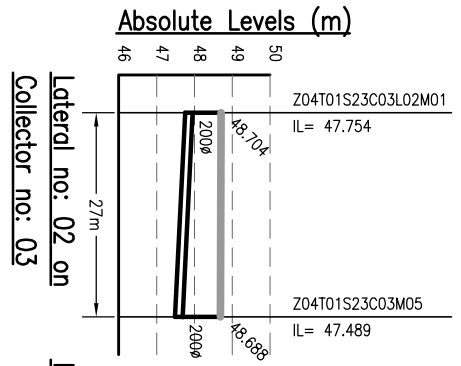
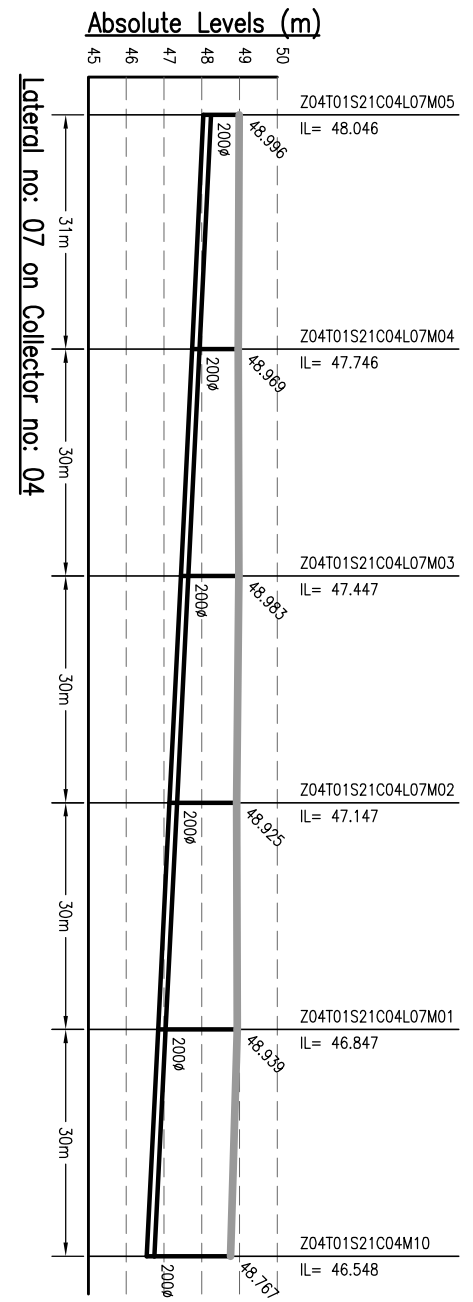
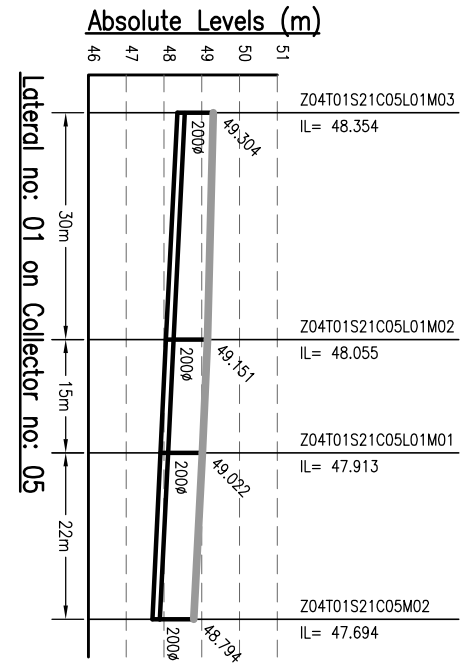
CLIENT:-
 BIHAR
 URBAN INFRASTRUCTURE
 DEVELOPMENT CORPORATION

PROJECT:-
 PREPARATION OF DETAILED
 PROJECT REPORTS (DPRs) & BID
 DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION &
 QUALITY CONTROL OF SEWERAGE
 PROJECTS OF PATNA UNDER NGRBA

CONSULTANT:-
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 www.menhardtdr.com, Email:-info@menhardtdr.com

DRAWING TITLE
SEWERAGE
L-SECTION OF COLLECTOR
ZONE-4A, TRUNK-1 (PAHARI STP)
 (PART - 21 OF 21)

PURPOSE OF ISSUE		SCALE :- H-1000, V-200	
DETAILED PROJECT REPORT (SEWERAGE)		SHEET SIZE :- A3	
BY	DATE OF FIRST ISSUE	BY	DATE OF FIRST ISSUE
AAH	SEPTEMBER 2013	AAH	SEPTEMBER 2013
JR	SEPTEMBER 2013	RP	SEPTEMBER 2013
CR	SEPTEMBER 2013	CR	SEPTEMBER 2013
DISCIPLINE	DRAWING NO.	REVISION	
1092.01	PH Z4A-T1-C-21	00	



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Drawing Base Reference:-
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

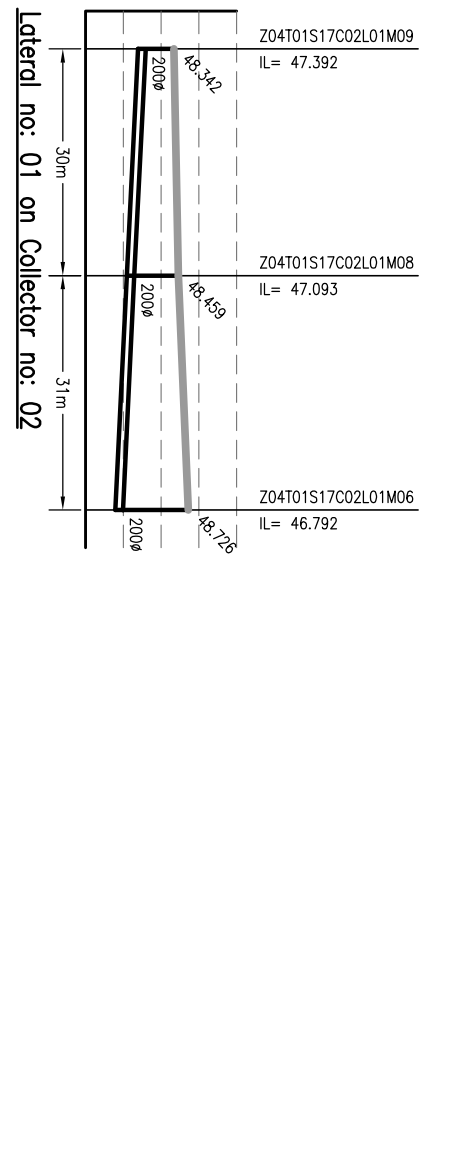
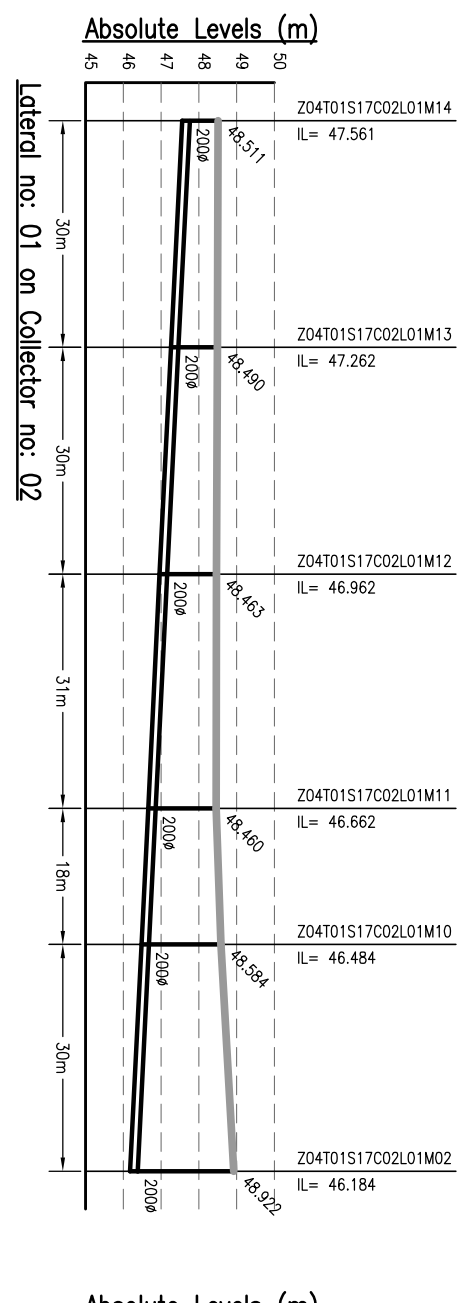
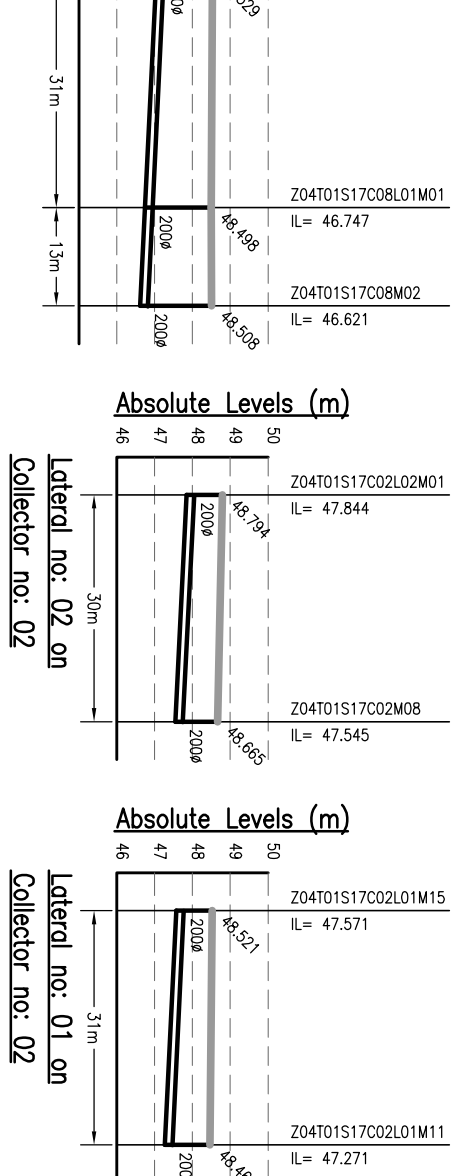
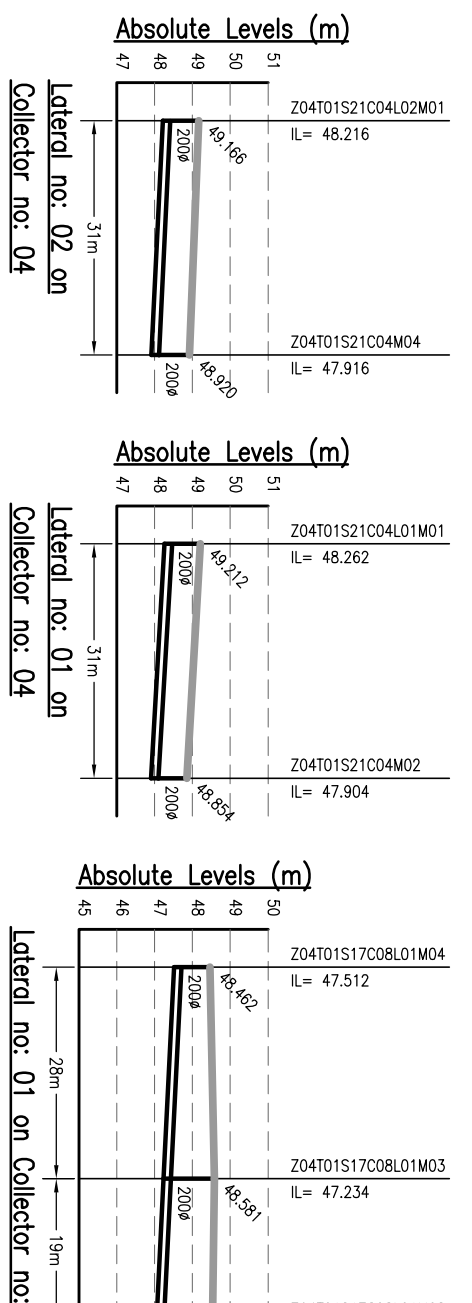
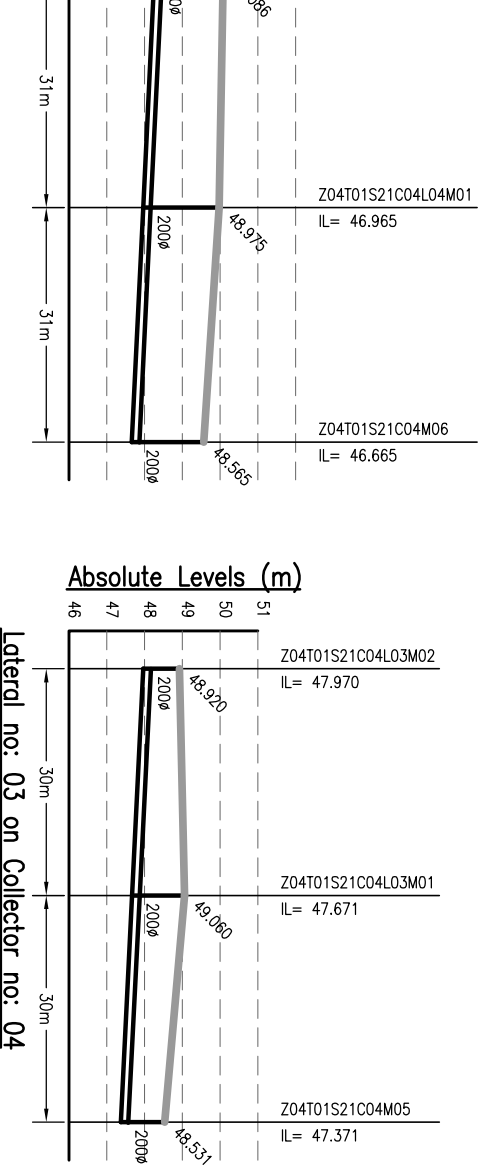
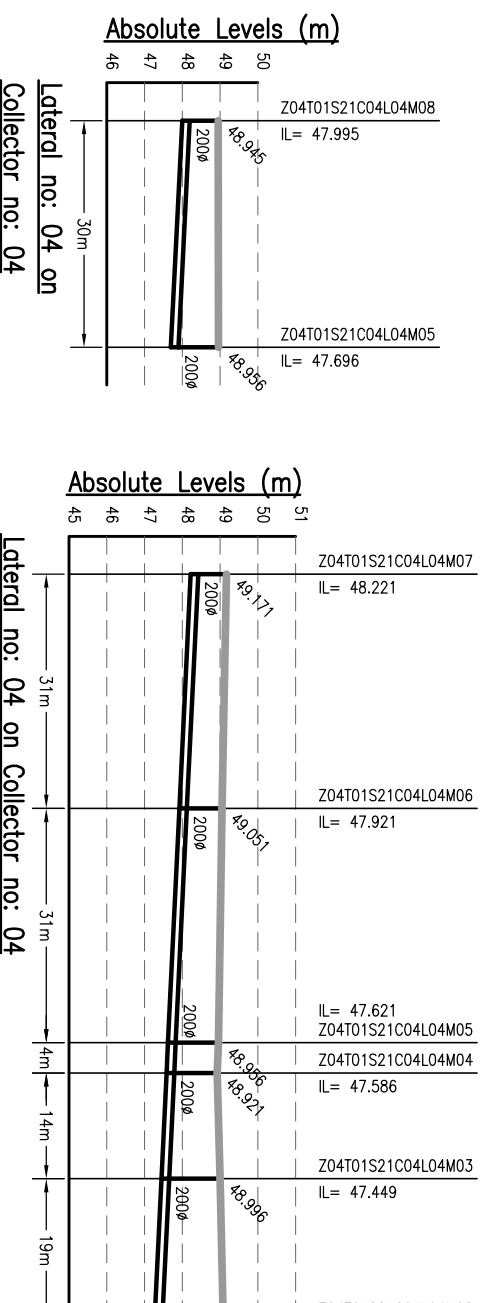
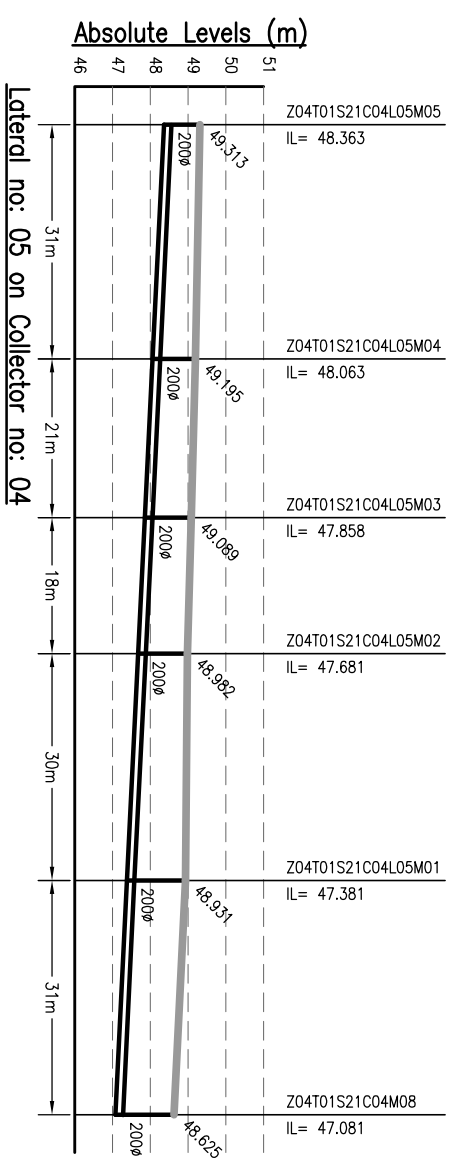
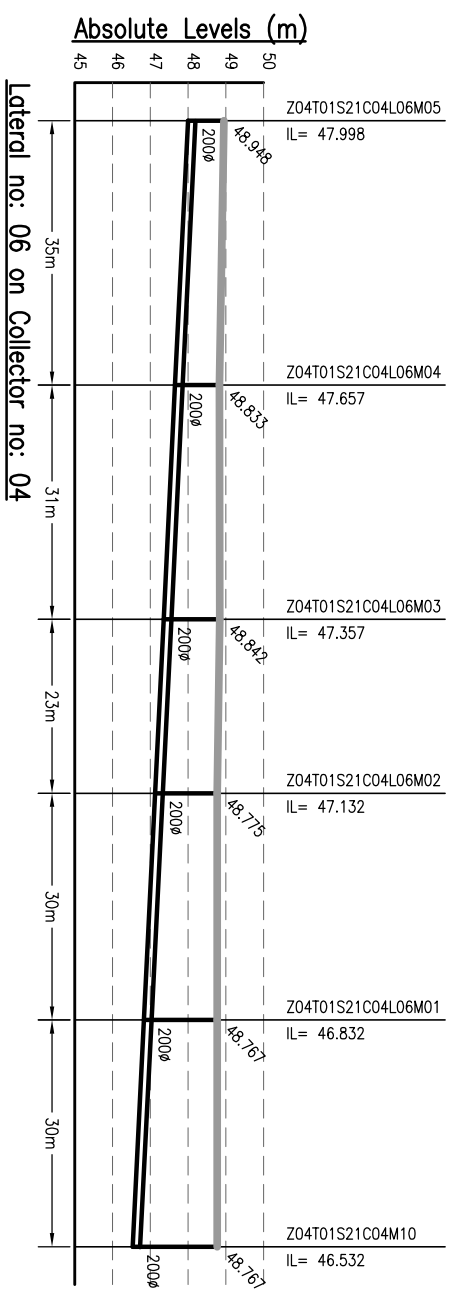
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 Website: http://www.meinhardt.com

PROJECT:-
PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS:
TENDERING FOR EXECUTION, CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

CONSULTANT:-
MEINHARDT
 MEINHARDT (SINGAPORE) PTE. LTD.
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 Ph.:+91 120 2516165, Fax No.:+91 120 2515745
 www.meinhardtdr.com, Email:-info@meinhardtdr.com

DRAWING TITLE	SEWERAGE L-SECTION OF LATERAL ZONE-4A, TRUNK-1 (SPS-B) (PART - 1 OF 18)		
PURPOSE OF ISSUE	SCALE	H-1000, V-200	
DRAFT DETAILED PROJECT REPORT	SHEET SIZE	A3	
DRAWN BY	DATE OF FIRST ISSUE		
DESIGNED BY			
CHECKED BY			
APPROVED BY			
JOB NO.	DISCIPLINE	DRAWING NO.	REVISION
1092.01	PH	Z4A-11-L-01	00



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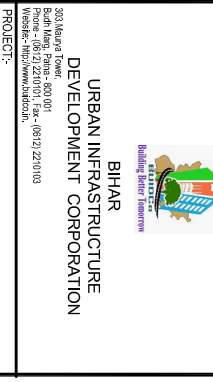
Drawing Base Reference:-
PHC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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CLIENT:-



PROJECT:-
PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS:
TENDERING FOR EXECUTION:
CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

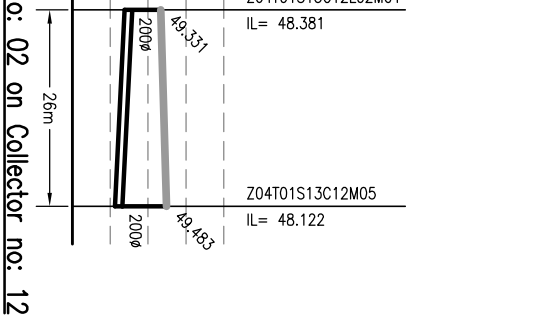
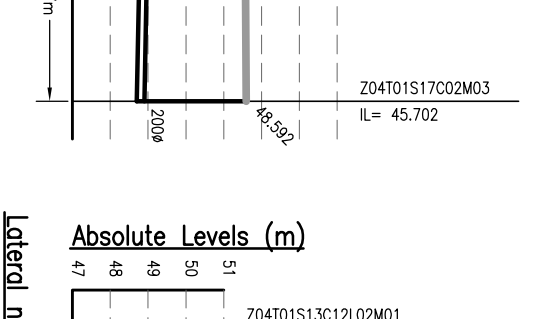
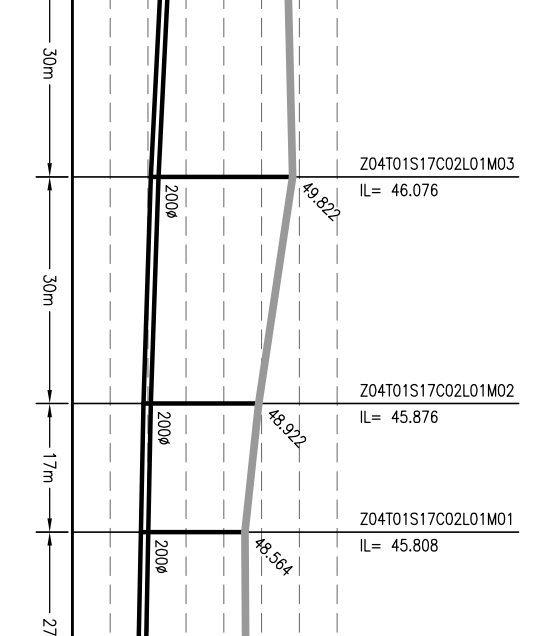
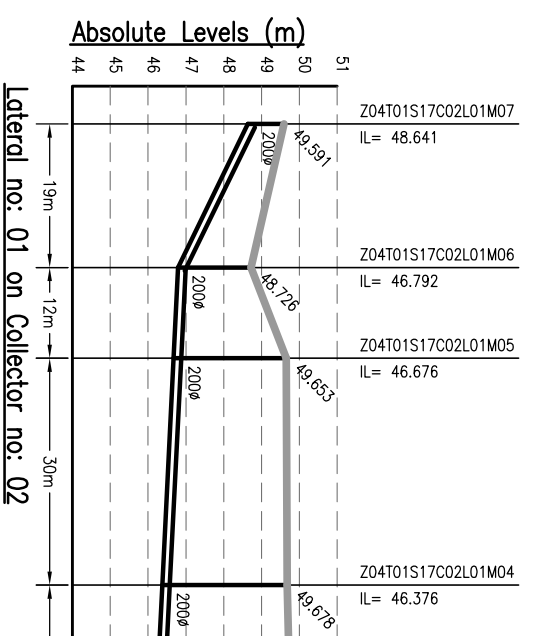
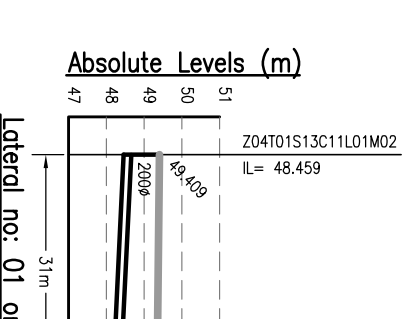
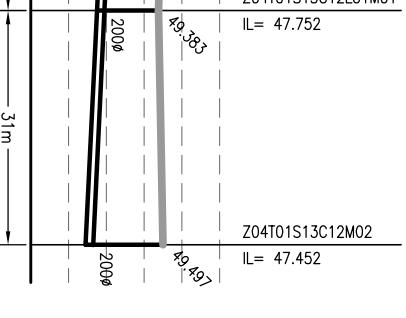
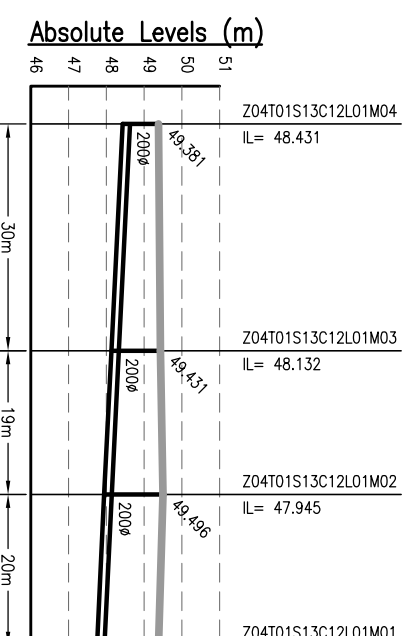
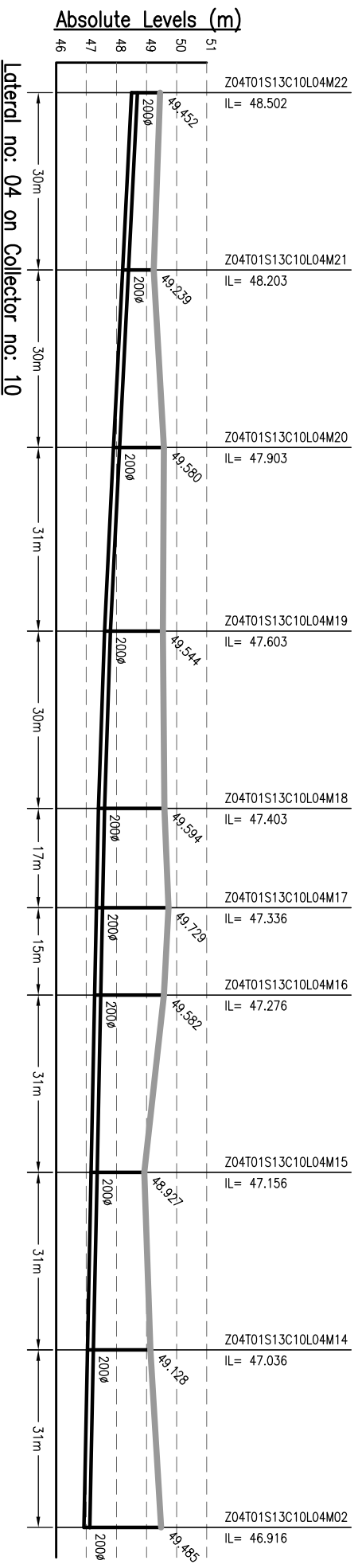
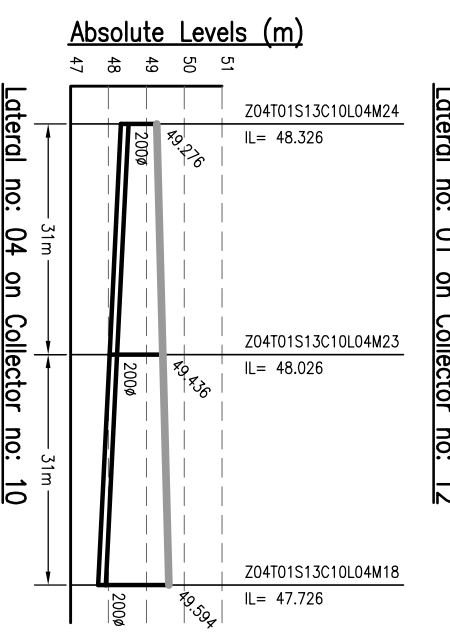
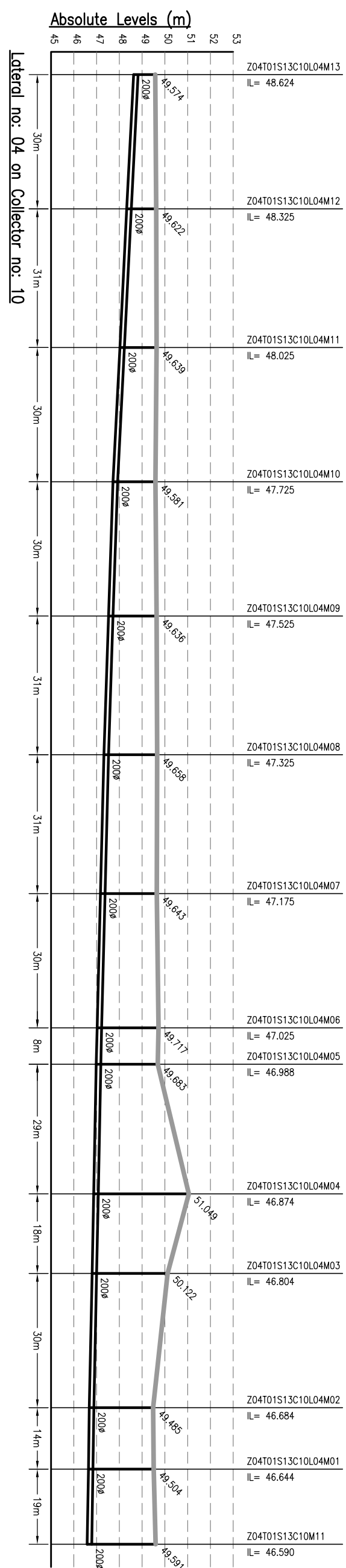
CONSULTANT:-
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DRAWING TITLE
SEWERAGE
L-SECTION OF LATERAL
ZONE-4A, TRUNK-1 (SPS-B)
 (PART - 2 OF 16)

DISCIPLINE	DATE OF FIRST ISSUE	SCALE	SHEET SIZE
PHC	MAY 2013	H-1000, V-200	A3

NO.	DATE	BY	SCALE
1	MAY 2013	SKS	H-1000, V-200
2	MAY 2013	JR	H-1000, V-200
3	MAY 2013	RP	H-1000, V-200
4	MAY 2013	CRR	H-1000, V-200

JOB NO. 1092.01
 PHC
 Z4A-11-L-02
 00



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Drawing Base Reference:-
PWC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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 Website: www.bidc.govt.nic.in

PROJECT:-
 PREPARATION OF DETAILED PROJECT REPORTS (IDPR) & BID DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

CONSULTANT:-

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DRAWING TITLE
 SEWERAGE
 L-SECTION OF LATERAL
 ZONE-4A, TRUNK-1 (SPS-B)
 (PART - 3 OF 18)

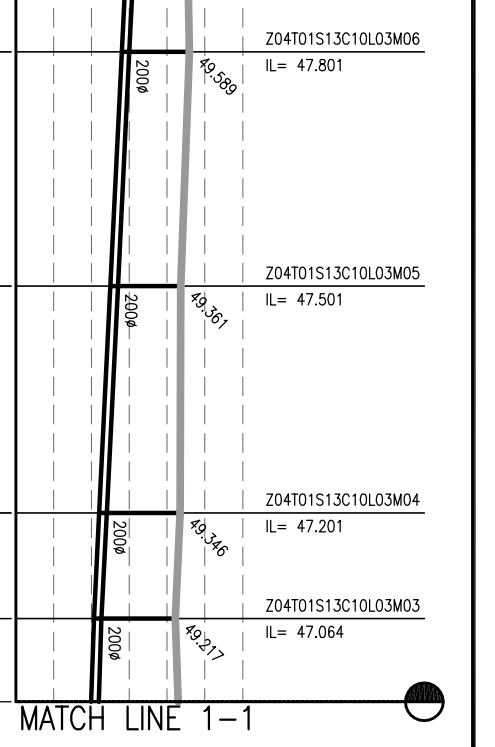
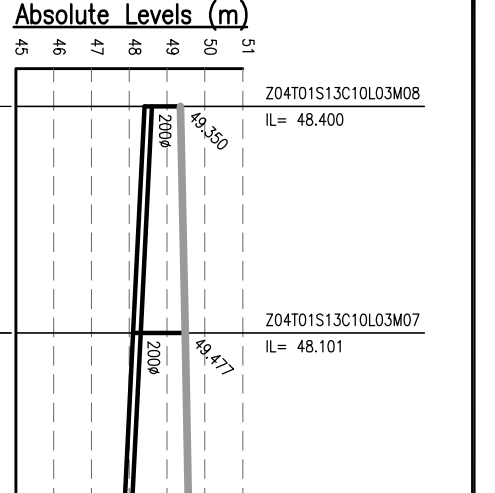
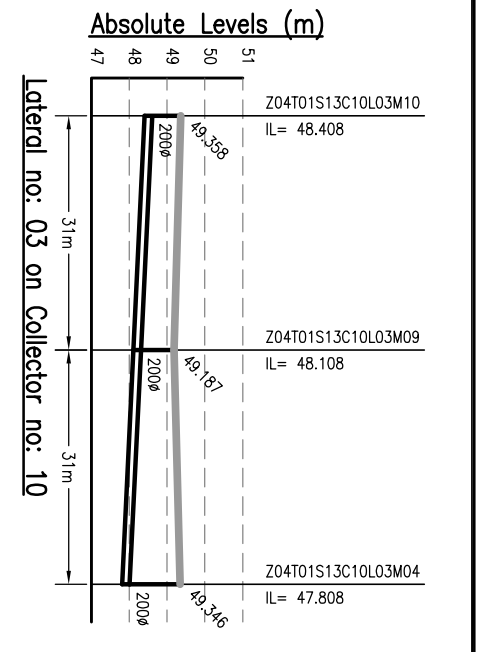
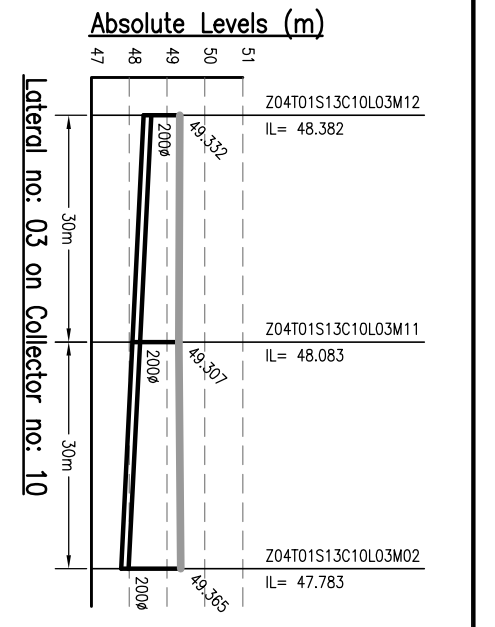
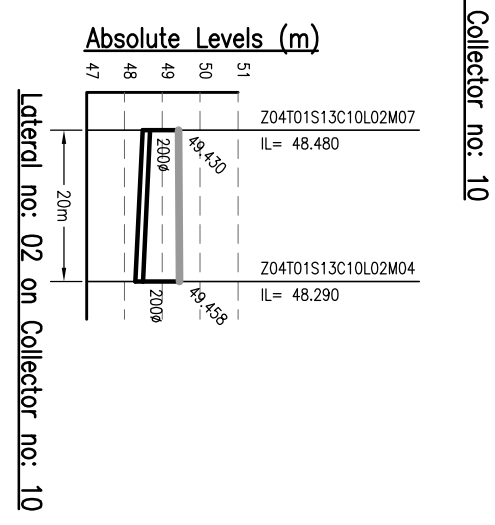
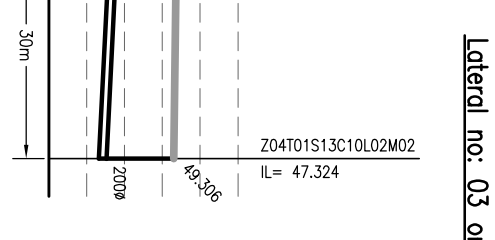
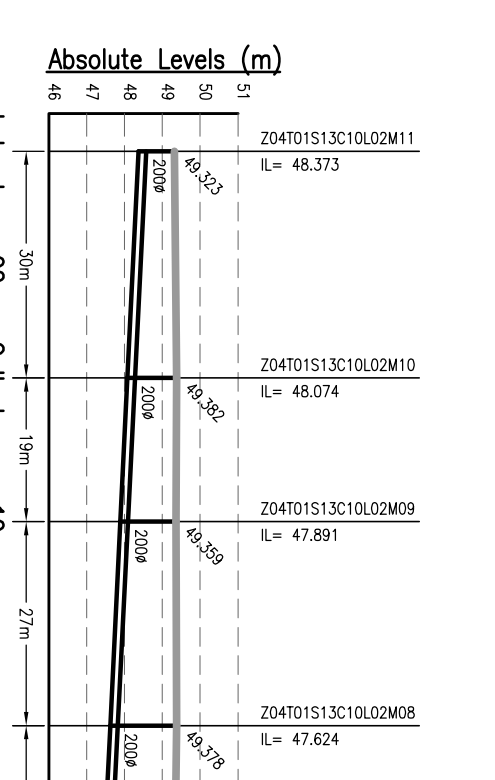
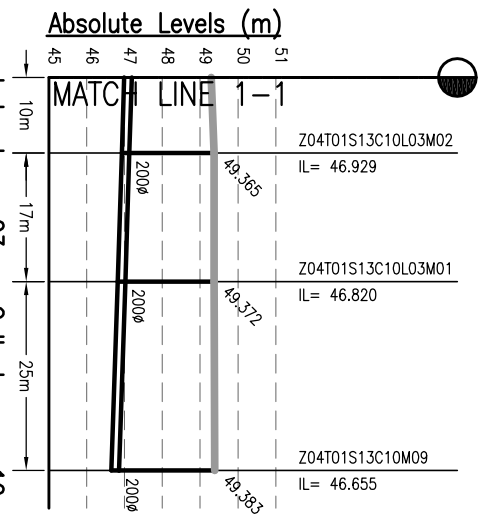
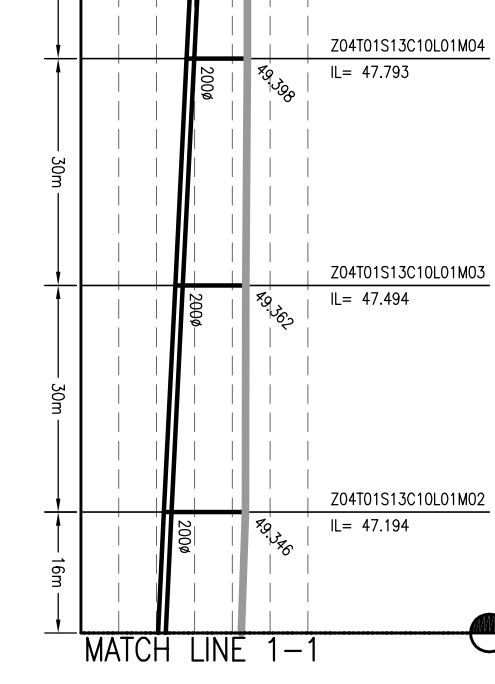
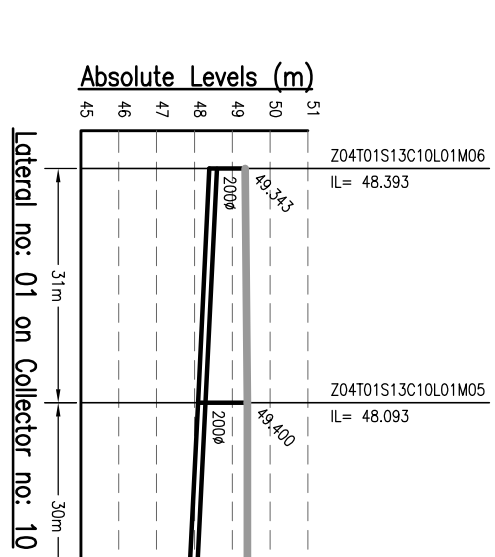
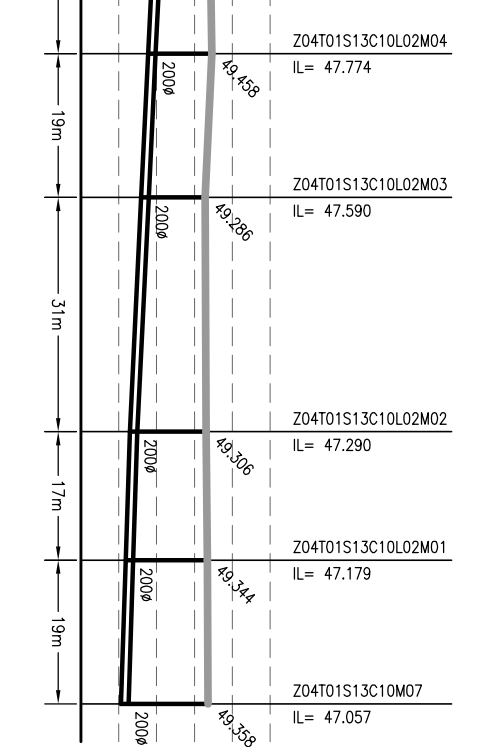
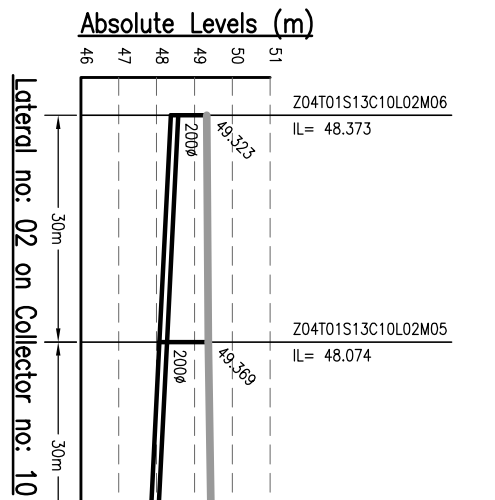
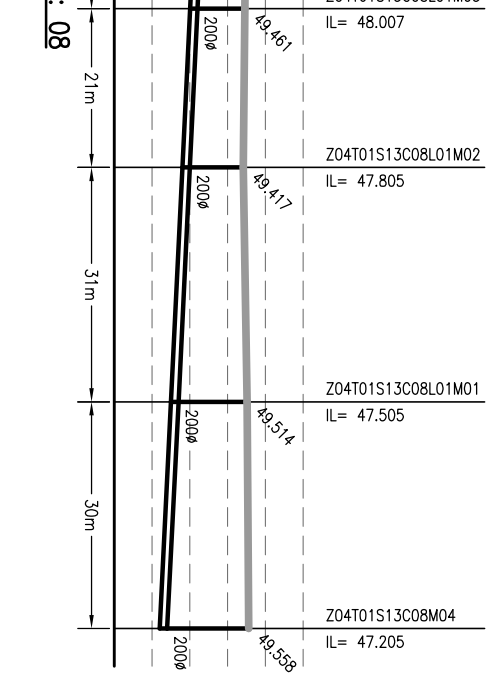
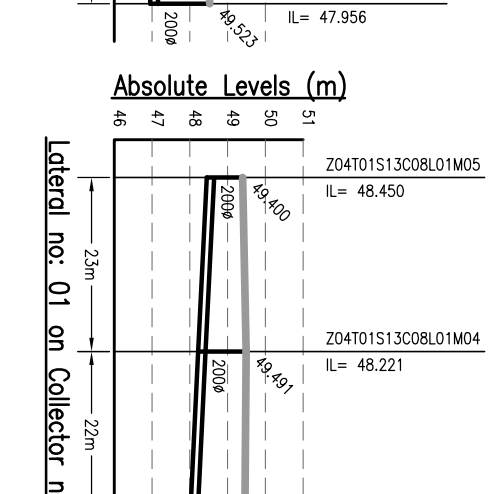
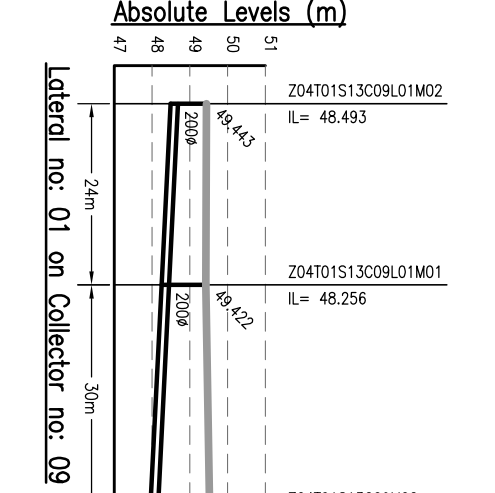
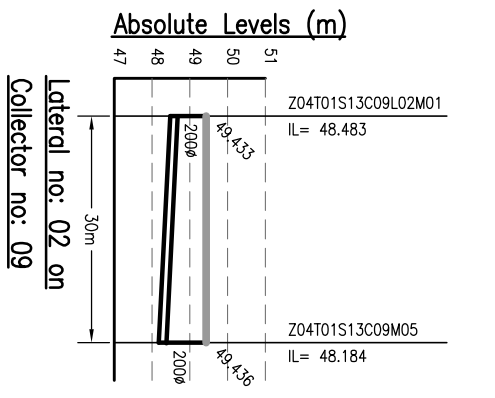
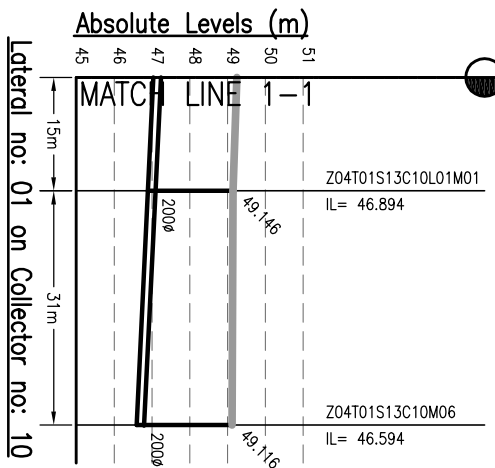
DESIGNED	BY	SCALE	SHEET SIZE
SKS	JR	H-1000, V-200	A3

CHECKED	DATE OF FIRST ISSUE	DISCIPLINE	DRAWING NO.	REVISION
RP	MAY 2013	CRR	Z4A-11-L-03	00

PURPOSE OF ISSUE
 DRAFT DETAIL PROJECT REPORT

DATE OF FIRST ISSUE
 MAY 2013

JOB NO.
 1092.01



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Drawing Base Reference:-
PWC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SNS	DRAFT DPR SUBMISSION	RP

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PROJECT:-
 PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

CONSULTANT:-

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DRAWING TITLE
 SEWERAGE
 L-SECTION OF LATERAL
 ZONE-4A, TRUNK-1 (SPS-B)
 (PART - 4 OF 18)

PURPOSE OF ISSUE
 DRAFT DETAILED PROJECT REPORT

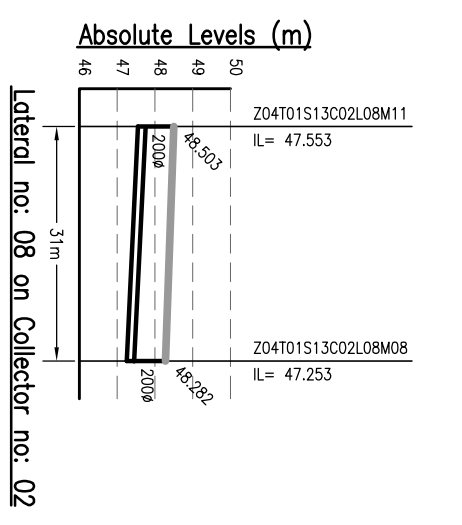
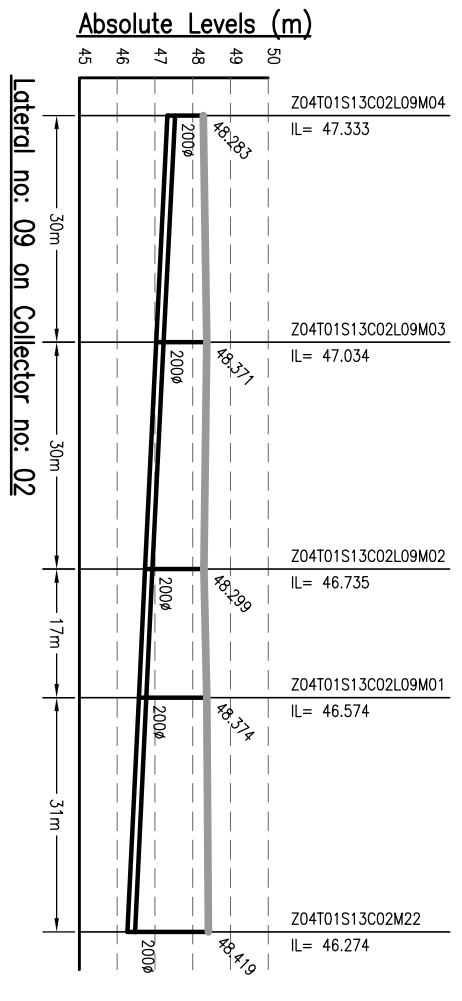
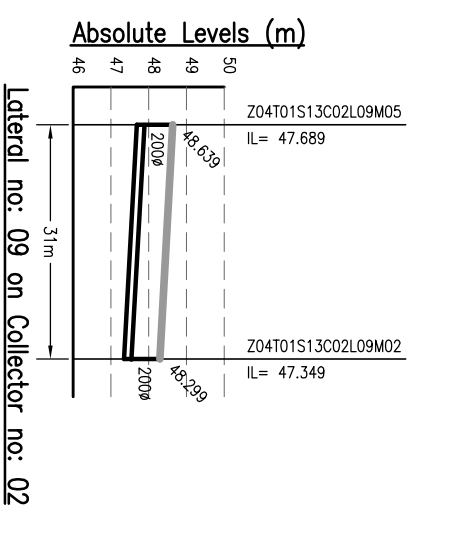
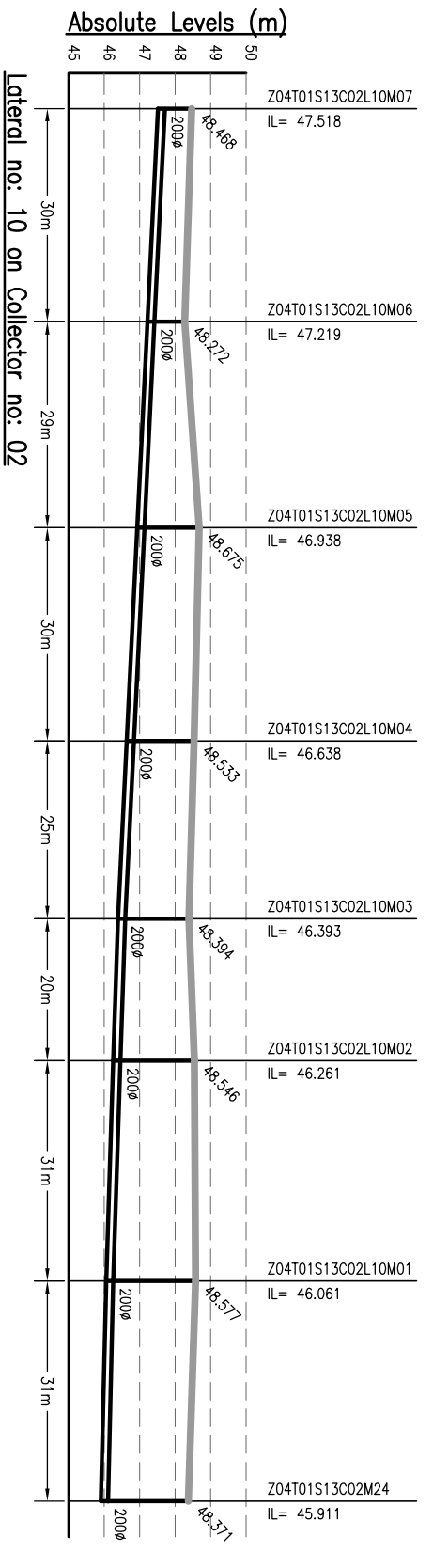
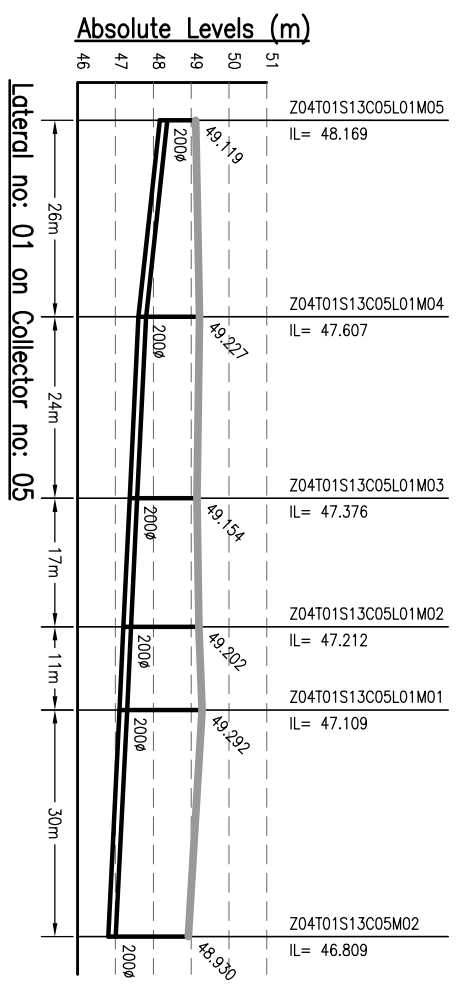
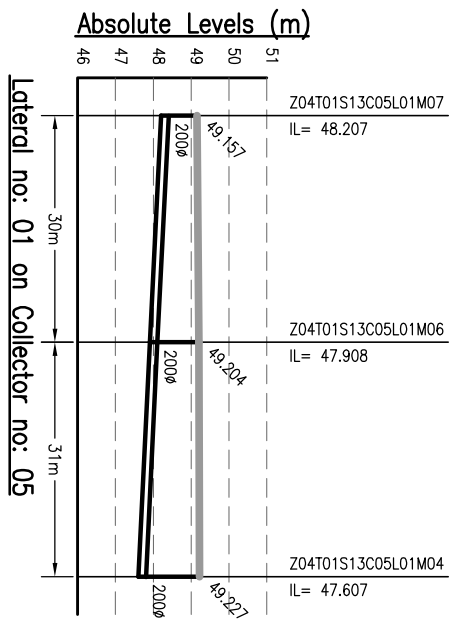
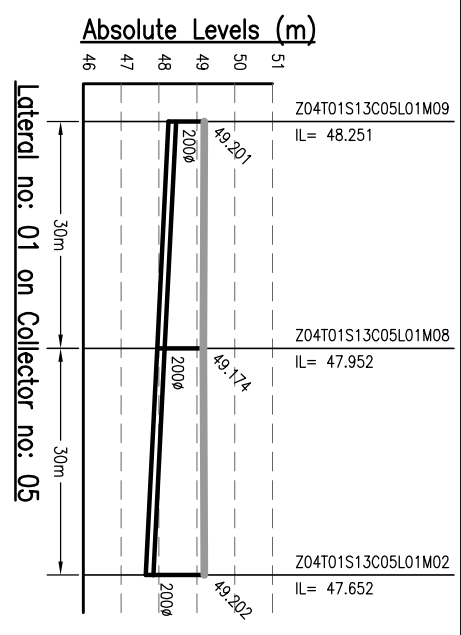
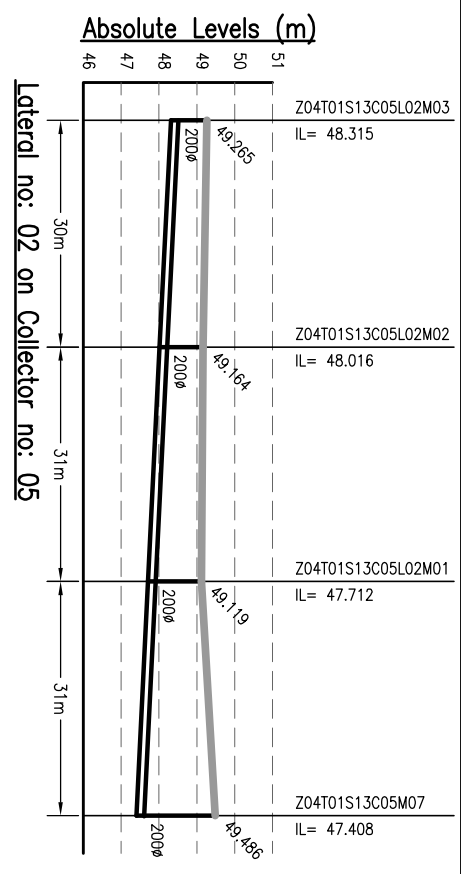
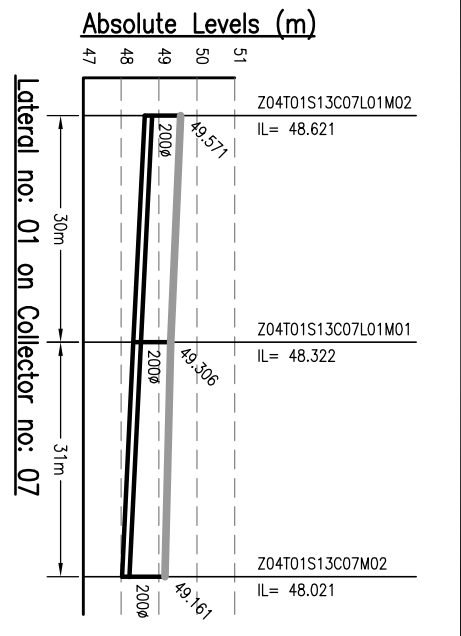
SCALE : H-1000, V-200

SHEET SIZE : A3

NO.	DATE OF FIRST ISSUE	BY	SCALE
1	MAY 2013	SNS	H-1000, V-200

NO.	DATE	BY	REVISION
1	MAY 2013	JR	DESIGNED
2	MAY 2013	RP	CHECKED
3	MAY 2013	CR	APPROVED

JOB NO.	DISCIPLINE	DRAWING NO.	REVISION
1092.01	PH	Z4A-11-L-04	00



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Drawing Base Reference:
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP

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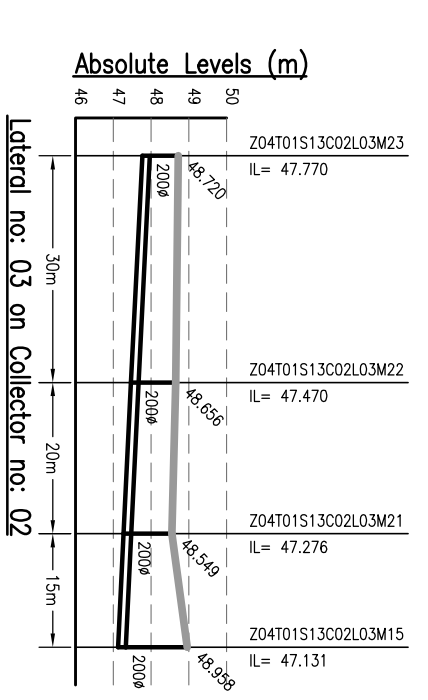
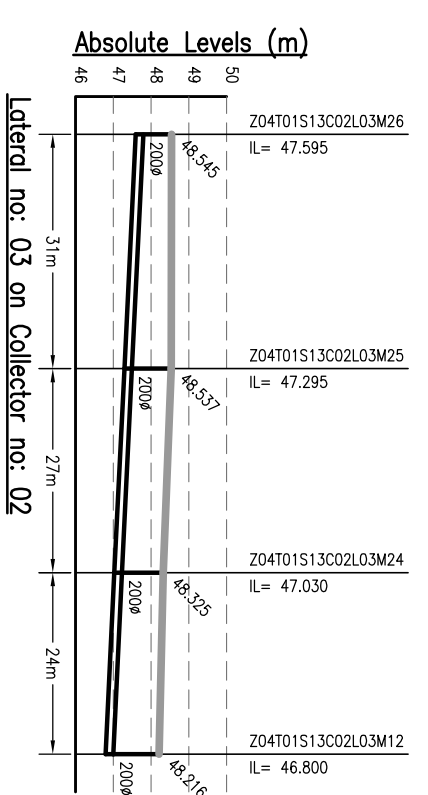
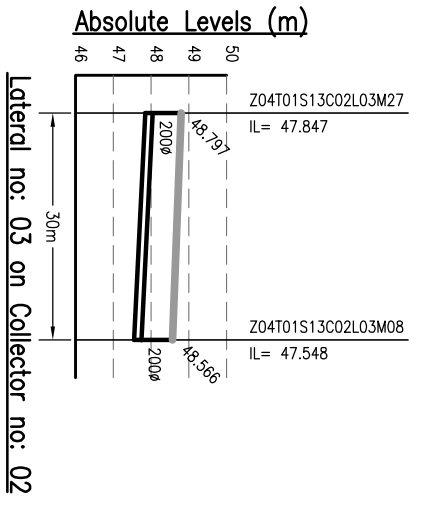
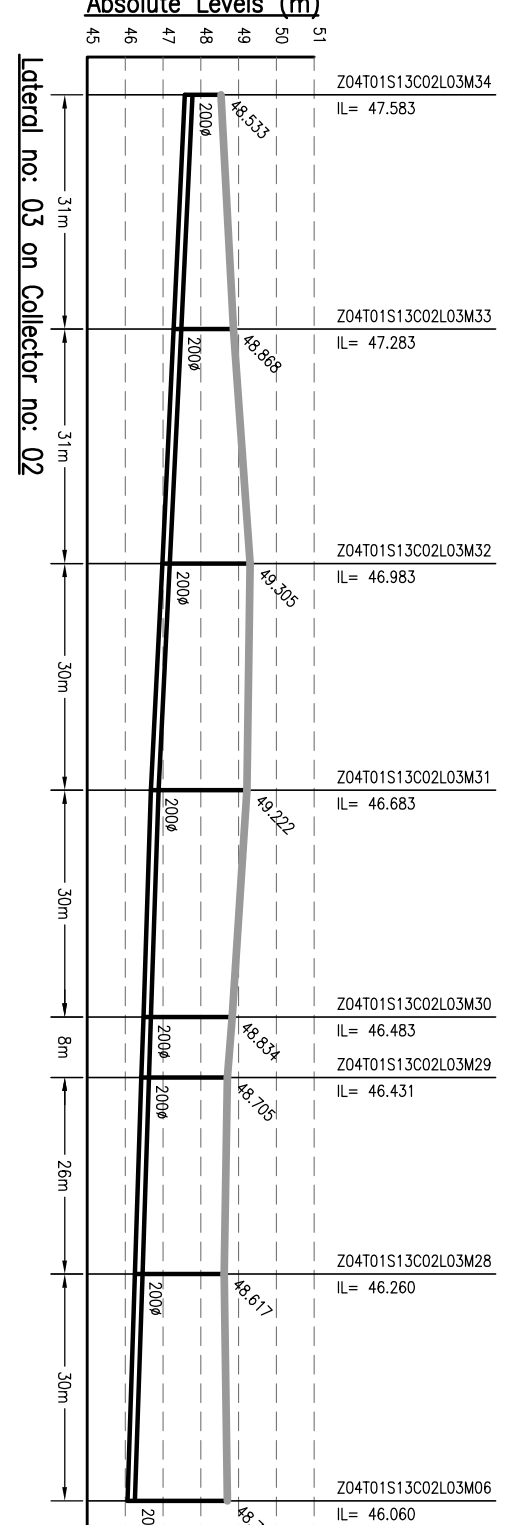
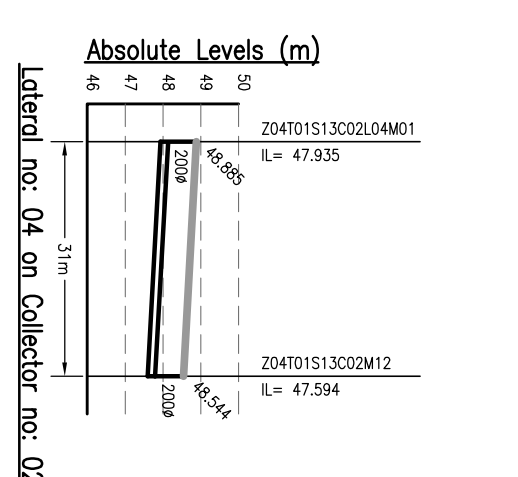
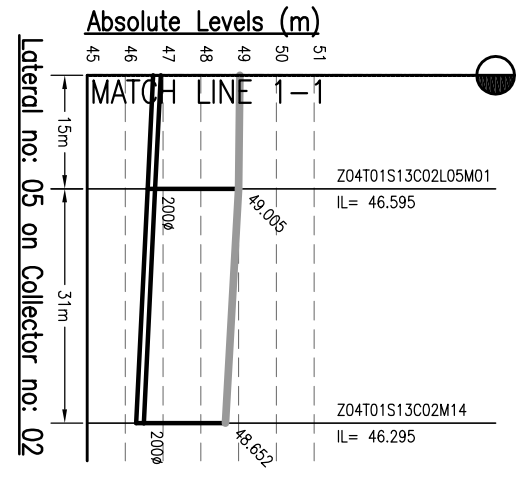
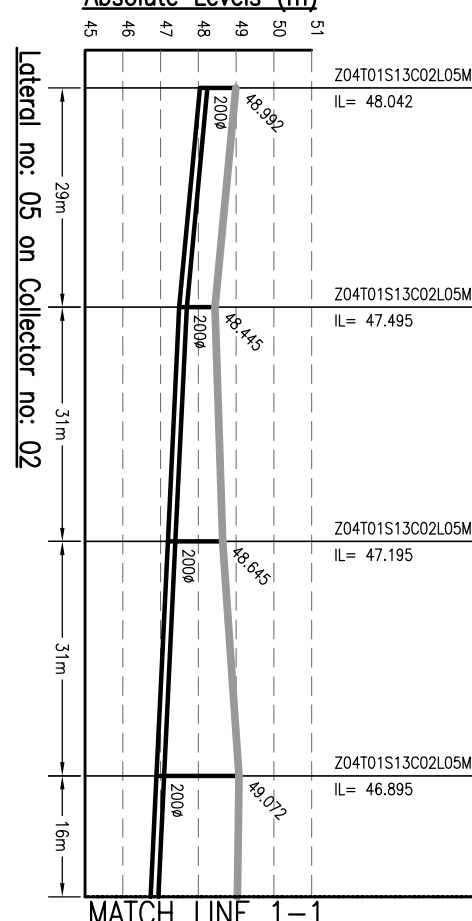
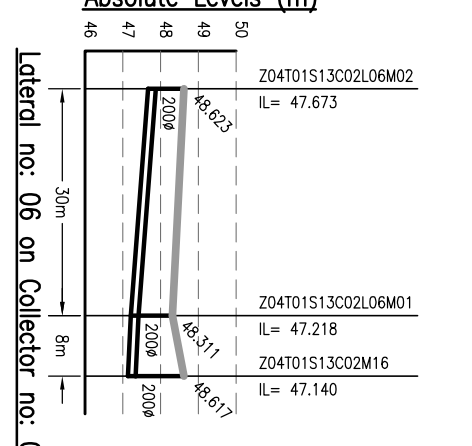
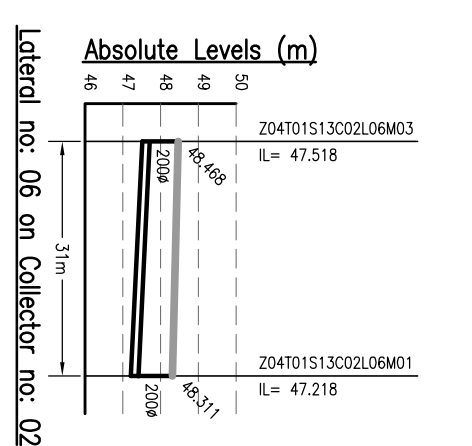
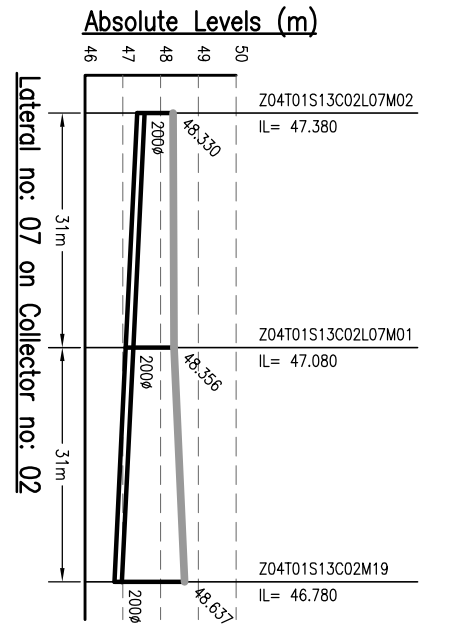
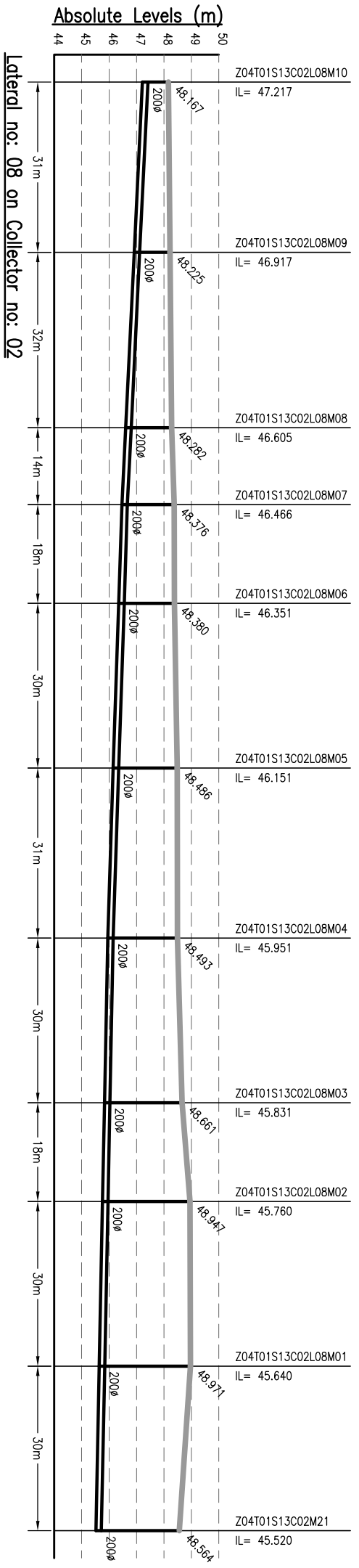


BIHAR
 URBAN INFRASTRUCTURE
 DEVELOPMENT CORPORATION

PROJECT:-
 PREPARATION OF DETAILED
 PROJECT REPORTS (DPRS) & BID
 DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION &
 QUALITY CONTROL OF SEWERAGE &
 DRAINAGE PROJECTS OF PATNA
 UNDER JNNURM

CONSULTANT:-
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DISCIPLINE	NO.	DATE	REVISION
PH	Z4A-11-L-05	MAY 2013	00



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Drawing Base Reference:-
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REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP

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 Website: www.mh.com.sg

PROJECT:-
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 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

CONSULTANT:-

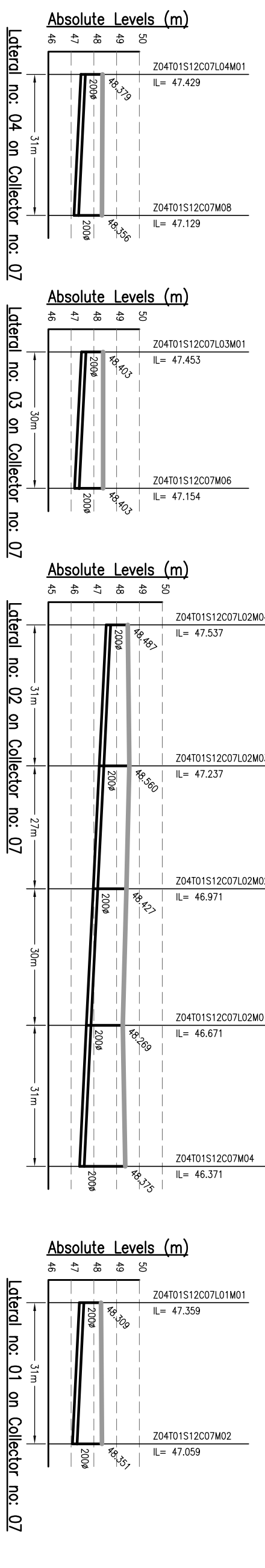
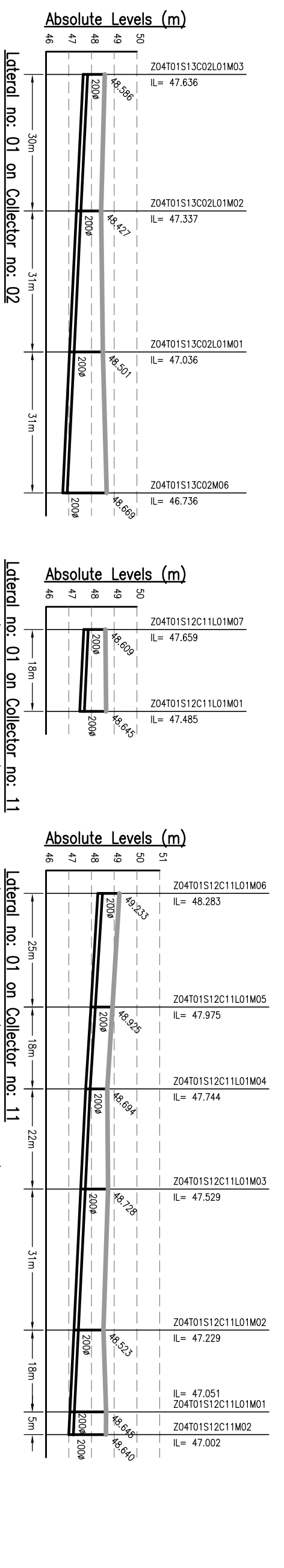
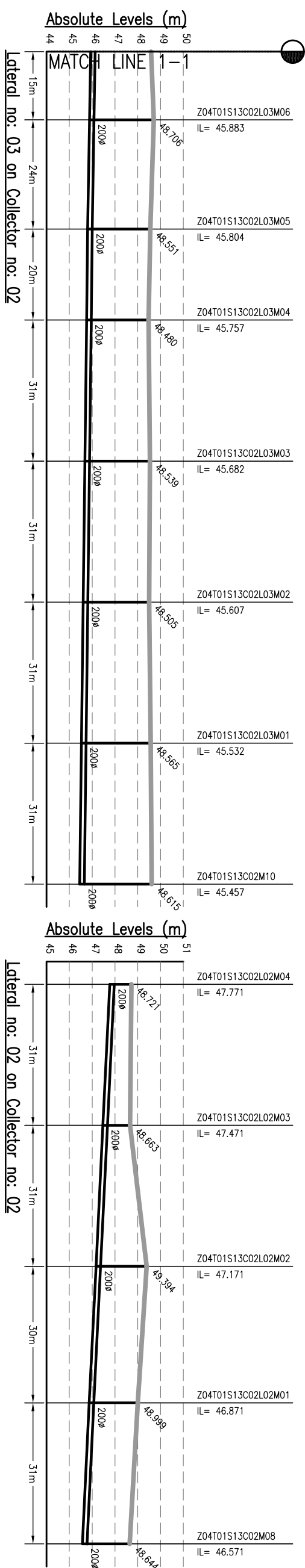
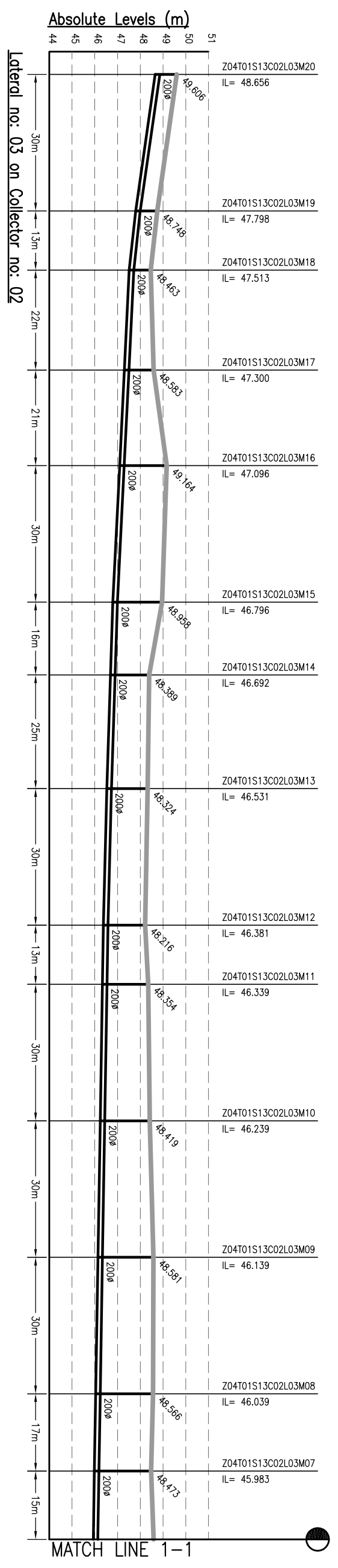
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DRAWING TITLE
 SEWERAGE
 L-SECTION OF LATERAL
 ZONE-4A, TRUNK-1 (SPS-B)
 (PART - 6 OF 18)

DISCIPLINE	DATE OF FIRST ISSUE	SCALE
PH	MAY 2013	H=1000, V=200

APPROVED	DATE	BY
PH	MAY 2013	SKS
PH	MAY 2013	JR
PH	MAY 2013	RP

JOB NO.	DISCIPLINE	DRAWING NO.	REVISION
1092.01	PH	Z4A-11-L-06	00



NOTES:-

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Drawing Base Reference:-
PWC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SNS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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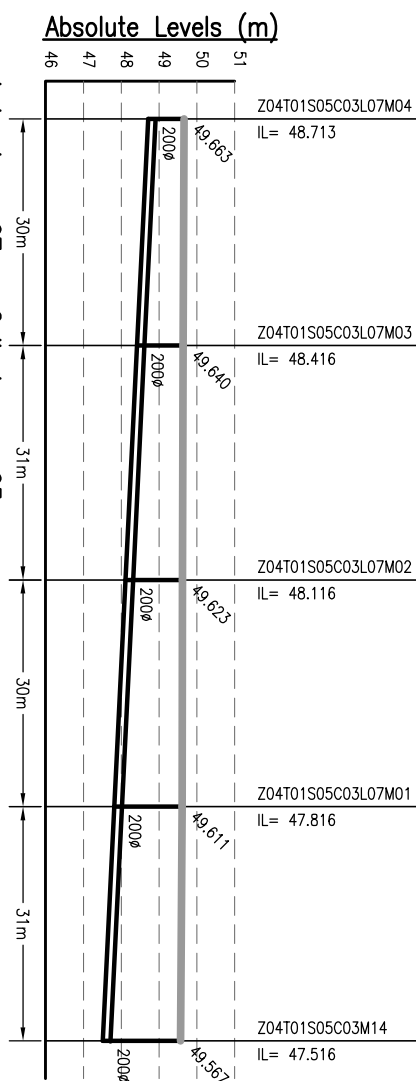
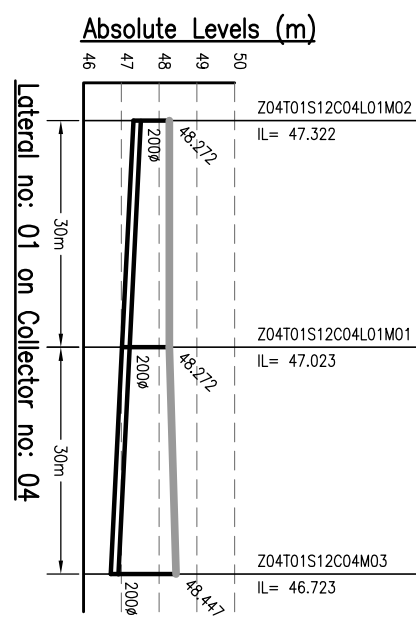
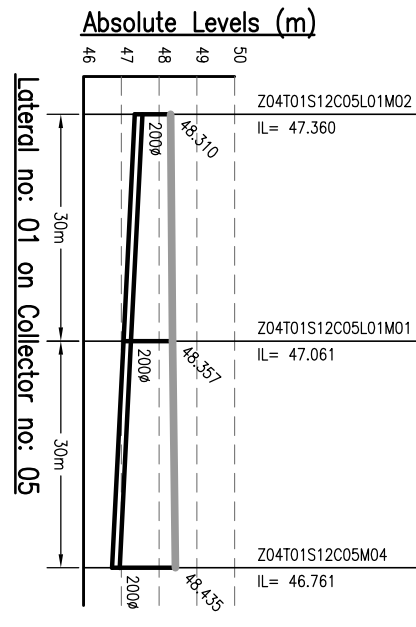
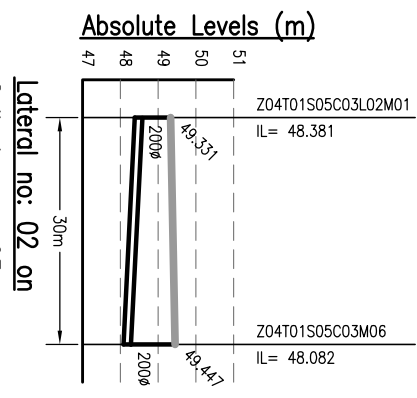
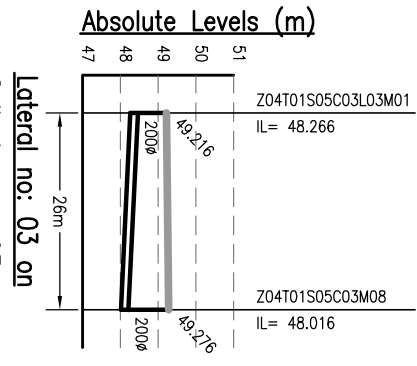
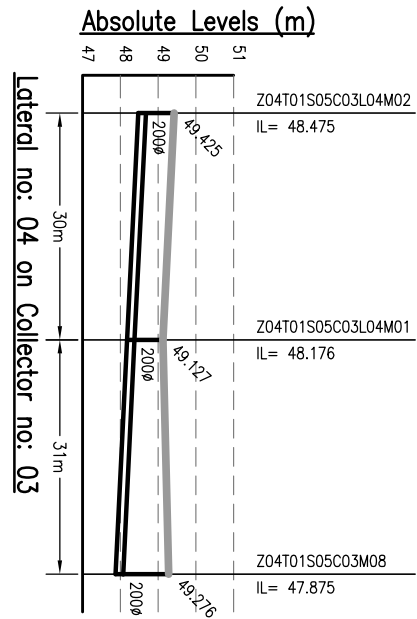
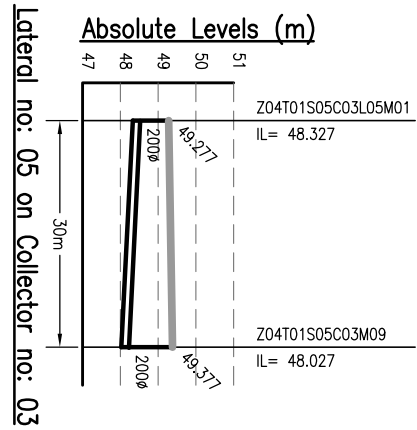
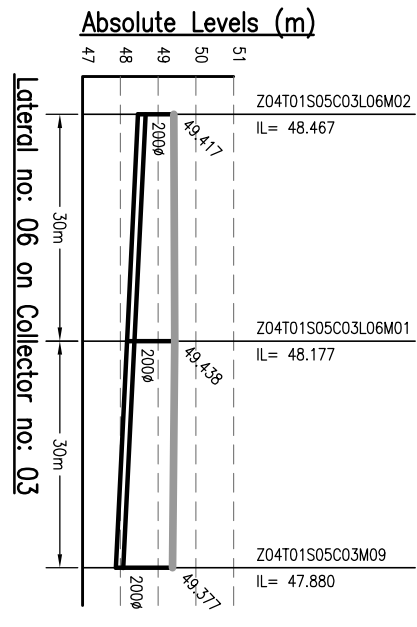
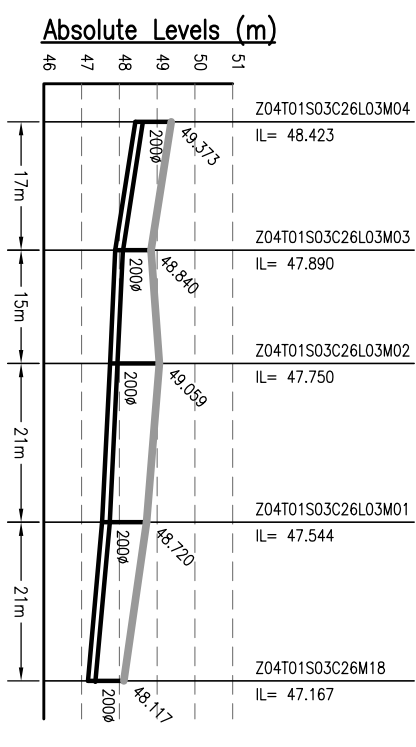
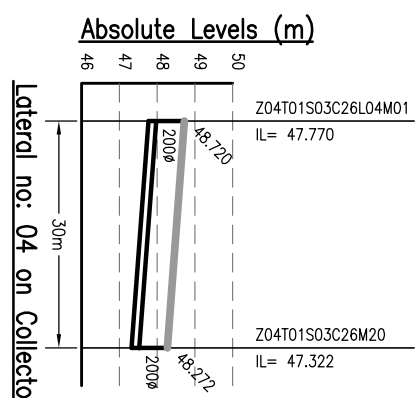
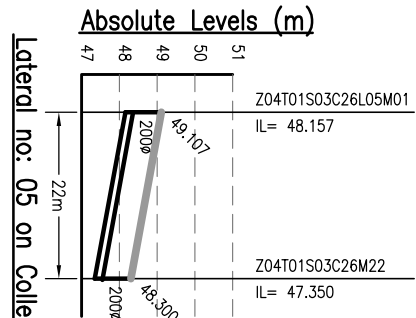
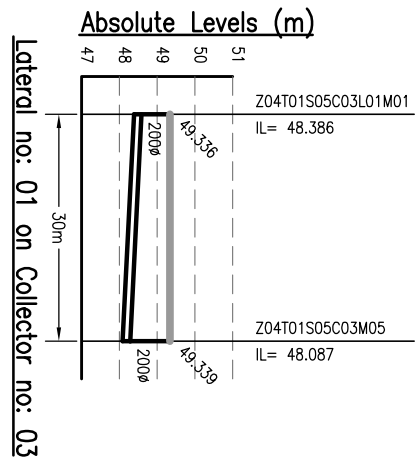
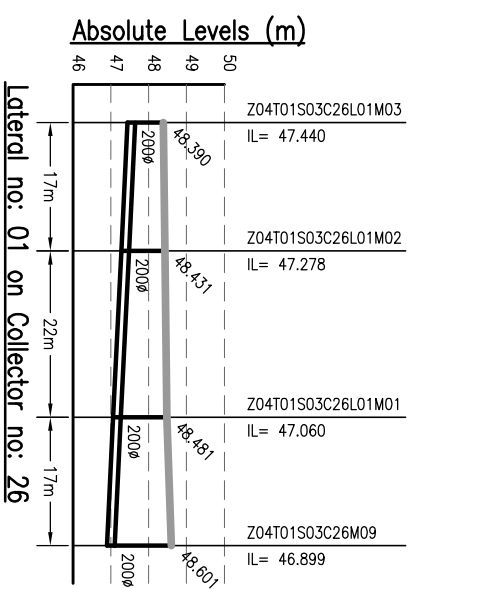
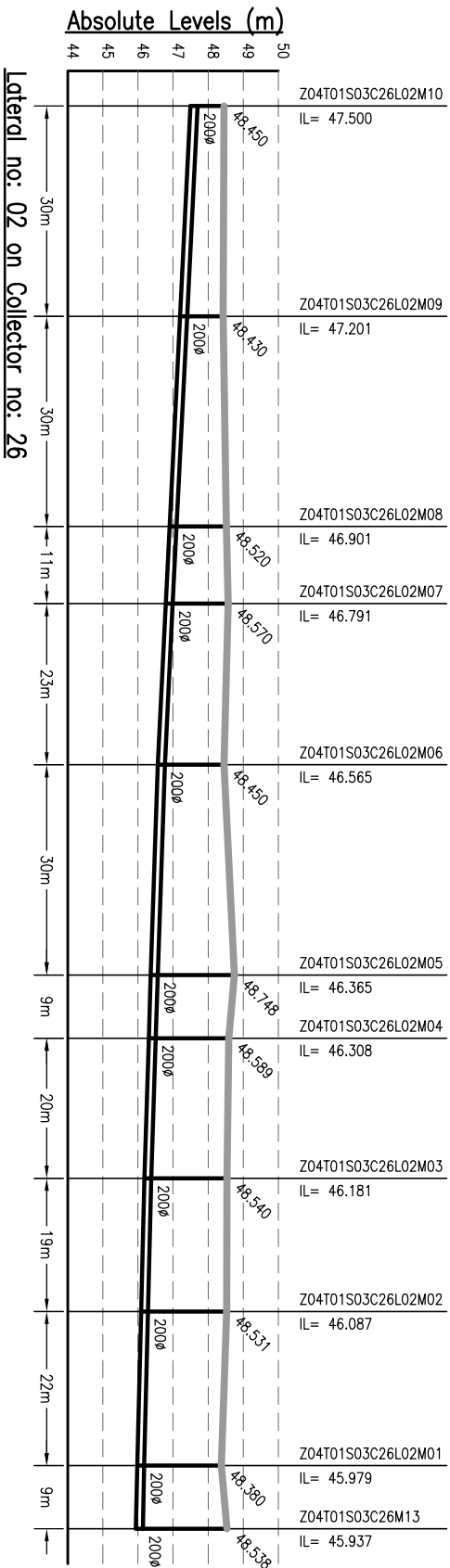
PROJECT:-
 PREPARATION OF DETAILED
 PROJECT REPORTS (DPRS) & BID
 DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION &
 QUALITY CONTROL OF SEWERAGE &
 DRAINAGE PROJECTS OF PATNA
 UNDER JNNURM

CONSULTANT:-
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DRAWING TITLE
SEWERAGE
L-SECTION OF LATERAL
ZONE-4A, TRUNK-1 (SPS-B)
 (PART - 7 OF 18)

DISCIPLINE	DESIGNED	CHECKED	APPROVED	JOB NO.
PH	JR	RP	CRR	1092.01

REVISION	DRAWING NO.
00	Z4A-11-L-07



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Drawing Base Reference:-
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SNS	DRAFT DPR SUBMISSION	RP

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PROJECT:-
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 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

CONSULTANT:-

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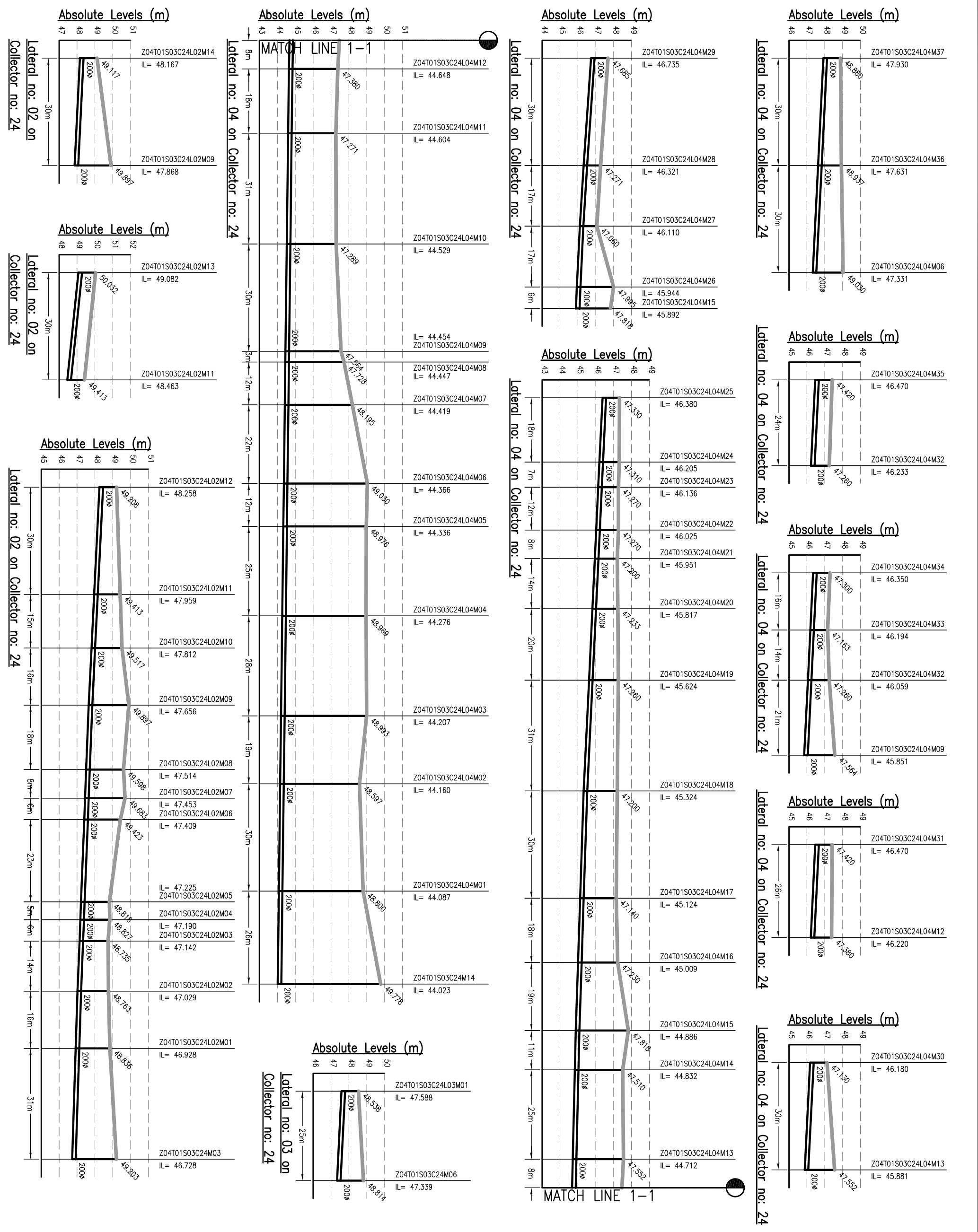
DRAWING TITLE
SEWERAGE
L-SECTION OF LATERAL
ZONE-4A, TRUNK-1 (SPS-B)
 (PART - 8 OF 18)

DISCIPLINE	DATE OF FIRST ISSUE	SCALE
PH <td>MAY 2013 <td>H=1000, V=200</td> </td>	MAY 2013 <td>H=1000, V=200</td>	H=1000, V=200

BY	DATE OF FIRST ISSUE	SHEET SIZE
SNS <td>MAY 2013 <td>A3</td> </td>	MAY 2013 <td>A3</td>	A3

DESIGNED	CHECKED	APPROVED	JOB NO.
JR	RP	CRR	1092.01

DATE	REVISION
MAY 2013	00



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Drawing Base Reference:
PMC WORK ORDER 3499, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
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PROJECT:-
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DRAWING TITLE
SEWERAGE
L-SECTION OF LATERAL
ZONE-4A, TRUNK-1 (SPS-B)
 (PART - 9 OF 18)

PURPOSE OF ISSUE
 DRAFT DETAILED PROJECT REPORT

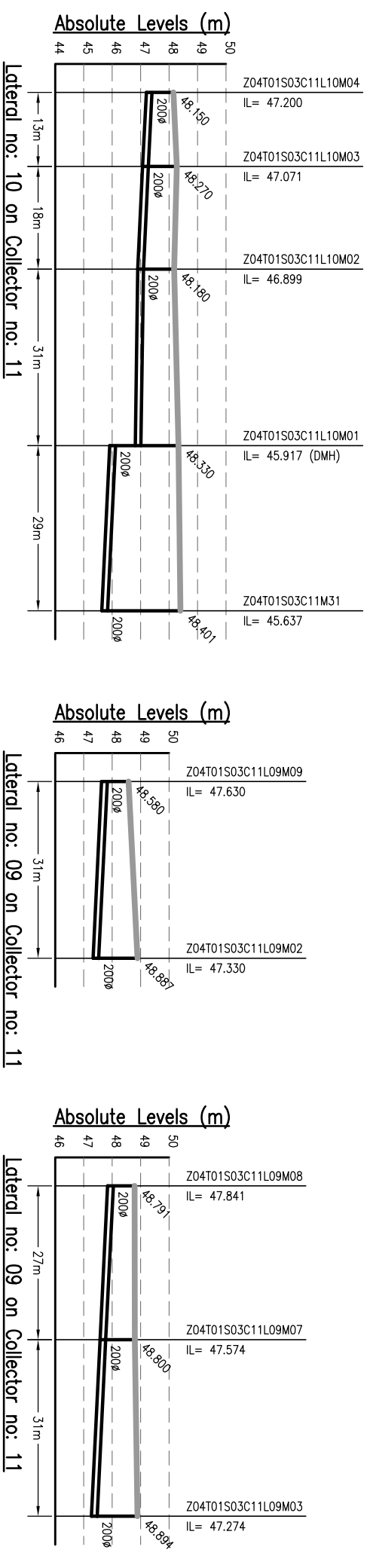
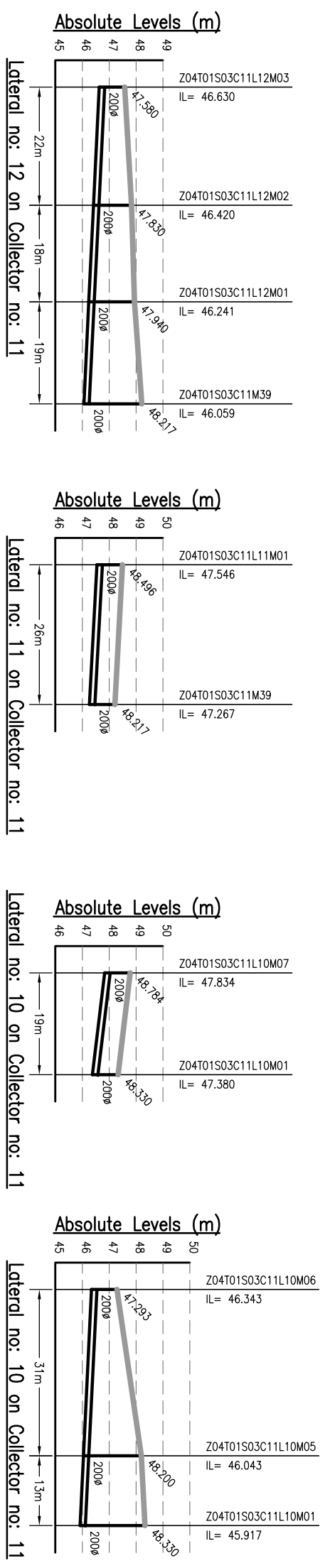
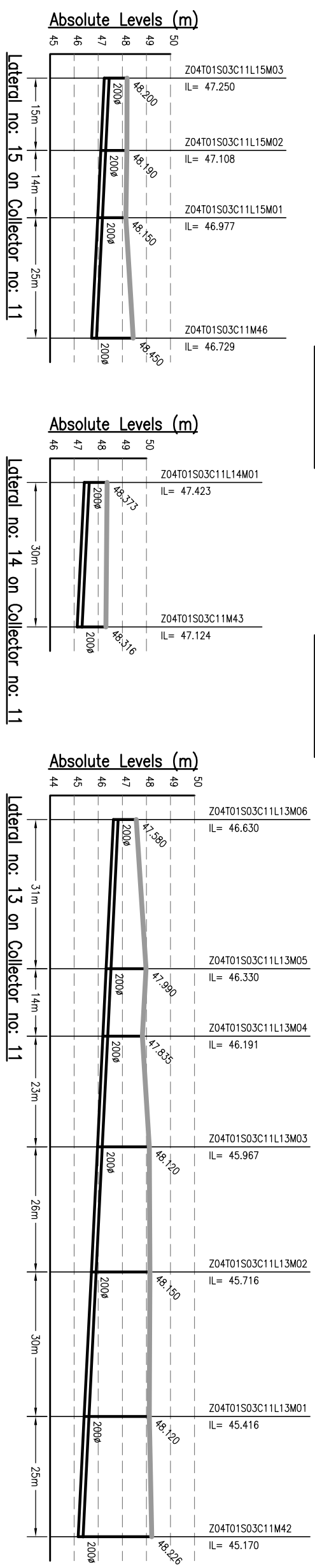
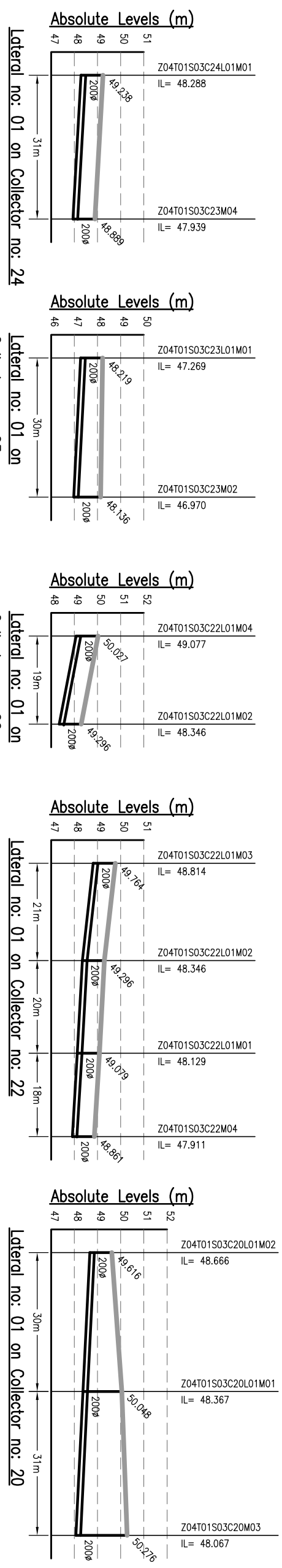
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SHEET SIZE: A3

DATE OF FIRST ISSUE
 MAY 2013

DISCIPLINE	NO.	DATE	REVISION
PH	1	MAY 2013	00

1092.01 **Z4A-T1-L-09**



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Drawing Base Reference:-
PHC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SNS	DRAFT DPR SUBMISSION	RP

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DRAWING TITLE
 SEWERAGE
 L-SECTION OF LATERAL
 ZONE-4A, TRUNK-1 (SPS-B)
 (PART - 10 OF 16)

PURPOSE OF ISSUE
 DRAFT DETAILED PROJECT REPORT

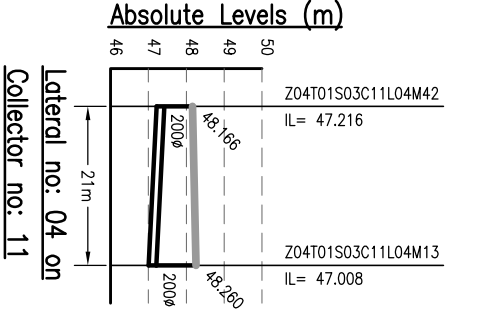
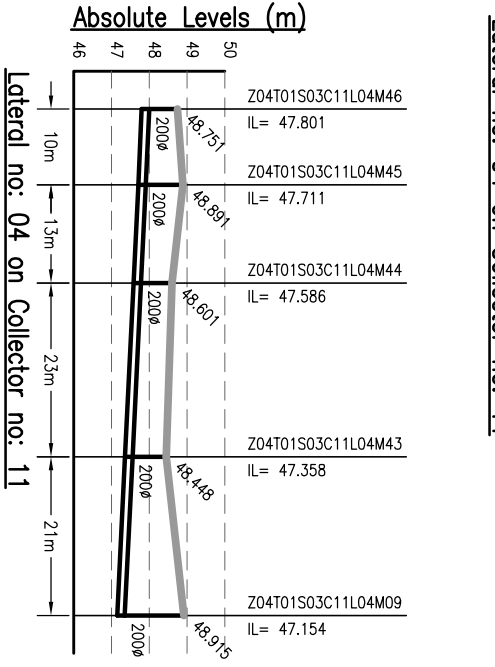
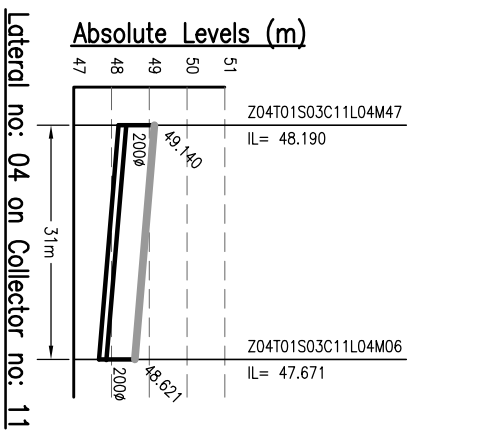
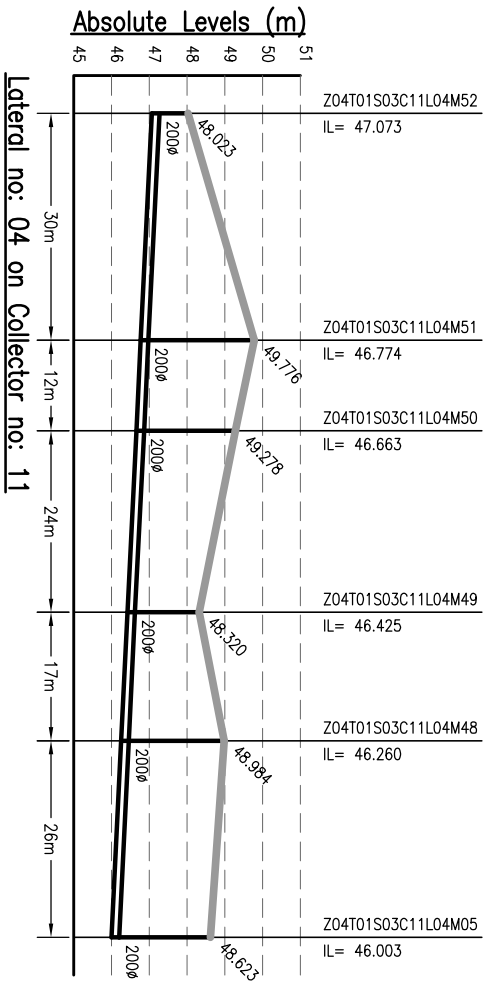
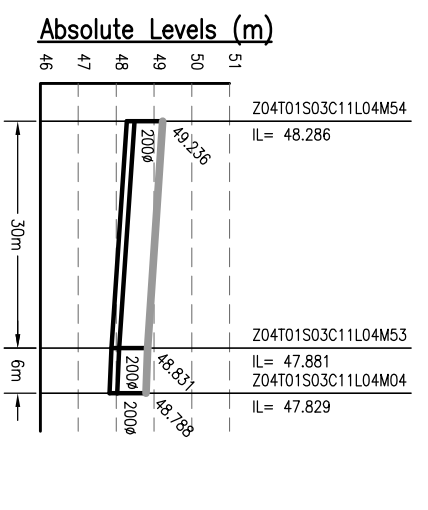
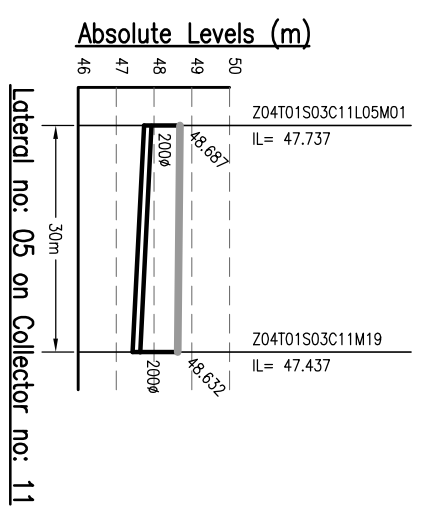
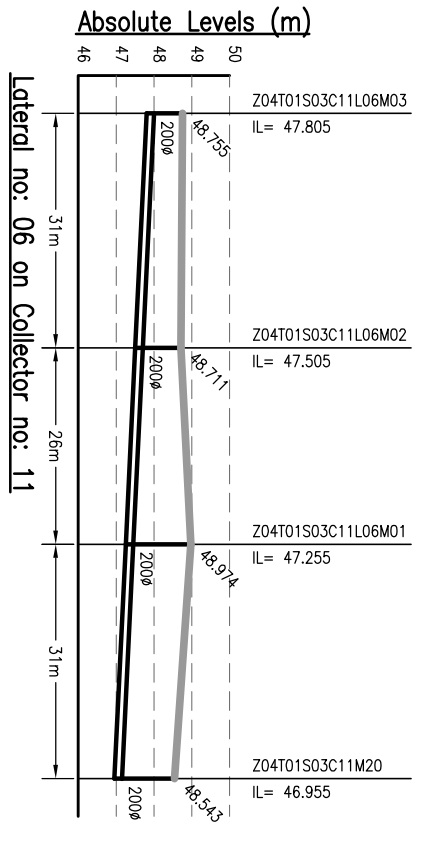
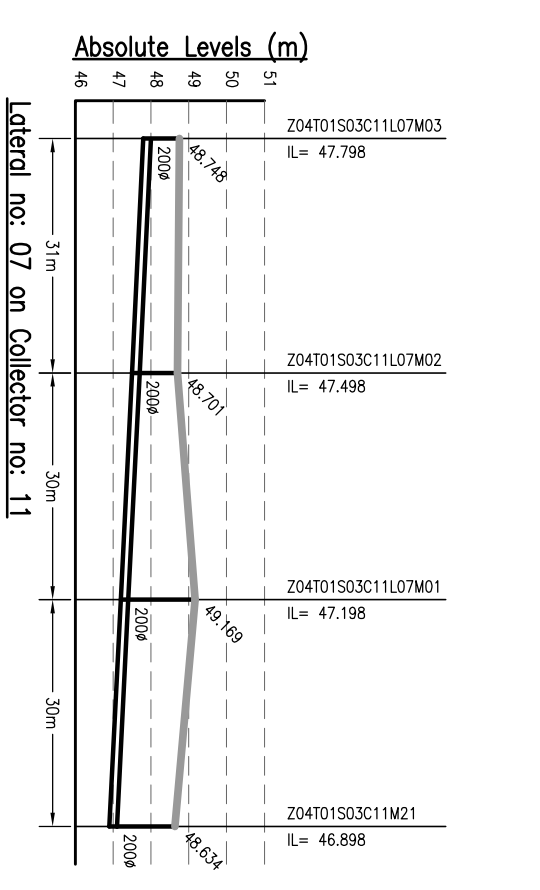
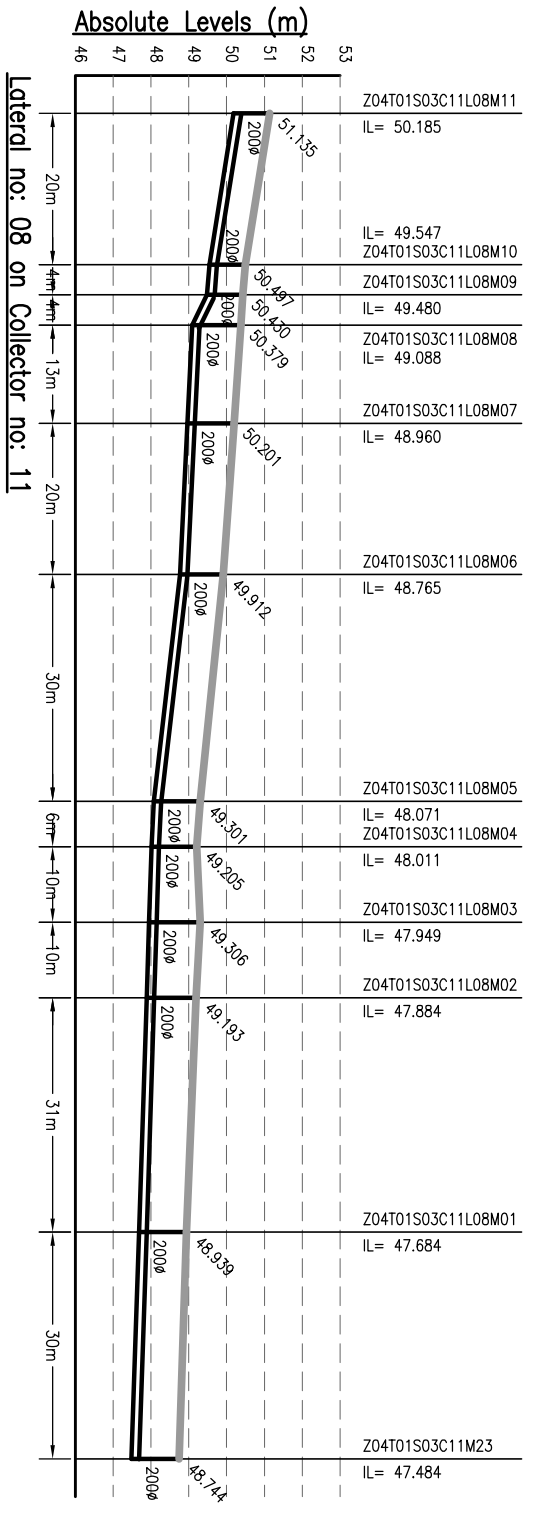
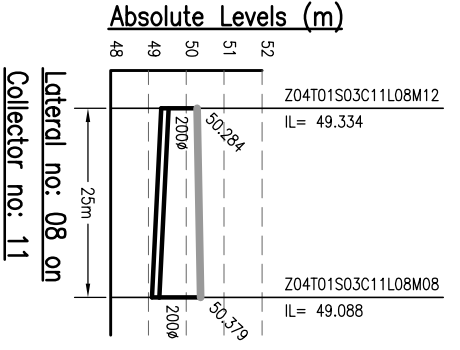
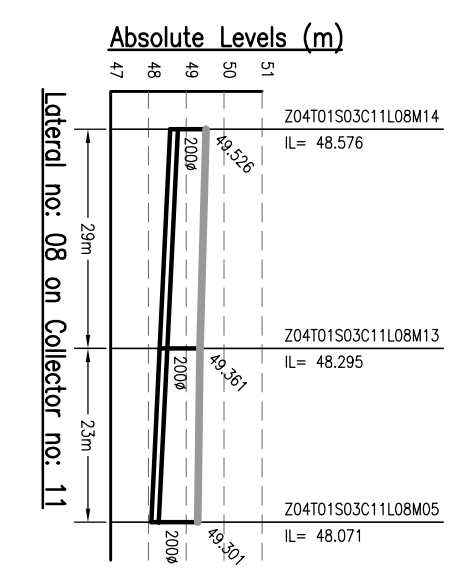
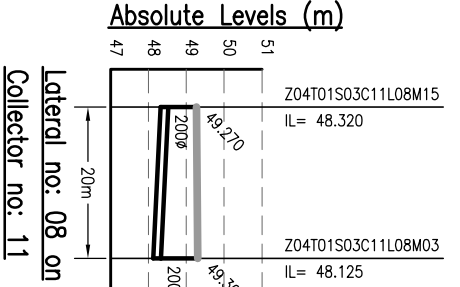
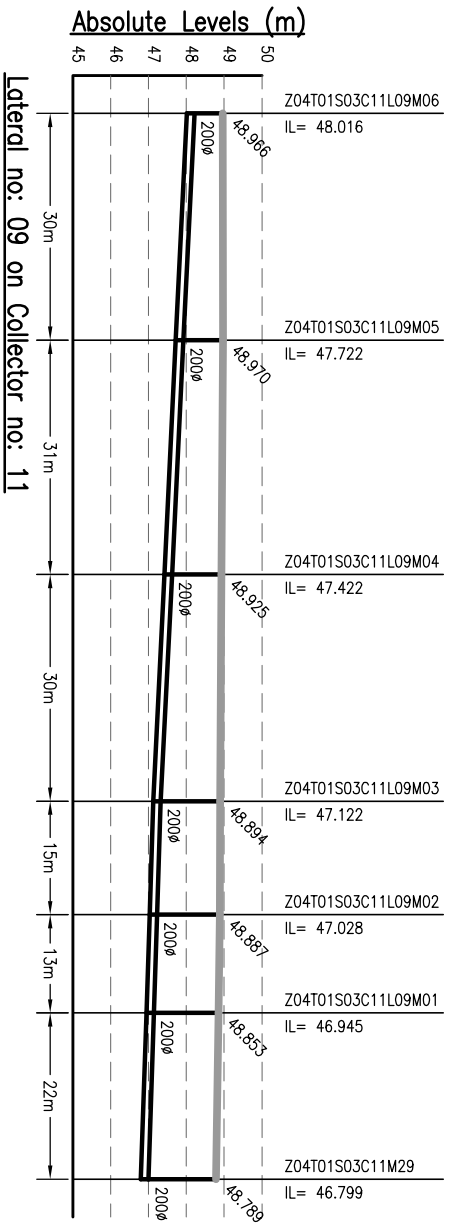
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SHEET SIZE : A3

DATE OF FIRST ISSUE

DISCIPLINE	DATE	BY	CHKD
SKS	MAY 2013		
JR	MAY 2013		
RP	MAY 2013		
CRR	MAY 2013		

JOB NO. : 1092.01
DISCIPLINE : PH
DRAWING NO. : Z4A-T1-L-10
REVISION : 00



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Drafting Base Reference:-
PHC WORK ORDER 3409, DATED 15 DECEMBER 2009.

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 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION &
 QUALITY CONTROL OF SEWERAGE &
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 UNDER JNNURM

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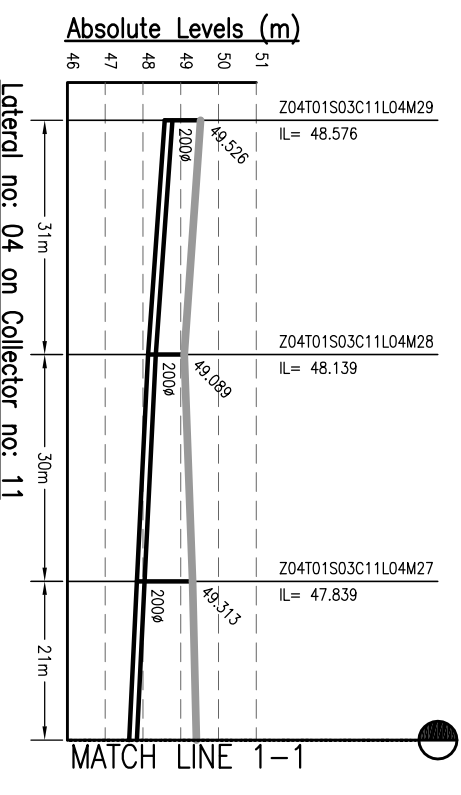
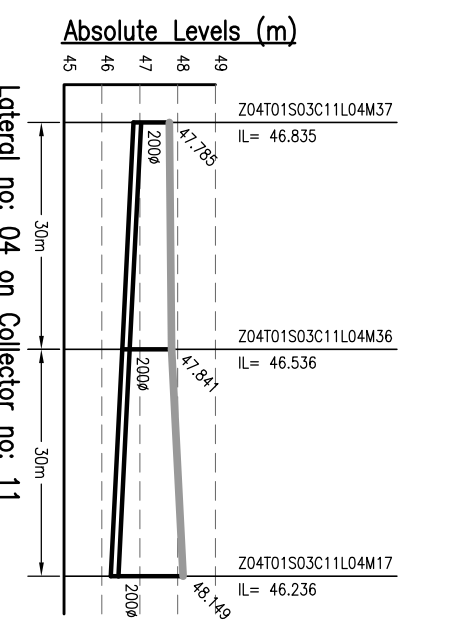
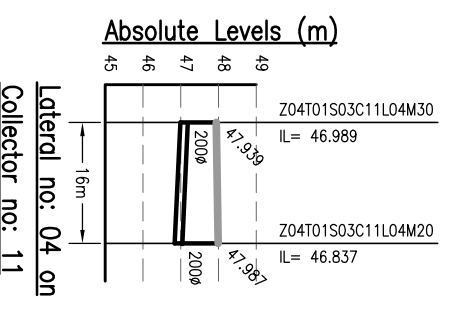
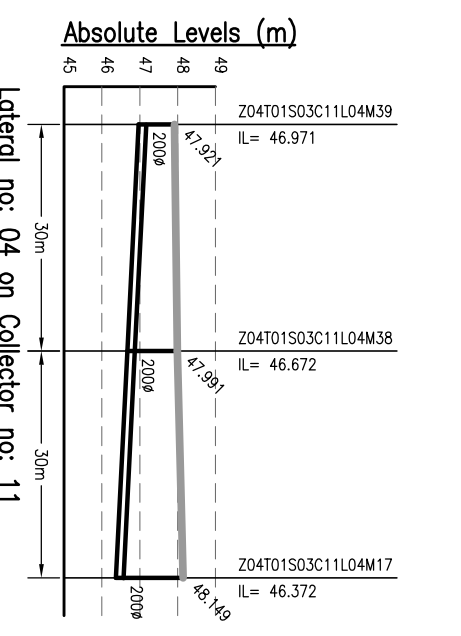
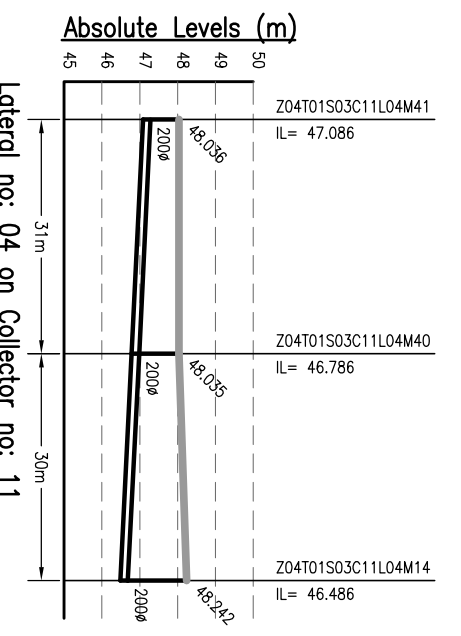
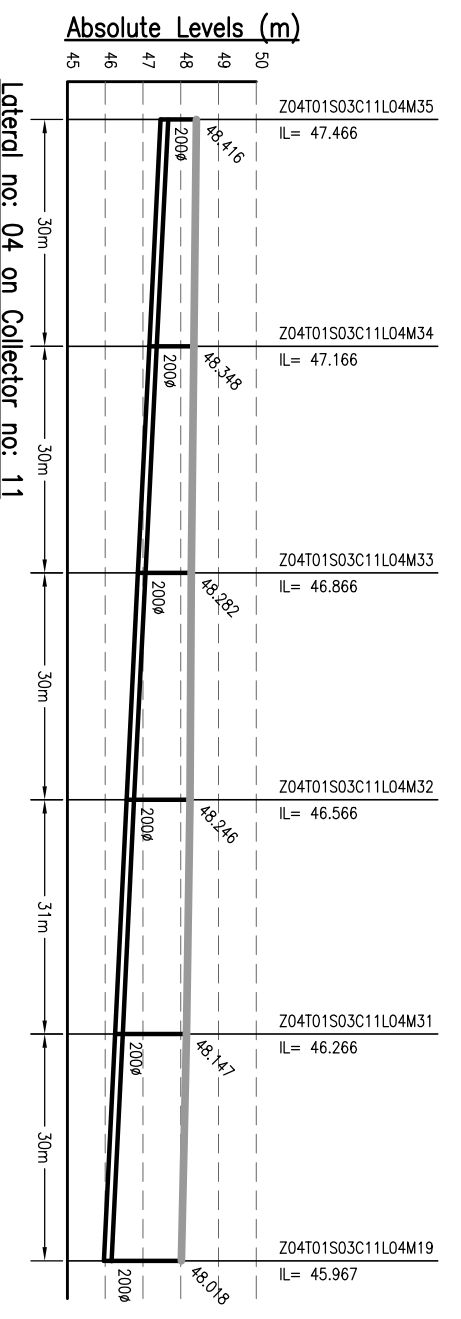
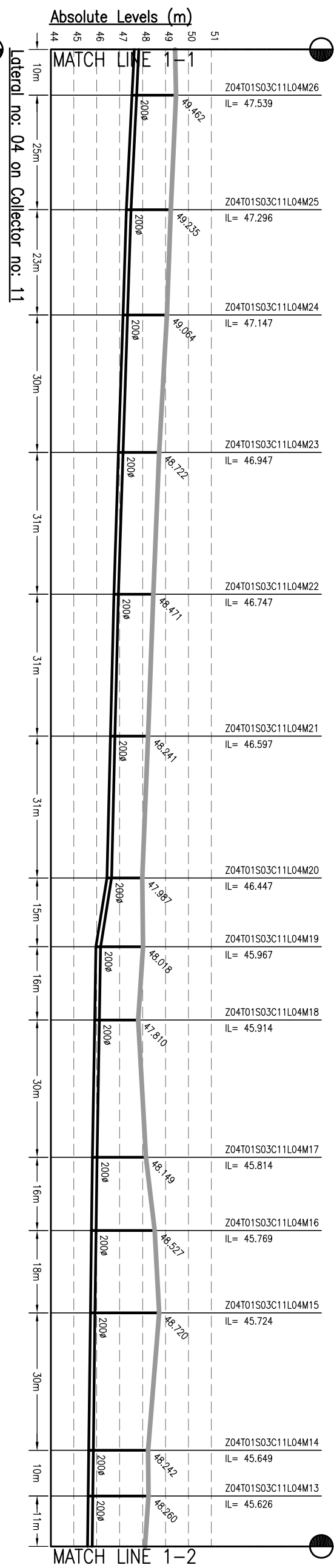
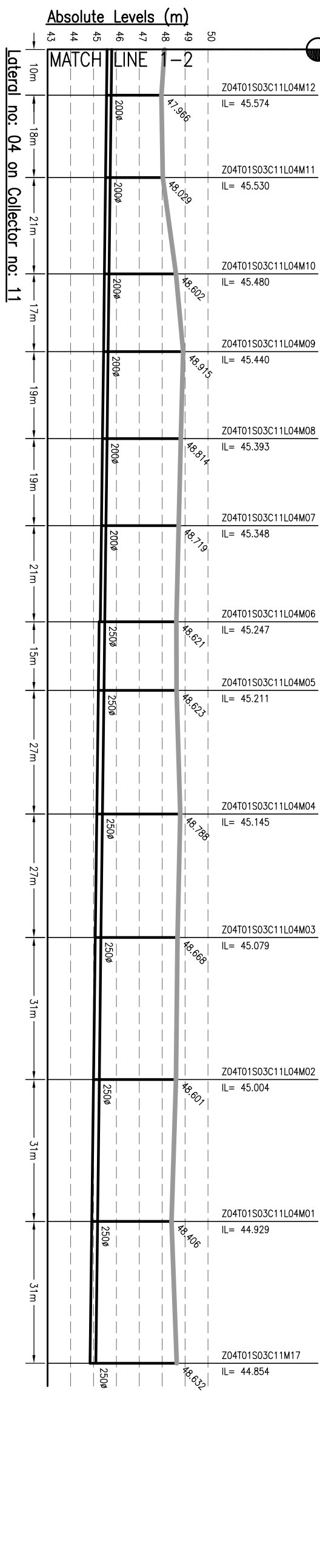
DRAWING TITLE
 SEWERAGE
 L-SECTION OF LATERAL
 ZONE-4A, TRUNK-1 (SPS-B)
 (PART - 11 OF 18)

PURPOSE OF ISSUE
 DRAFT RETAINED PROJECT REPORT

DRAWN SKS
CHECKED JR
DESIGNED RP
APPROVED CRR

DATE OF FIRST ISSUE MAY 2013
SCALE : H-1000, V-200
SHEET SIZE : A3

JOB NO. 1092.01
DISCIPLINE PH
DRAWING NO. Z4A-11-L-11
REVISION 00



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Drawing Base Reference:
PHC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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PROJECT:-
 PREPARATION OF DETAILED
 PROJECT REPORTS (DPRS) & BID
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 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION &
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 UNDER JNNURM

CONSULTANT:-
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DRAWING TITLE
 SEWERAGE
 L-SECTION OF LATERAL
 ZONE-4A, TRUNK-1 (SPS-B)
 (PART - 12 OF 18)

PURPOSE OF ISSUE
 DRAFT DETAILED PROJECT REPORT

SCALE: H-1:1000, V-200

SHEET SIZE: A3

DATE OF FIRST ISSUE	DATE OF THIS ISSUE
MAY 2013	MAY 2013

DESIGNED BY: SKS

CHECKED BY: JR

APPROVED BY: RP

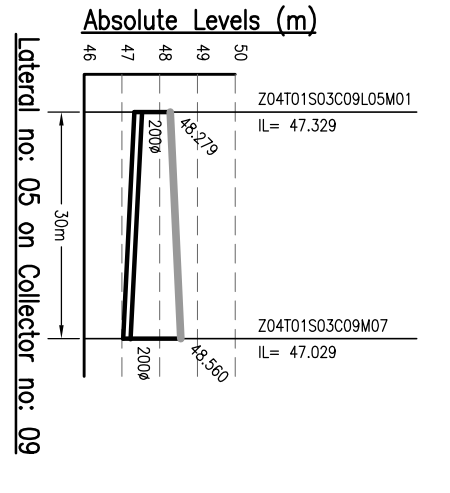
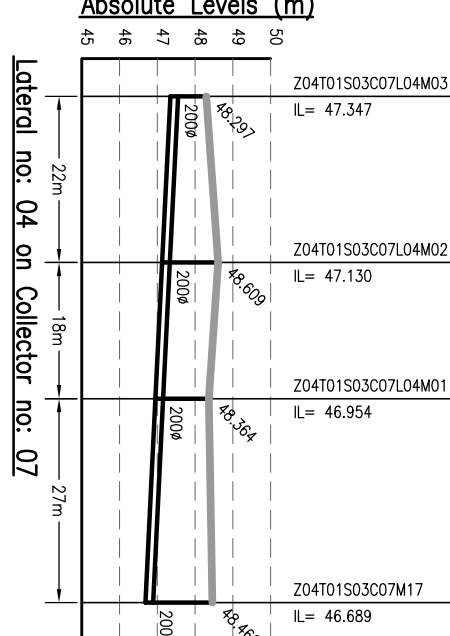
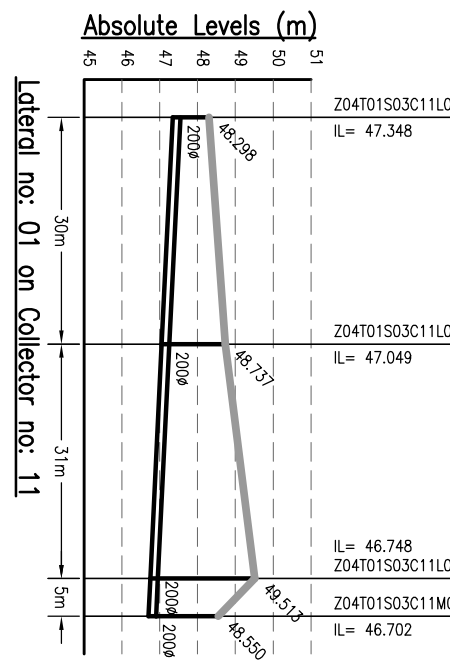
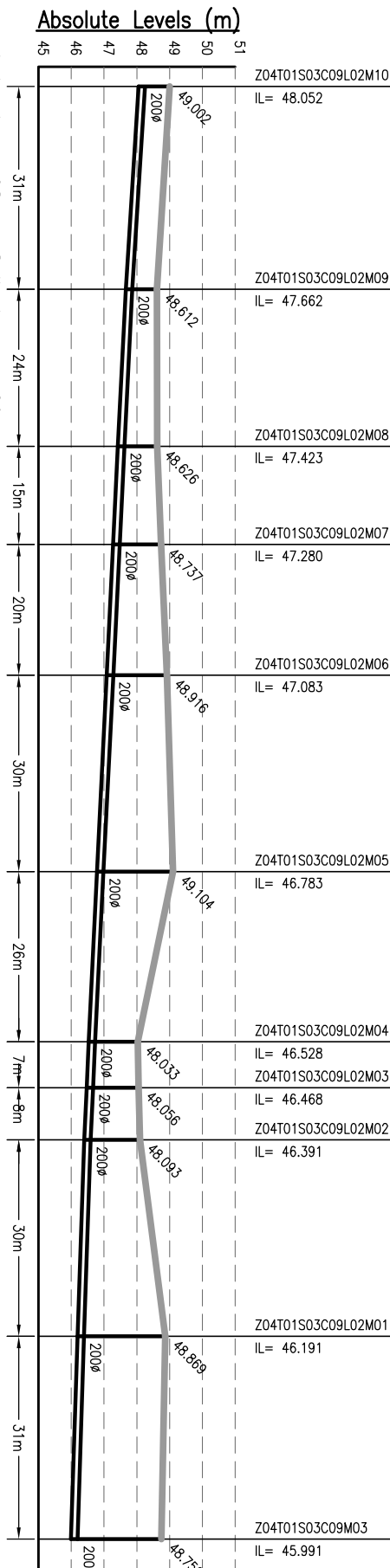
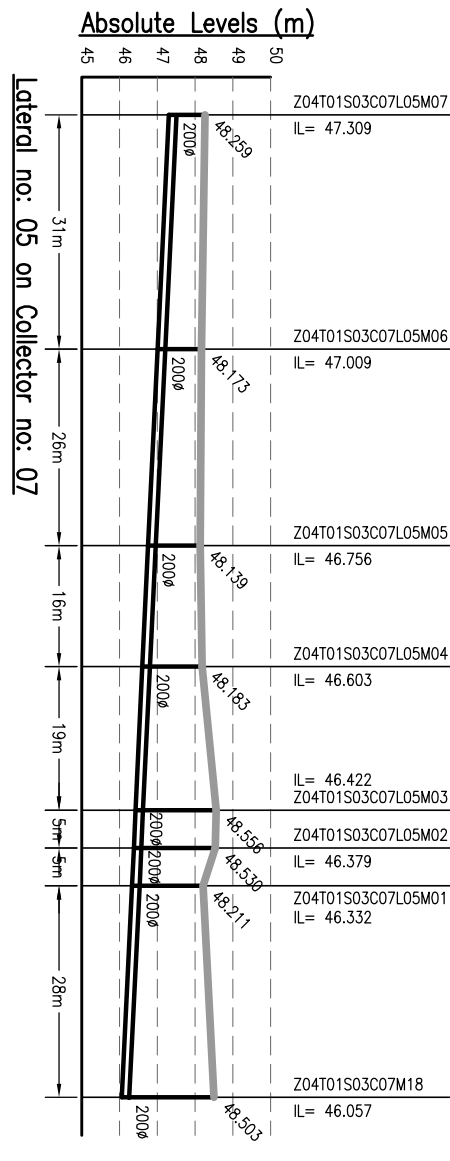
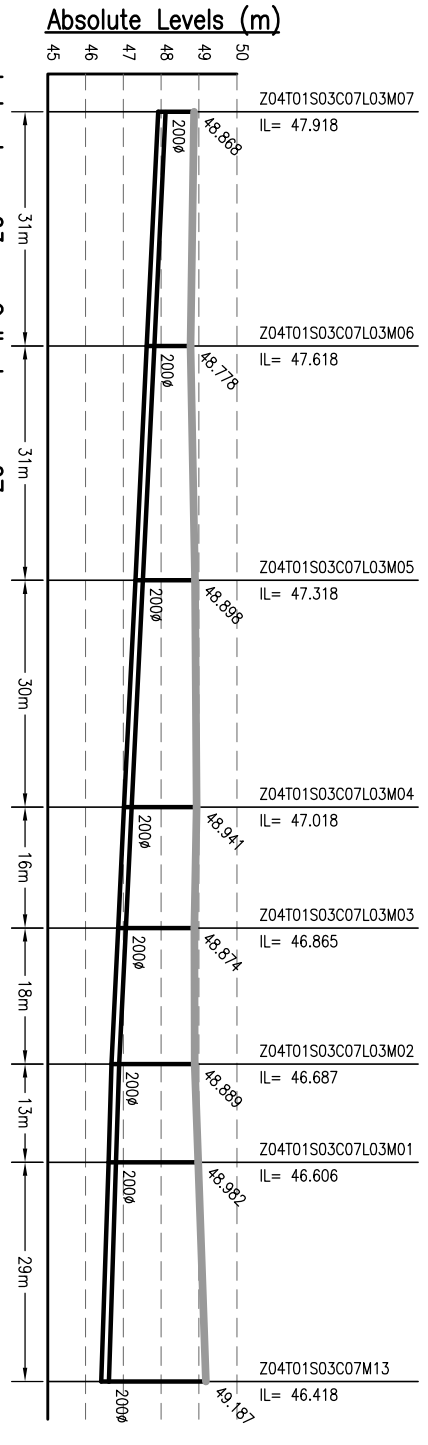
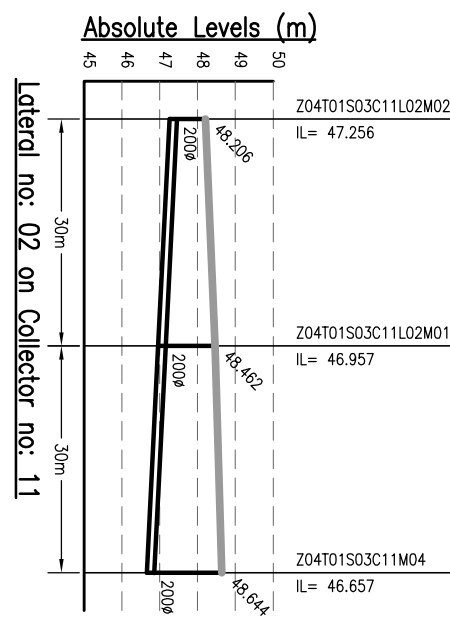
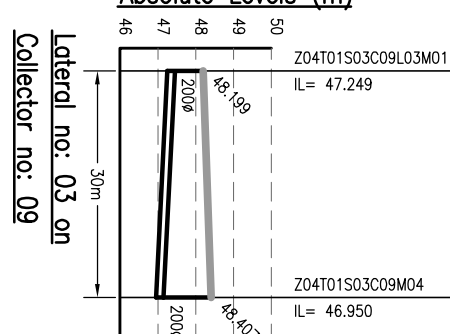
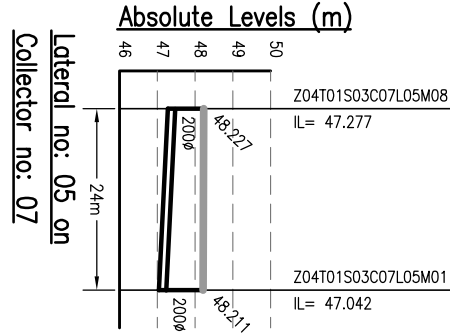
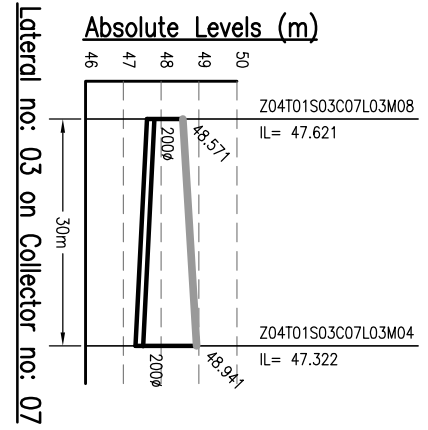
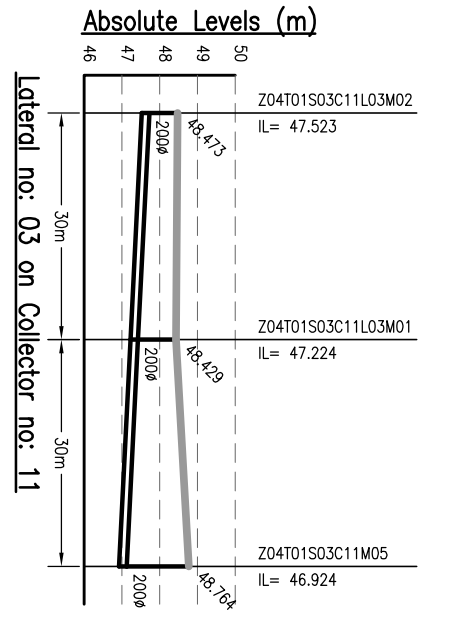
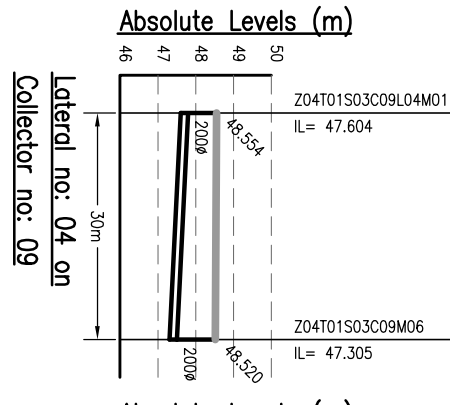
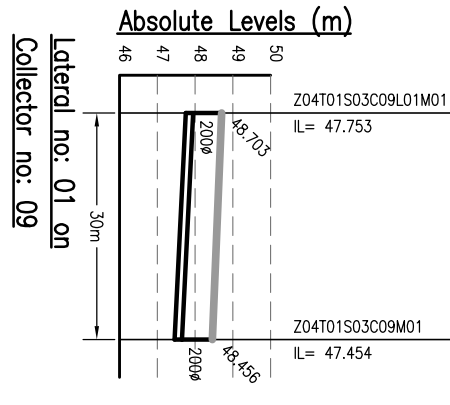
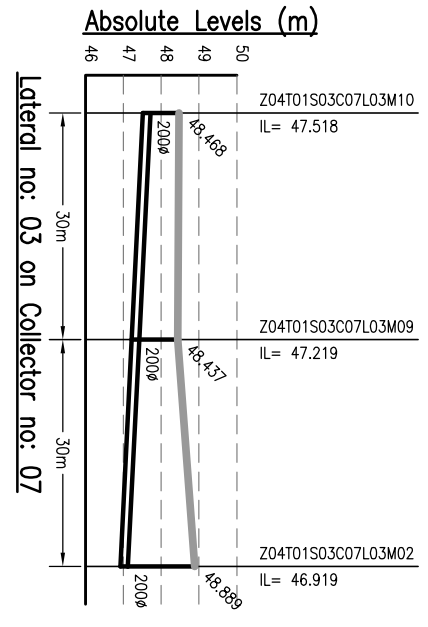
DATE: MAY 2013

JOB NO.: 1092.01

DISCIPLINE: PH

DRAWING NO.: Z4A-T1-L-12

REVISION: 00



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 4. REFER DRAWING NO. TO 491 & 1092/01-PH-S-01 TO 491 FOR LOCATION OF MANHOLE AND OTHER DETAILS.

Drawing Base Reference:-
PMC WORK ORDER 3499, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SNS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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PROJECT:-
 PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

CONSULTANT:-

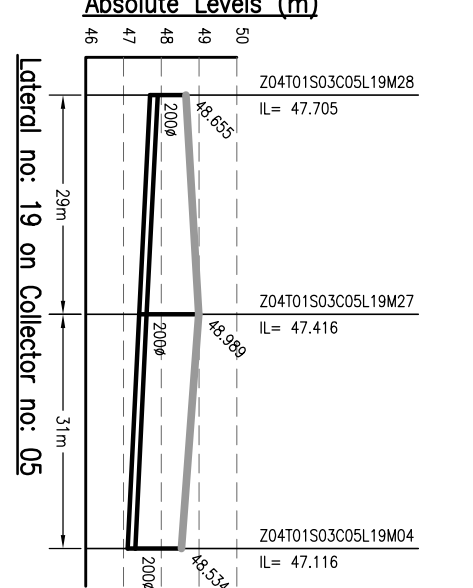
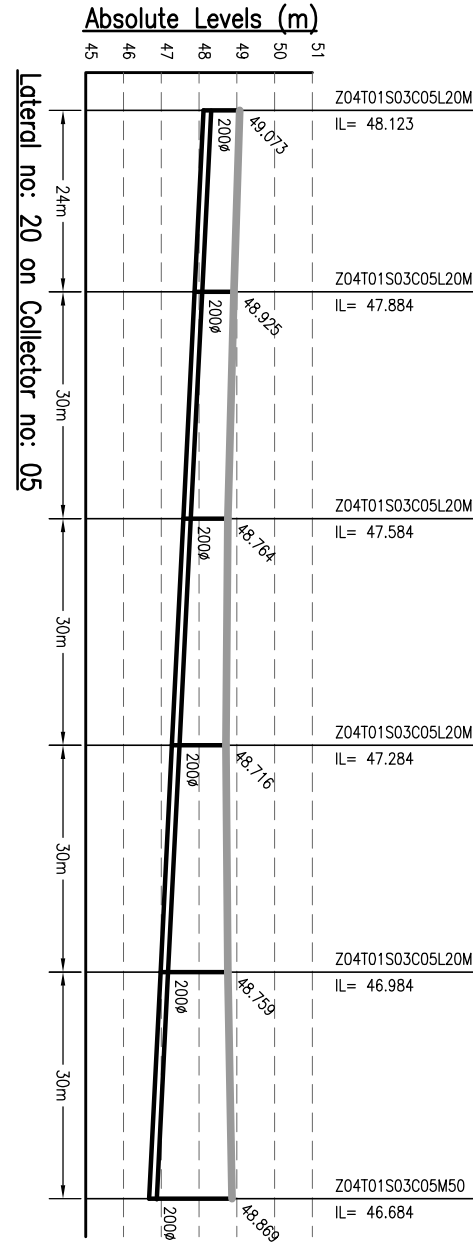
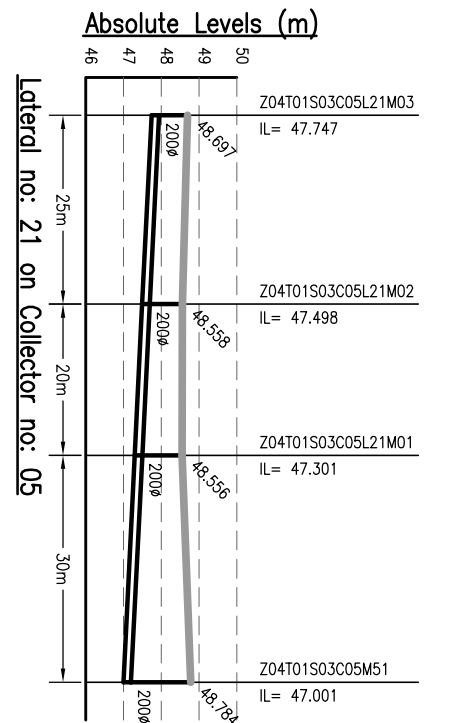
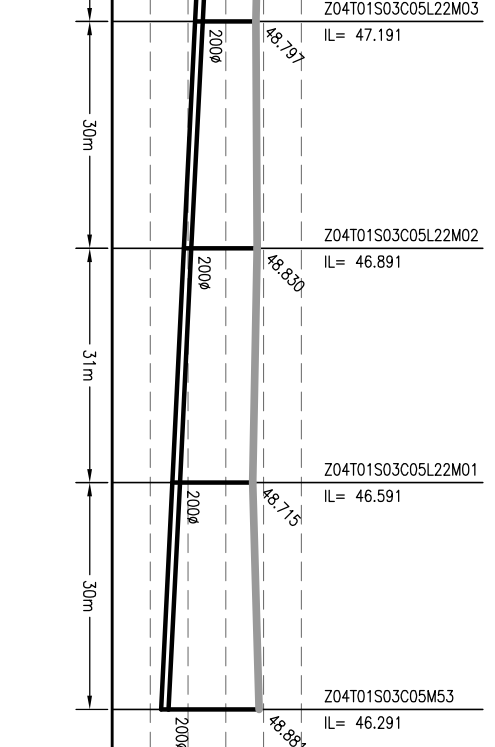
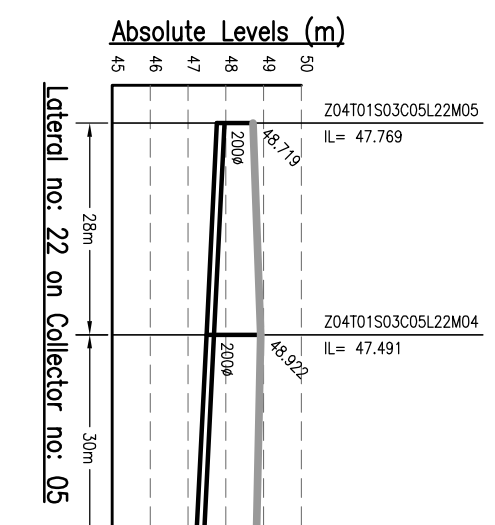
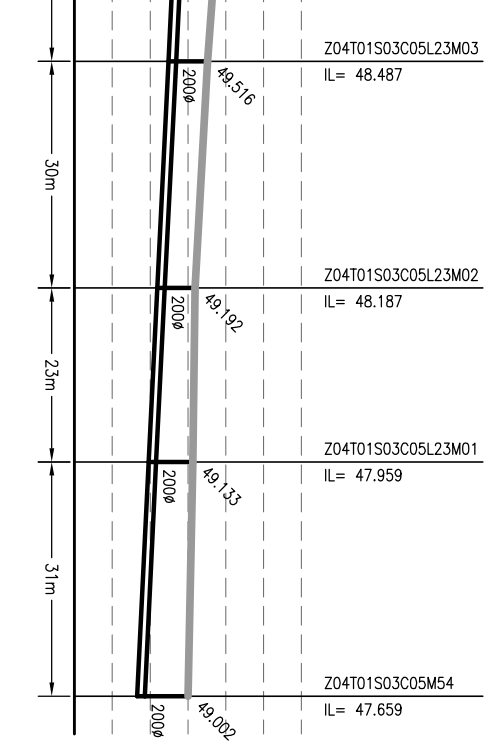
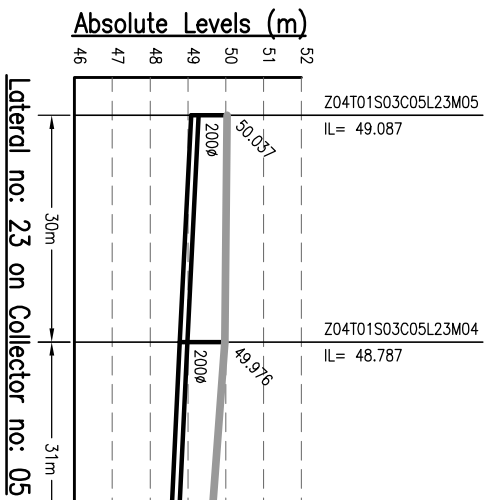
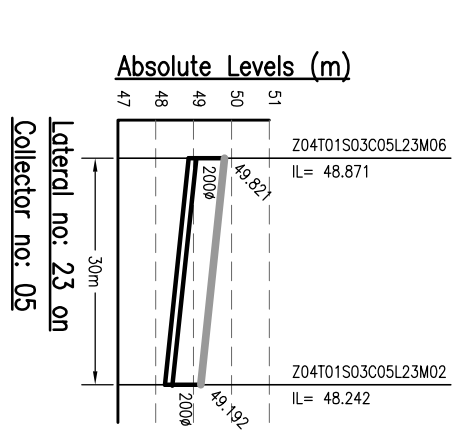
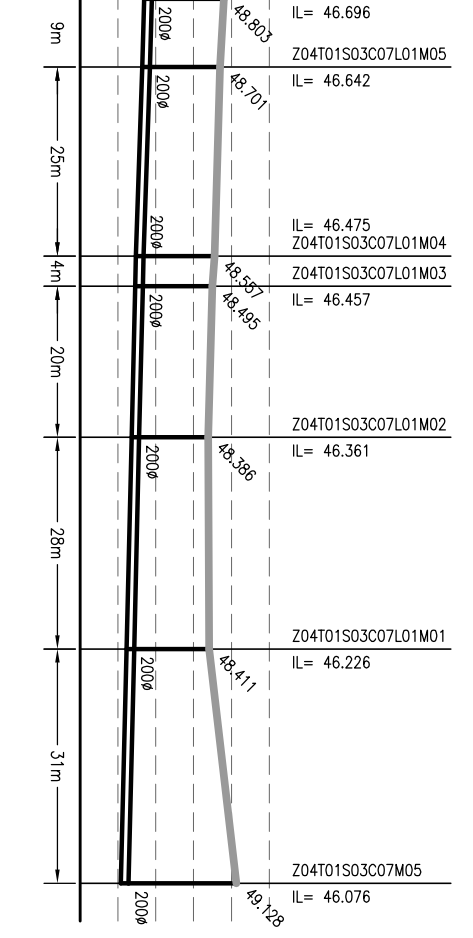
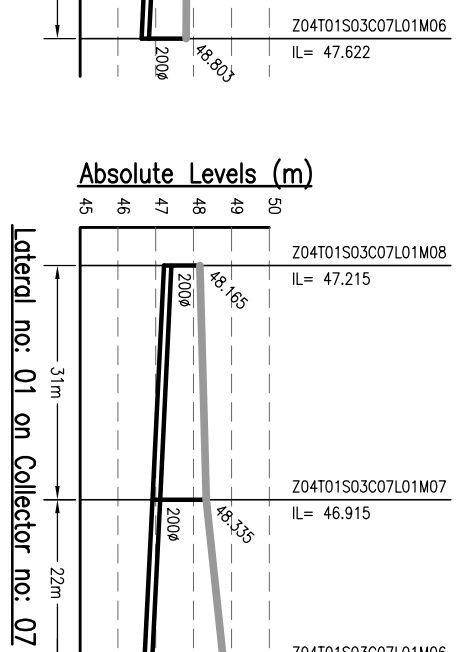
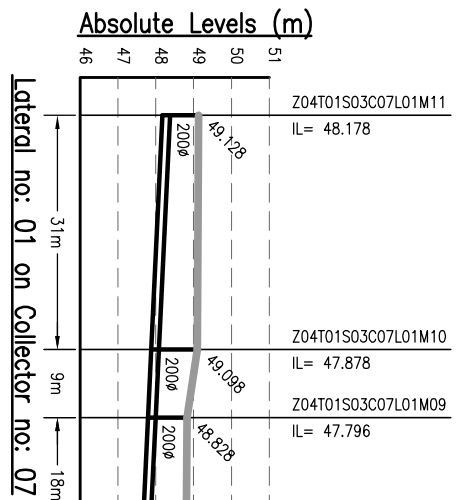
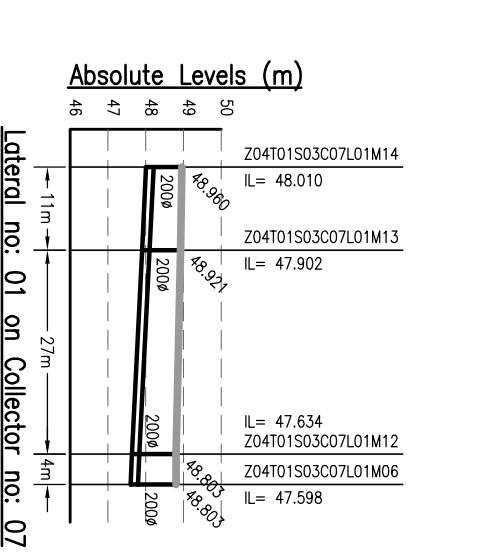
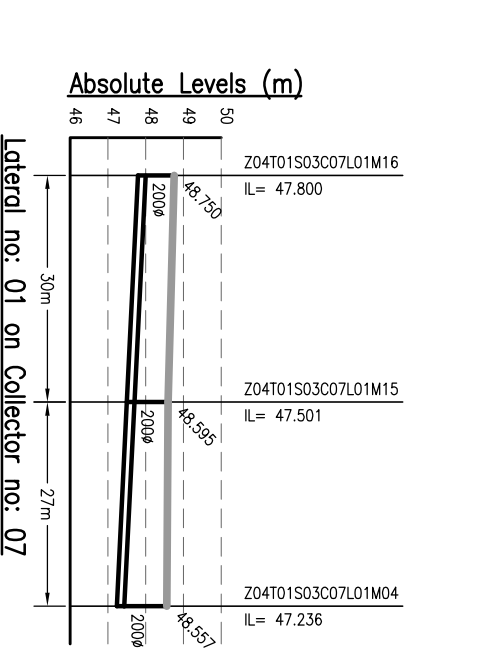
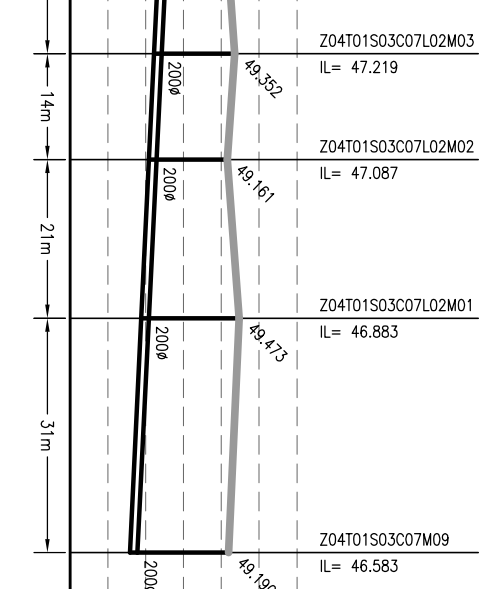
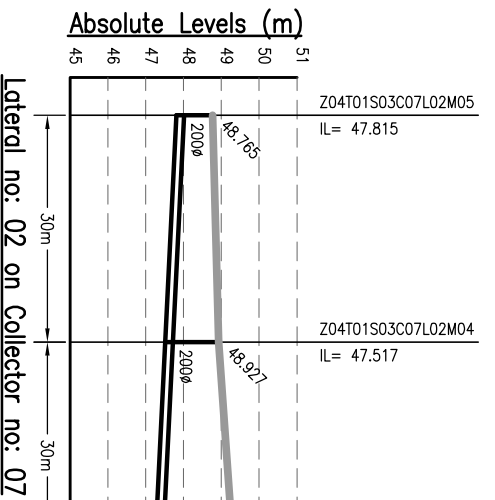
MEINHARDT
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 www.meinhardtgroup.com, Email:- info@meinhardtindia.com

DRAWING TITLE
 SEWERAGE
 L-SECTION OF LATERAL
 ZONE-4A, TRUNK-1 (SPS-B)
 (PART - 13 OF 18)

PURPOSE OF ISSUE
 DRAFT DETAILED PROJECT REPORT

DESIGNED	BY	DATE OF FIRST ISSUE
CHECKED	BY	
APPROVED	BY	

JOB NO. 1092.01 **DISCIPLINE** PH **DRAWING NO.** Z4A-11-L-13 **REVISION** 00



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Drawing Base Reference:-
PWC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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 Website: http://www.bidc.org.in, Email: info@bidc.org.in

PROJECT:-
 PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

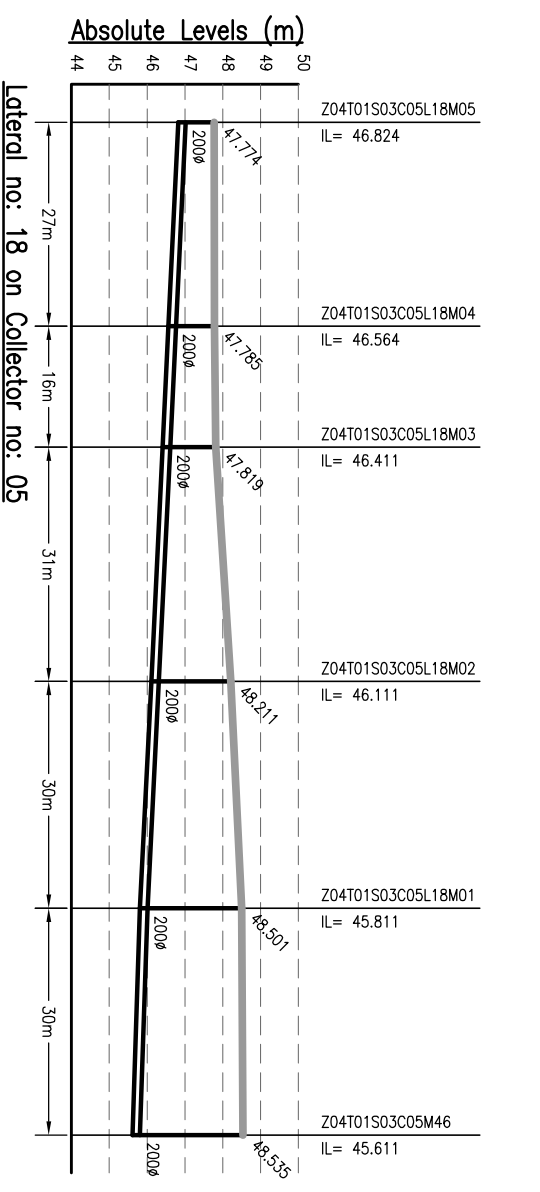
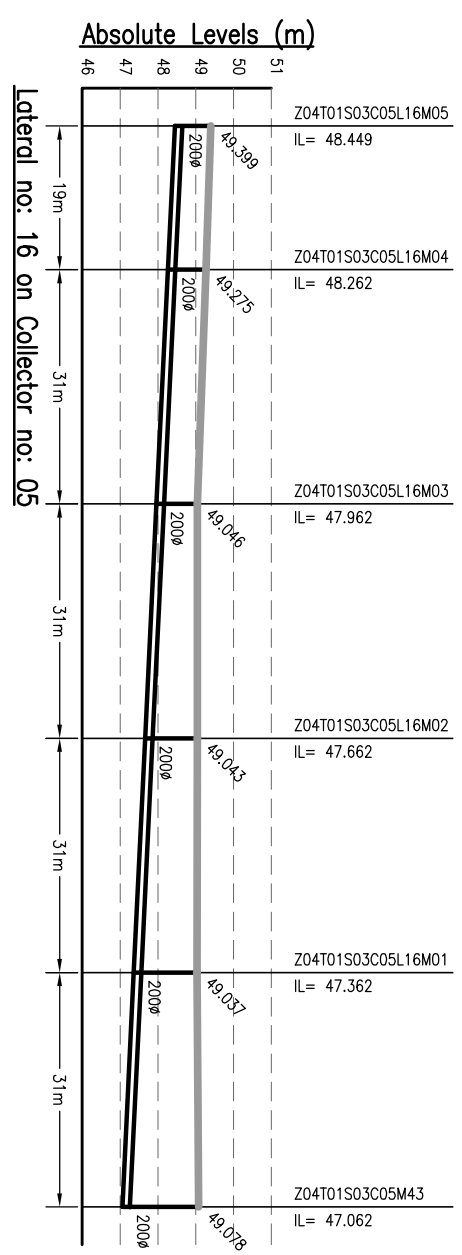
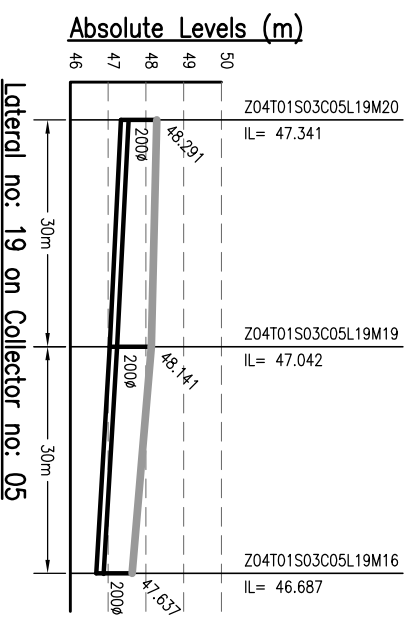
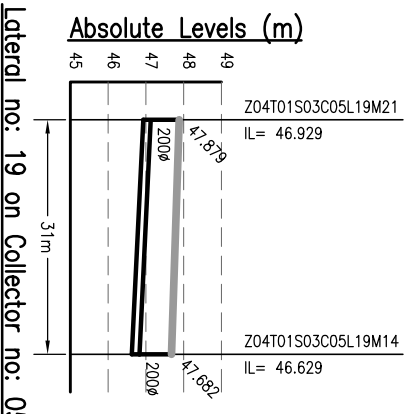
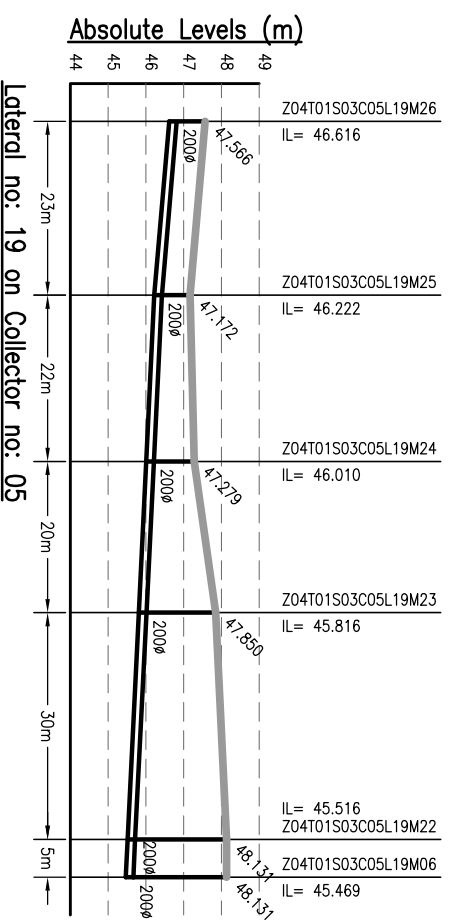
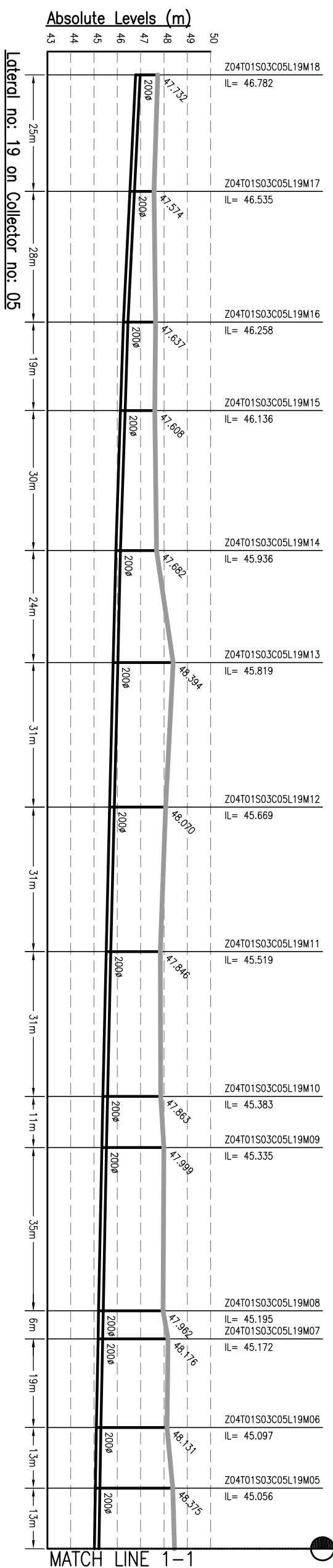
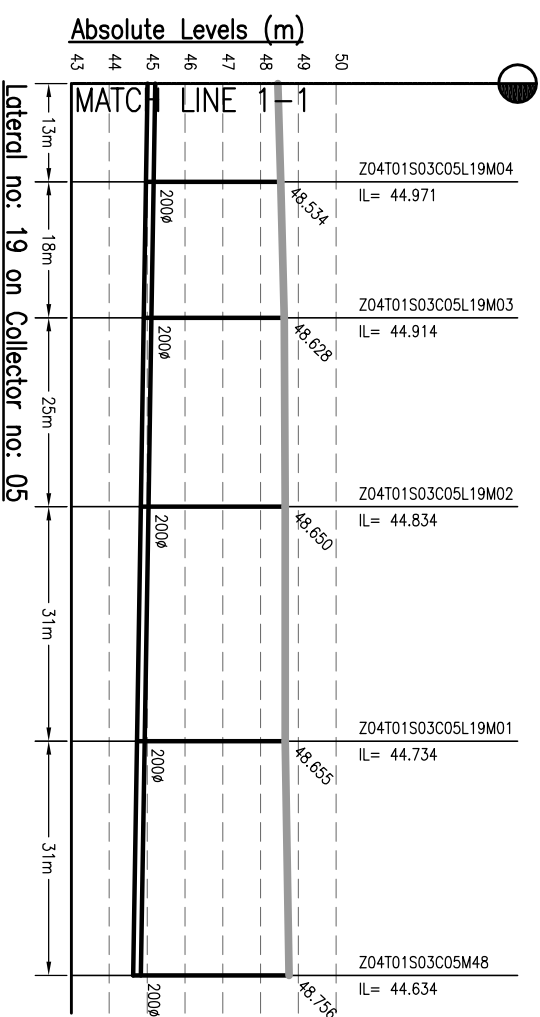
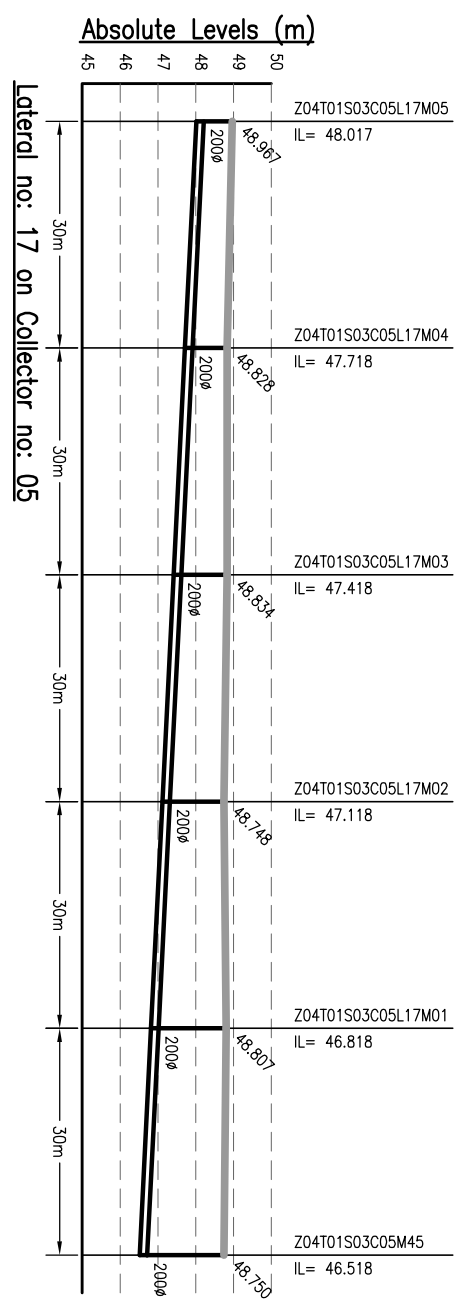
CONSULTANT:-
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DRAWING TITLE
 SEWERAGE
 L-SECTION OF LATERAL
 ZONE-4A, TRUNK-1 (SPS-B)
 (PART - 14 OF 16)

DESIGNED	CHECKED	APPROVED	JOB NO.
JR	RP	CRR	1092.01

DATE	BY	SCALE	SHEET NO.
MAY 2013	SKS	H=1000, V=200	14

DATE OF FIRST ISSUE	REVISION NO.	REVISION
MAY 2013	00	Z4A-11-L-14



DATE PLOTTED: 14/02/2013 10:50:00 AM

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- REFER DRAWING NO. TO 491 & 1092.01-PH-S-01 TO 491 FOR LOCATION OF MANHOLE AND OTHER DETAILS.

AMENDMENTS

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SNS	DRAFT DPR SUBMISSION	RP

CLIENT:-

BIHAR
URBAN INFRASTRUCTURE
DEVELOPMENT CORPORATION

PROJECT:-

PREPARATION OF DETAILED
PROJECT REPORTS (DPRS) & BID
DOCUMENTS;
TENDERING FOR EXECUTION;
CONSTRUCTION SUPERVISION &
QUALITY CONTROL OF SEWERAGE &
DRAINAGE PROJECTS OF PATNA
UNDER JNNURM

CONSULTANT:-

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DRAWING TITLE

**L-SECTION OF LATERAL
ZONE-4A, TRUNK-1 (SPS-B)
(PART - 15 OF 16)**

PURPOSE OF ISSUE

DRAFT DETAILED PROJECT REPORT

SCALE:- H-1:1000, V-200

SHEET SIZE:- A3

DATE OF FIRST ISSUE

MAY 2013

DESIGNED

JR

MAY 2013

CHECKED

RP

MAY 2013

APPROVED

CRR

MAY 2013

JOB NO.

1092.01

DISCIPLINE

PH

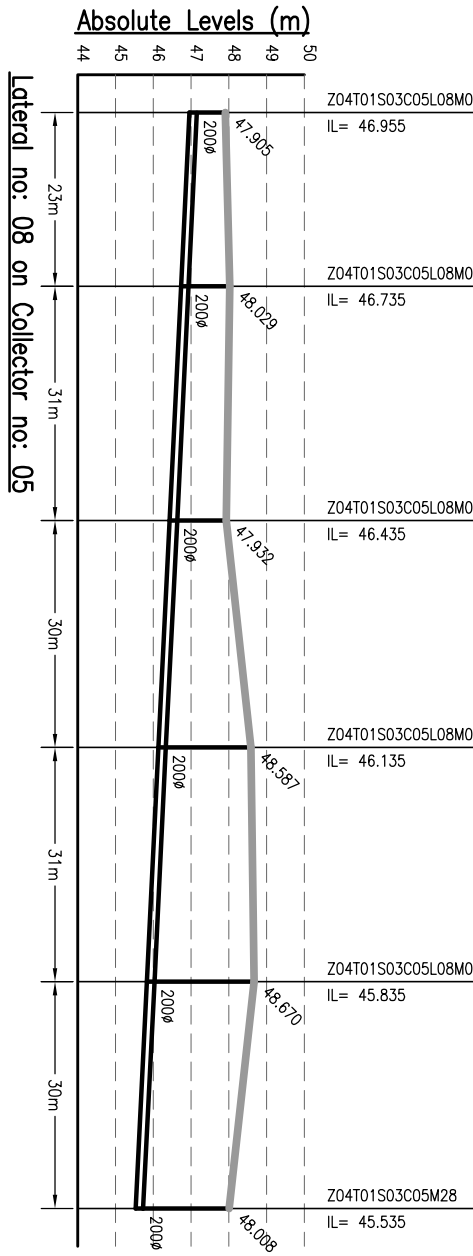
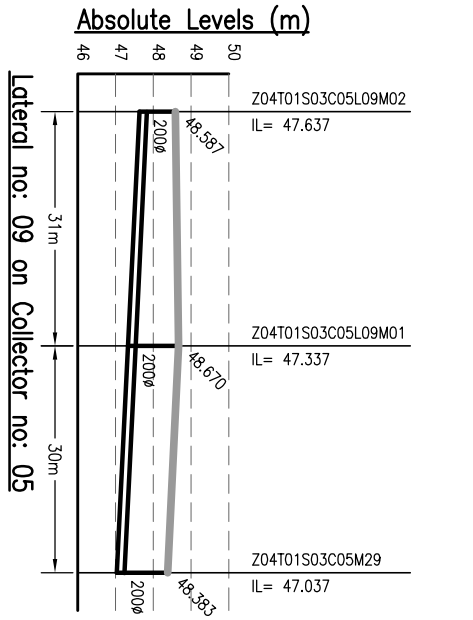
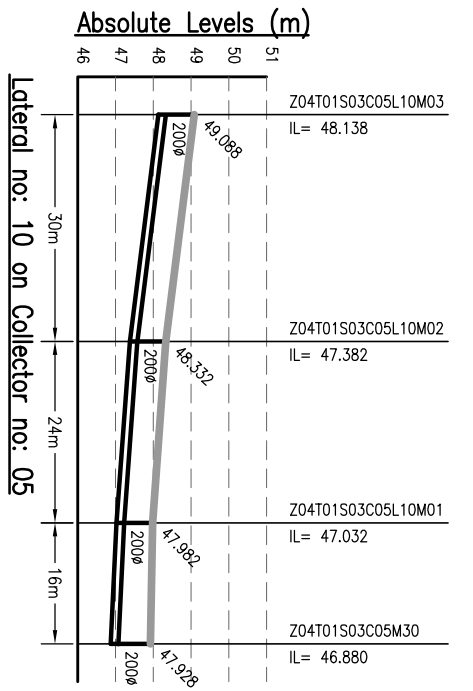
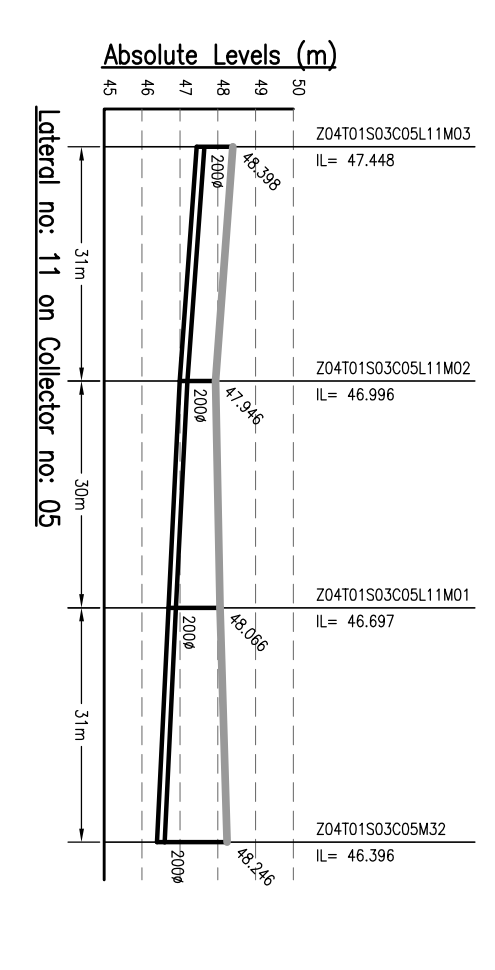
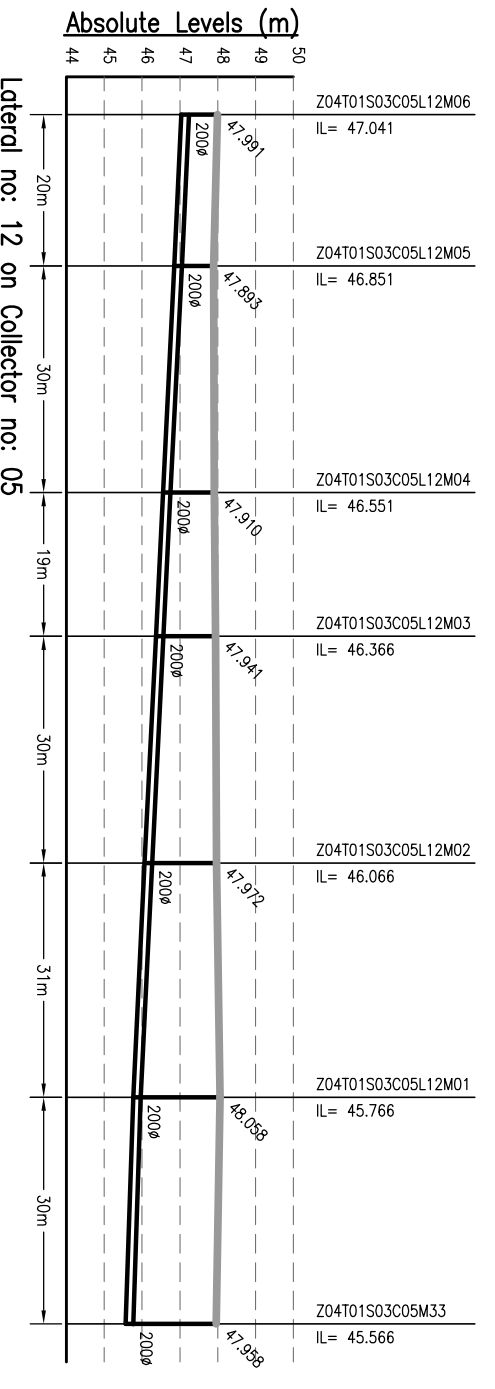
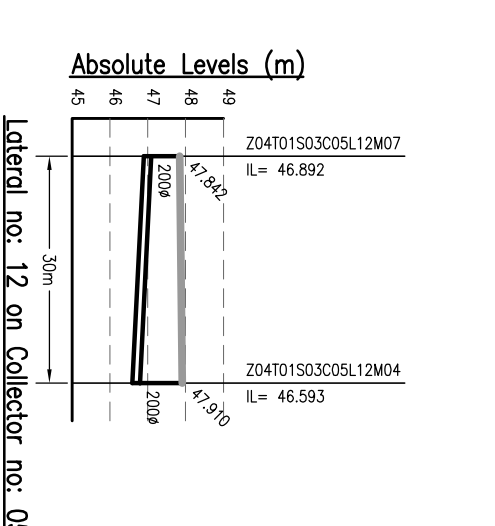
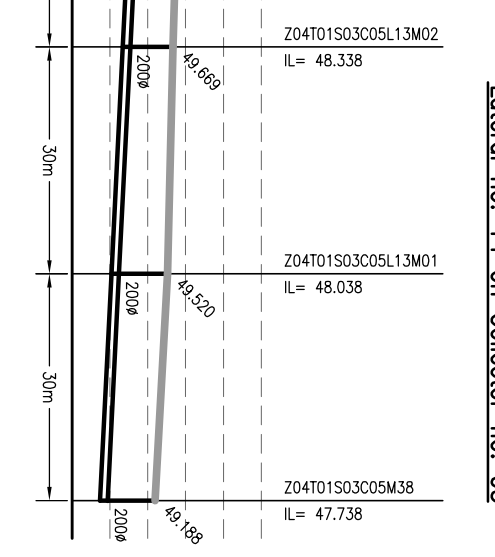
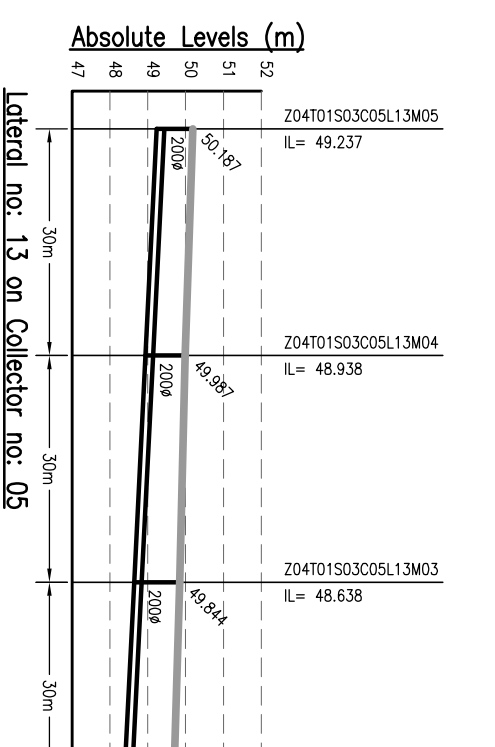
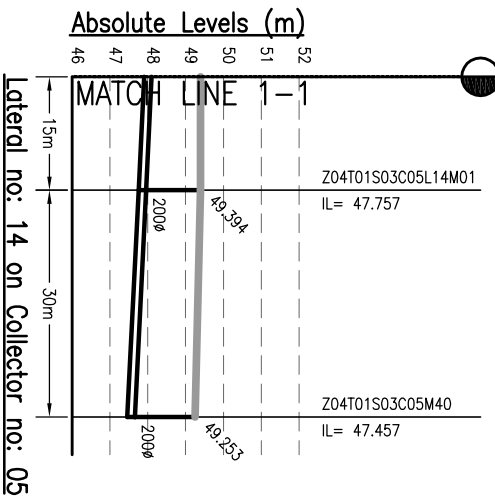
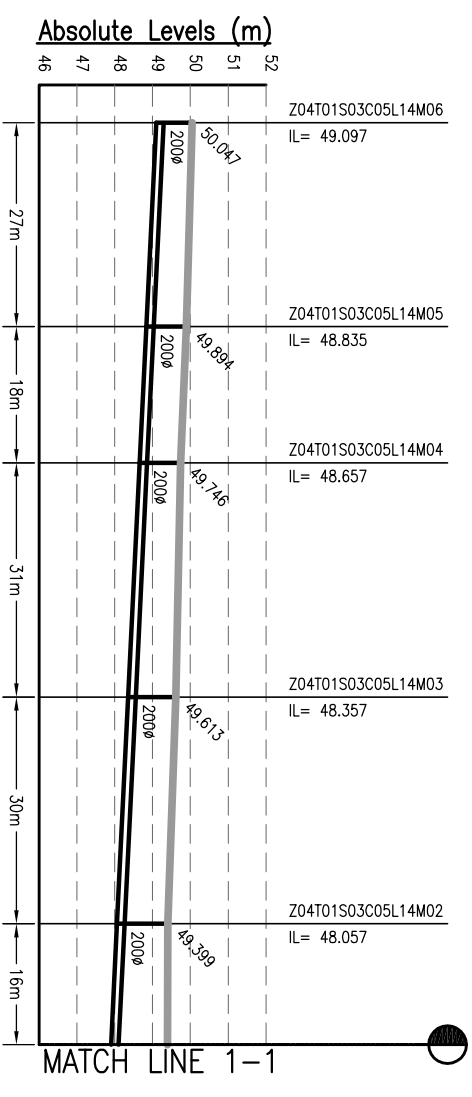
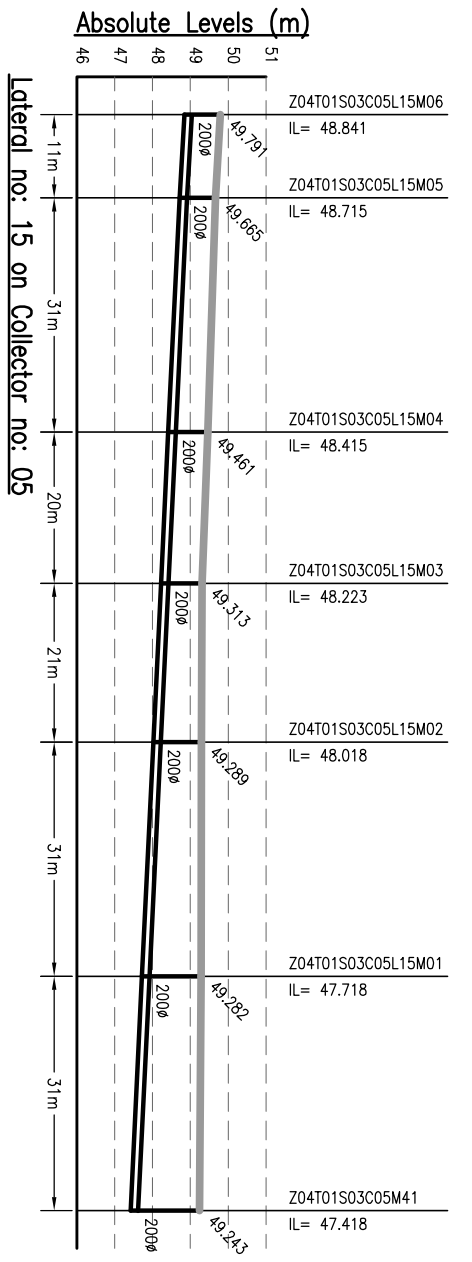
DRAWING NO.

Z4A-11-L-15

REVISION

00

Drawing Base Reference:-
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.



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Drawing Base Reference:-
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SNS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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CONSULTANT:-
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DRAWING TITLE
SEWERAGE L-SECTION OF LATERAL ZONE-4A, TRUNK-1 (SPS-B) (PART - 16 OF 16)

PURPOSE OF ISSUE
 DRAFT RETIRED PROJECT REPORT

SCALE
 H=1:1000, V=200

SHEET SIZE
 A3

NO.	DATE OF FIRST ISSUE
1	MAY 2013

NO.	DATE	BY
1	MAY 2013	SNS
2	MAY 2013	JR

CHECKED
 RP

APPROVED
 RP

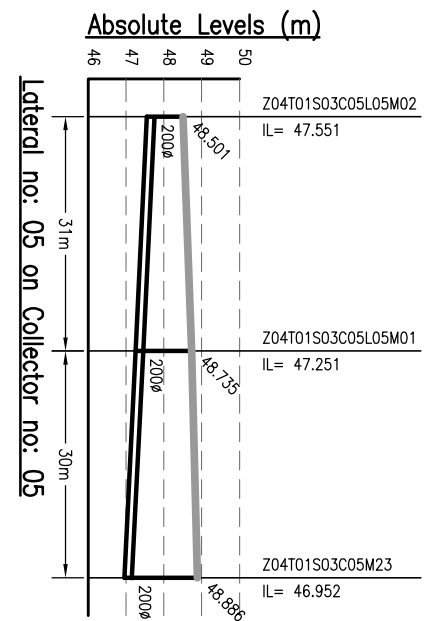
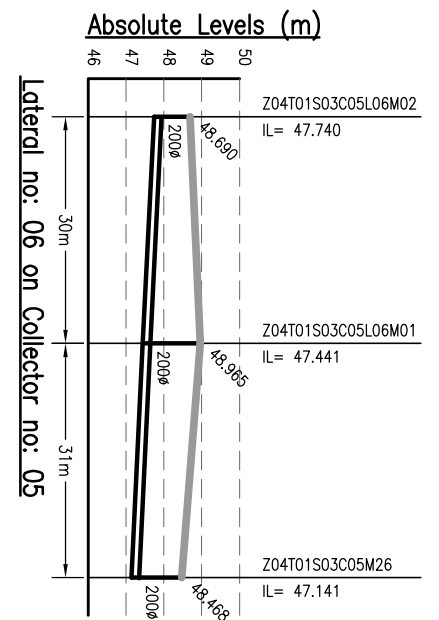
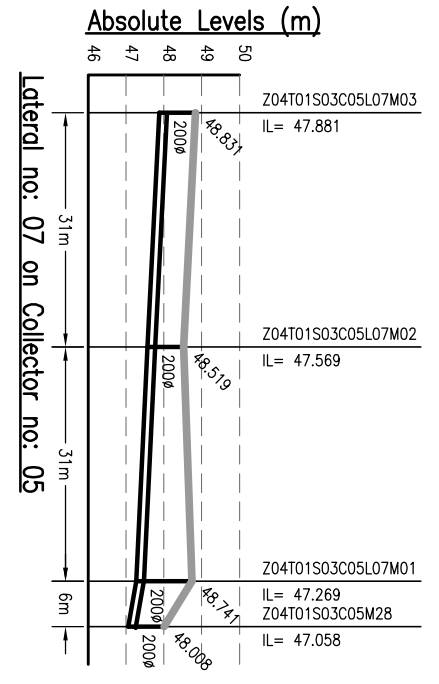
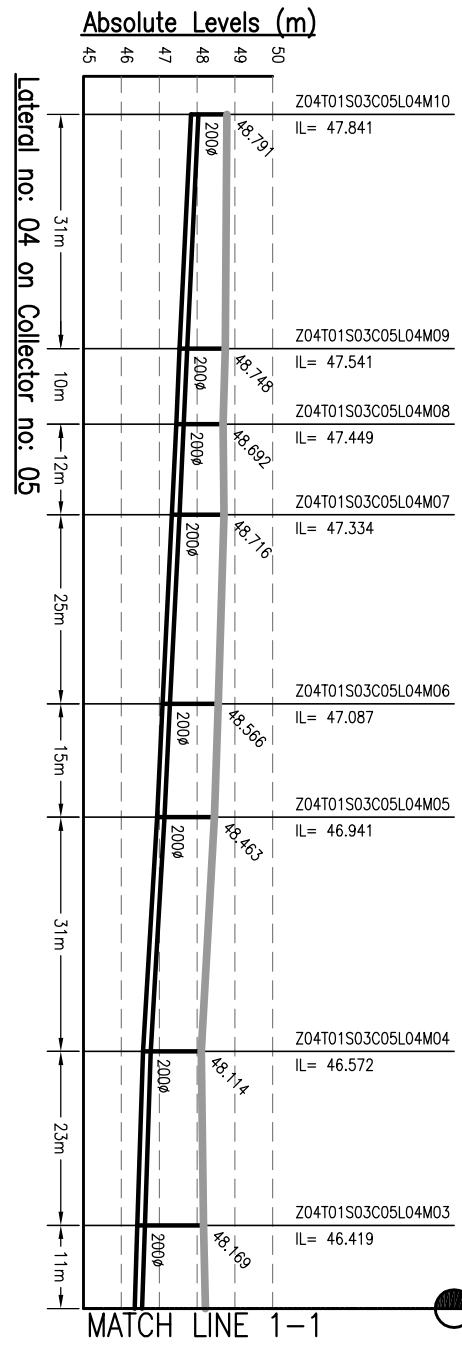
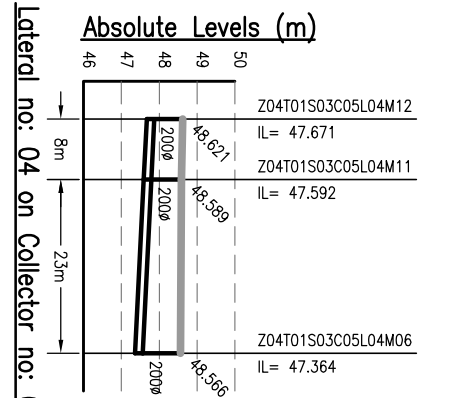
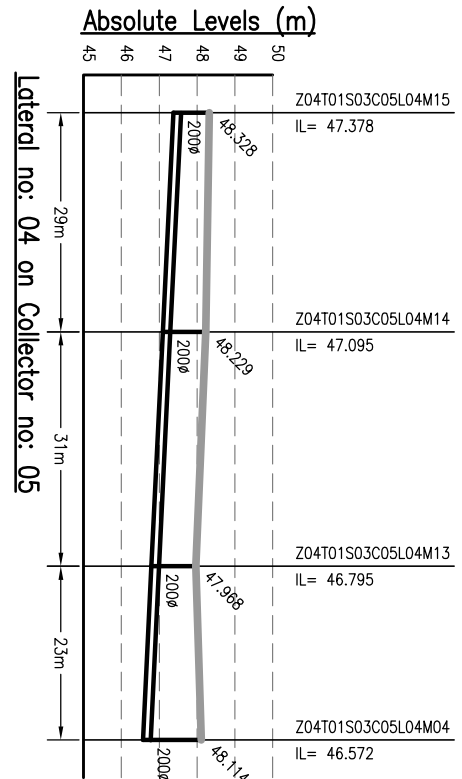
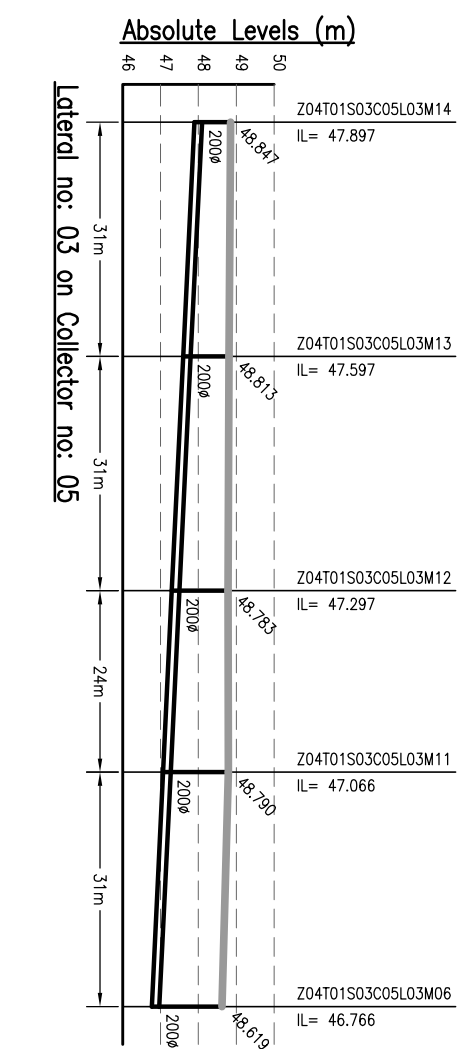
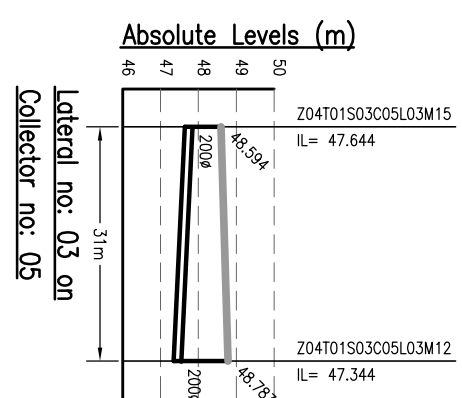
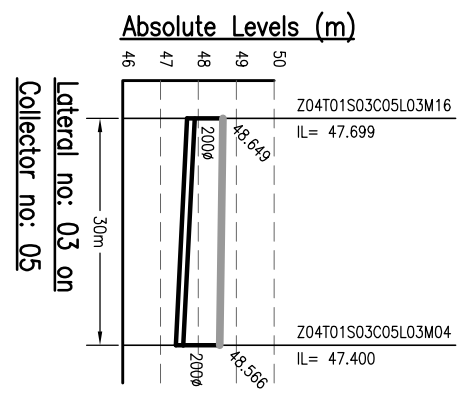
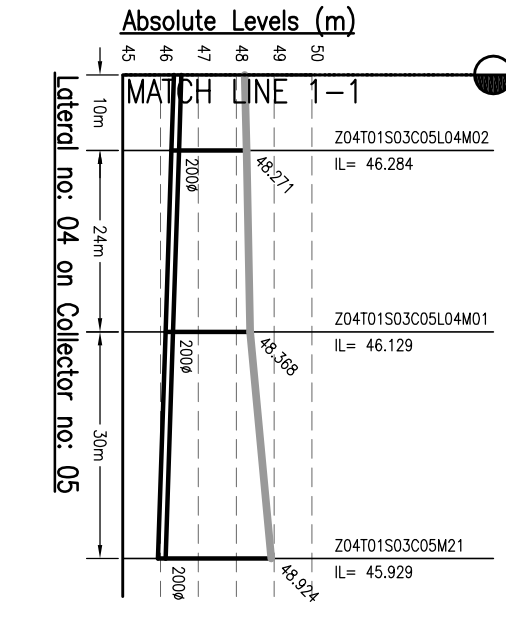
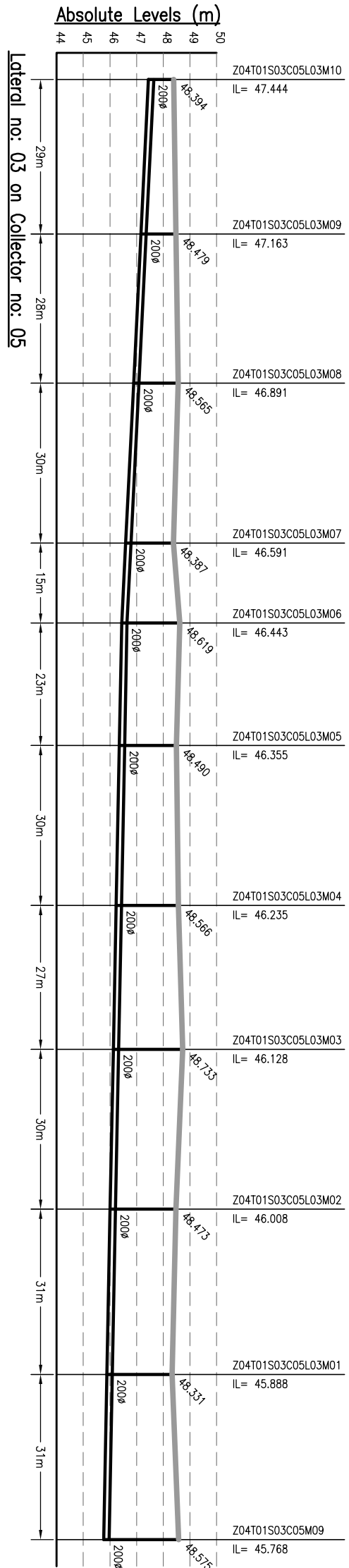
DATE
 MAY 2013

JOB NO.
 1092.01

DISCIPLINE
 PH

DRAWING NO.
 Z4A-T1-L-16

REVISION
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Drawing Base Reference:
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP

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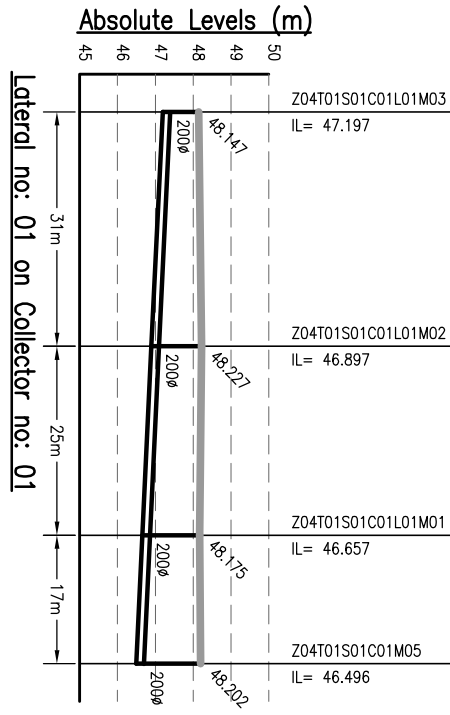
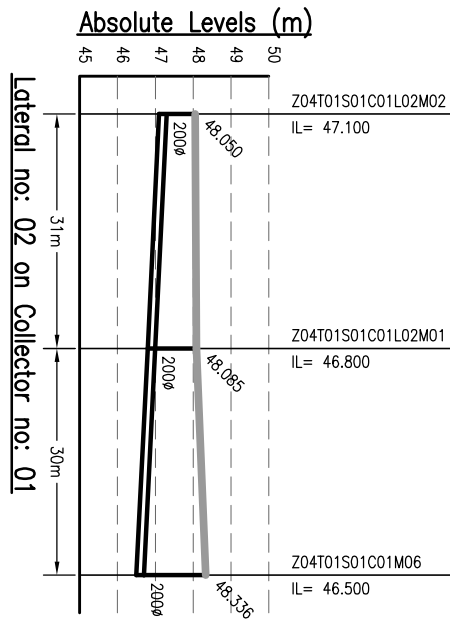
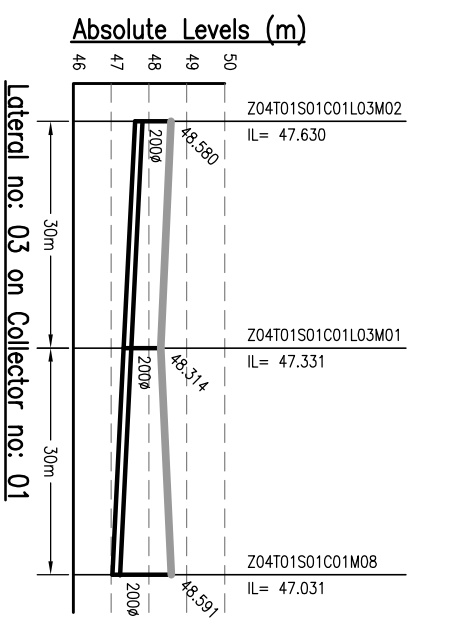
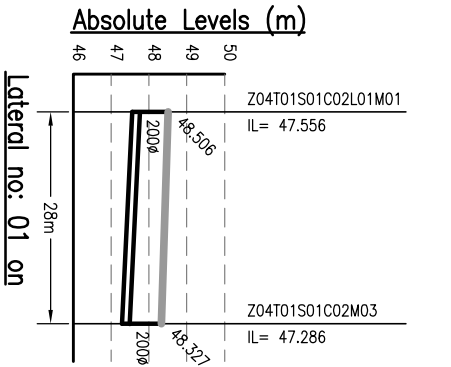
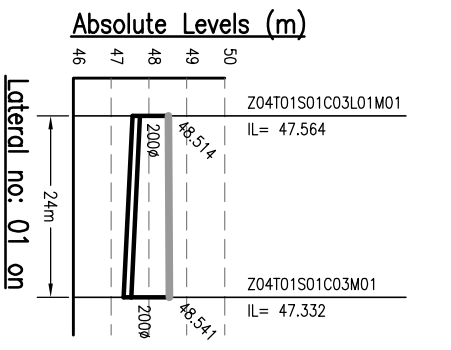
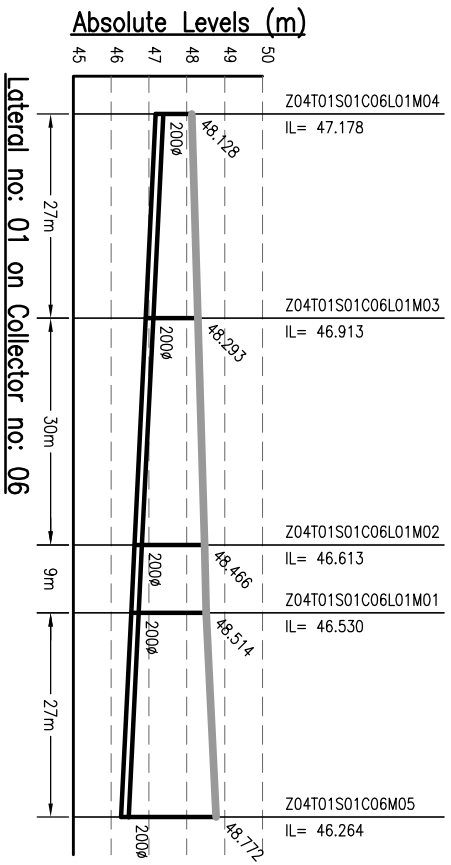
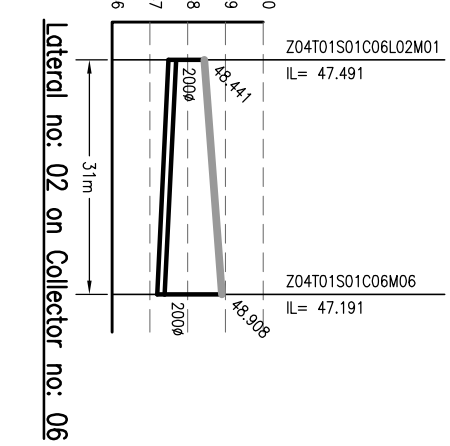
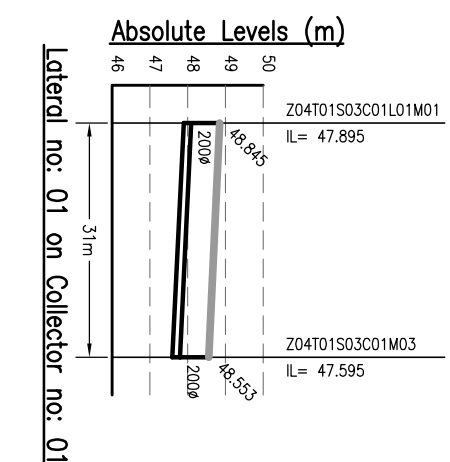
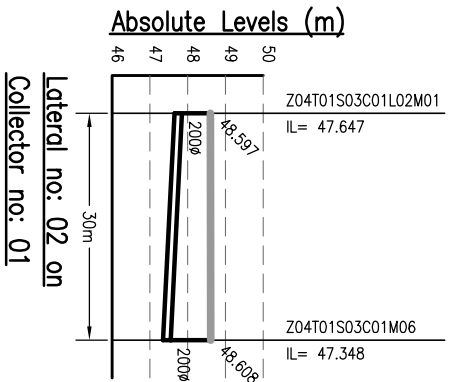
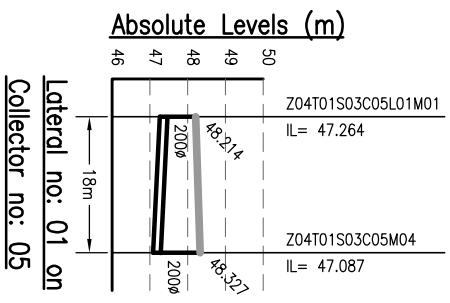
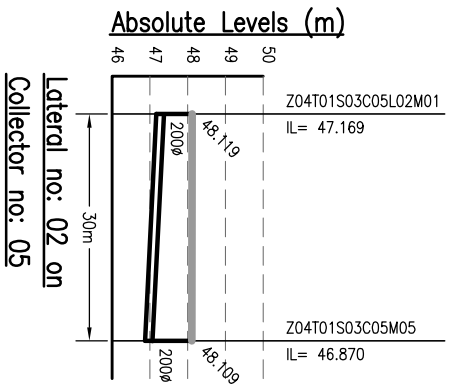
**PREPARATION OF DETAILED
 PROJECT REPORTS (DPRs) & BID
 DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION &
 QUALITY CONTROL OF SEWERAGE &
 DRAINAGE PROJECTS OF PATNA
 UNDER JNNURM**

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DRAWING TITLE
SEWERAGE
L-SECTION OF LATERAL
ZONE-4A, TRUNK-1 (SPS-B)
 (PART - 17 OF 18)

DISCIPLINE	DATE OF FIRST ISSUE	SCALE
PH	MAY 2013	H=1000, V=200

JOB NO.	DISCIPLINE	DRAWING NO.	REVISION
1092.01	PH	Z4A-11-L-17	00



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Drawing Base Reference:-
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

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 Website: www.uidc.co.in

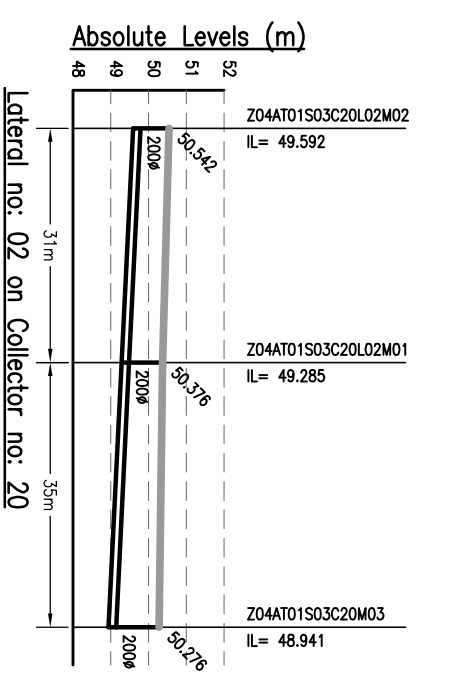
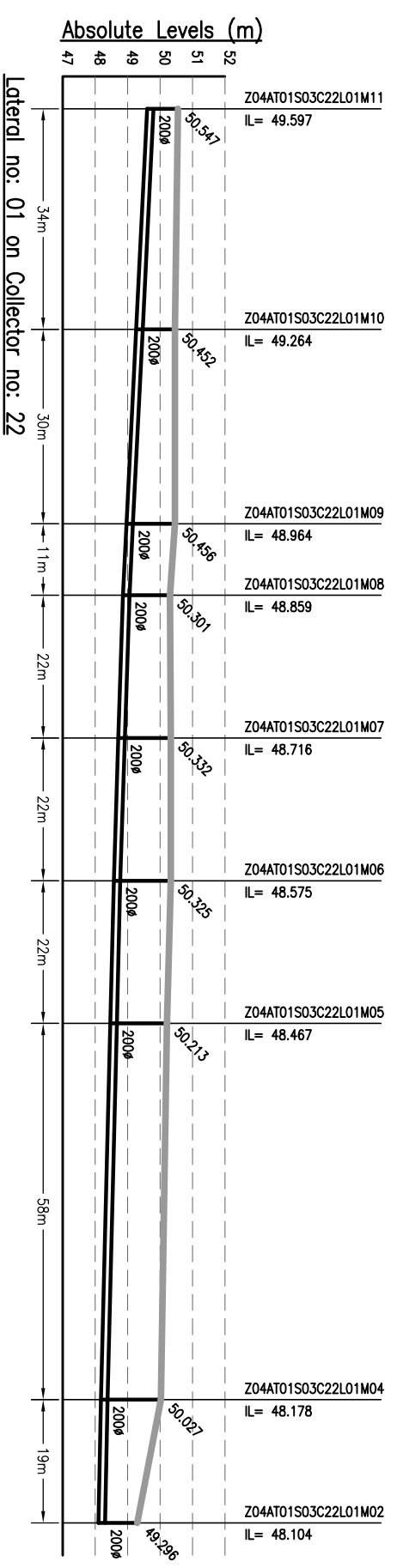
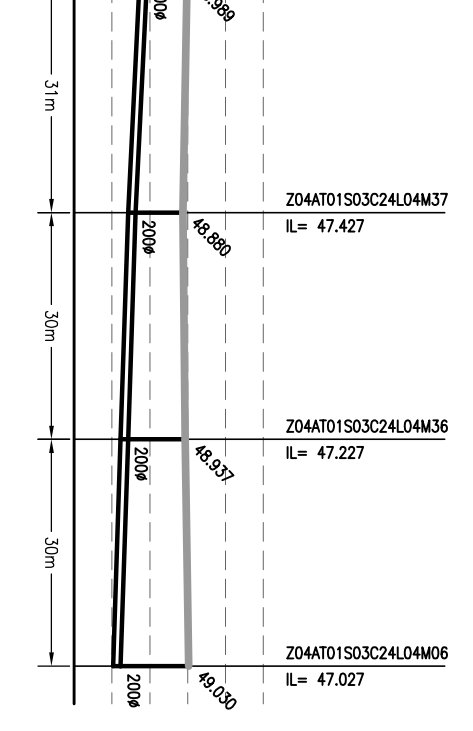
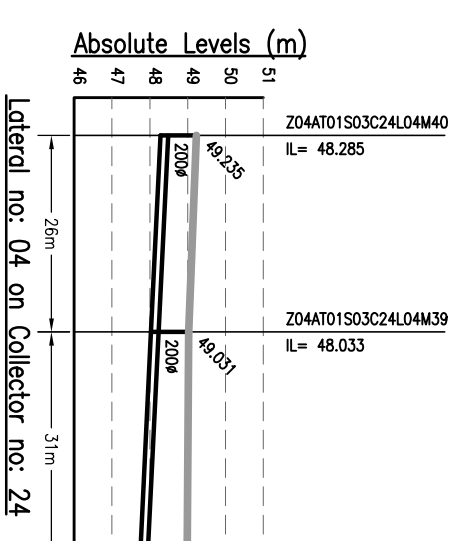
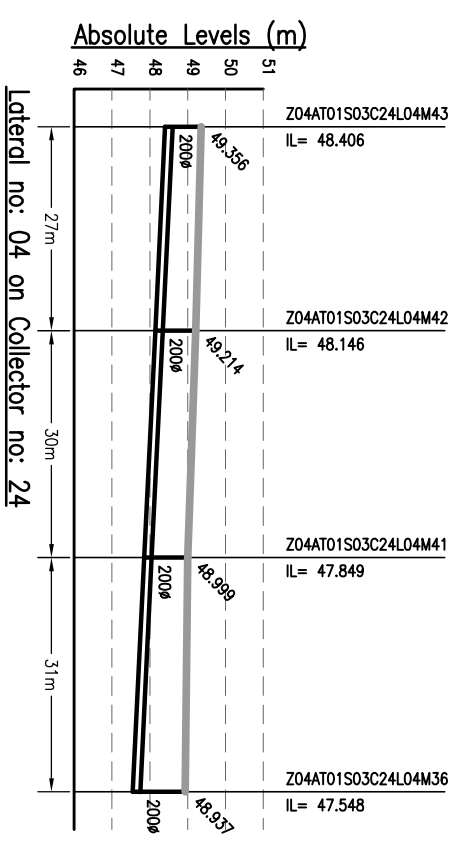
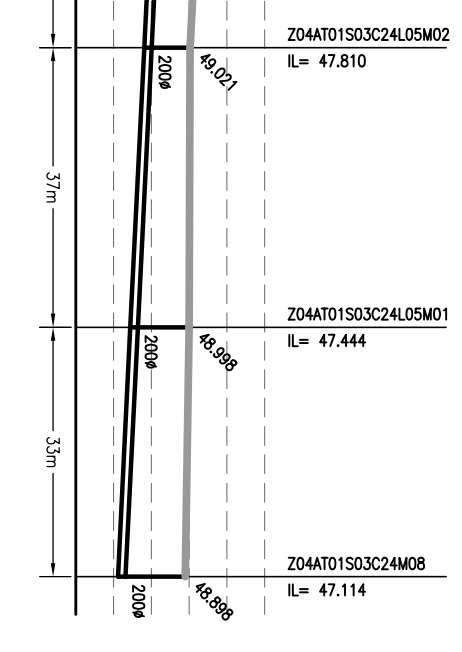
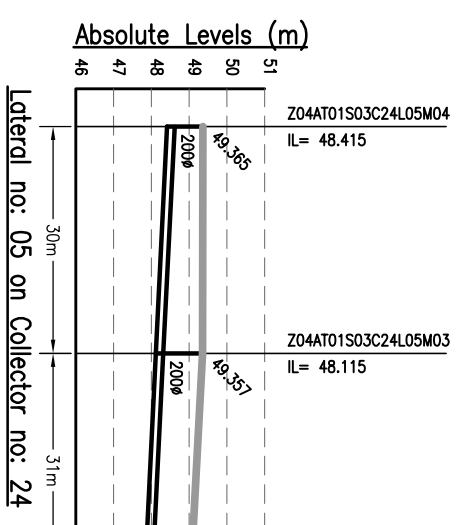
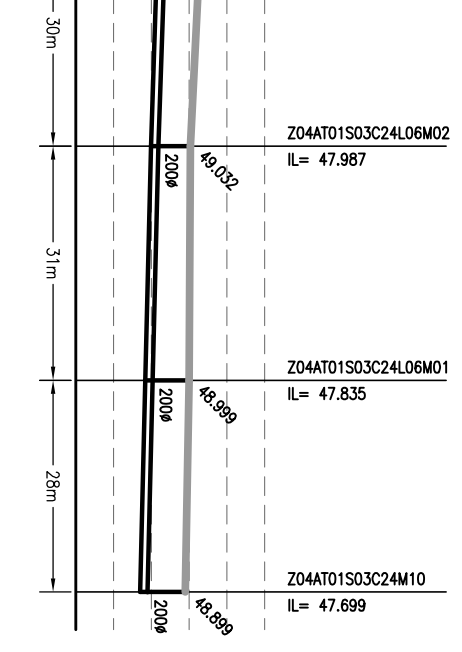
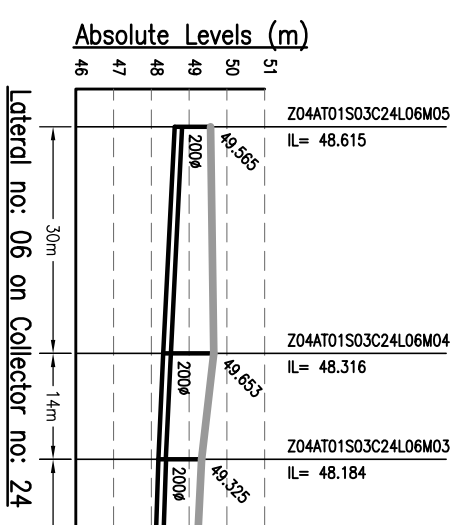
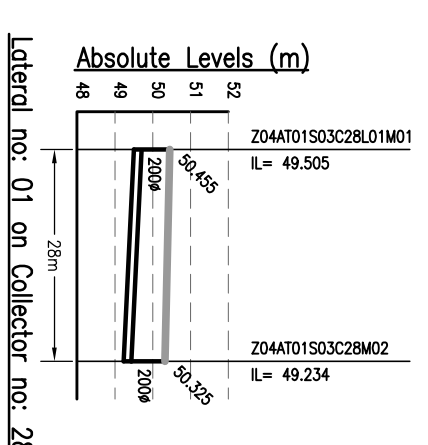
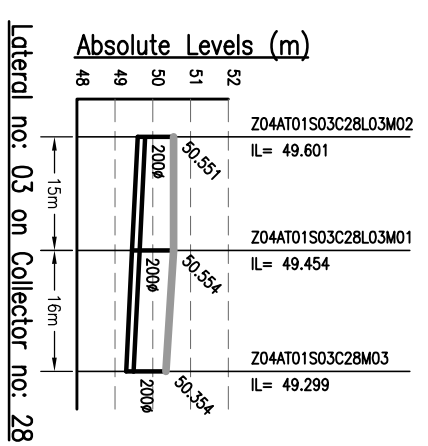
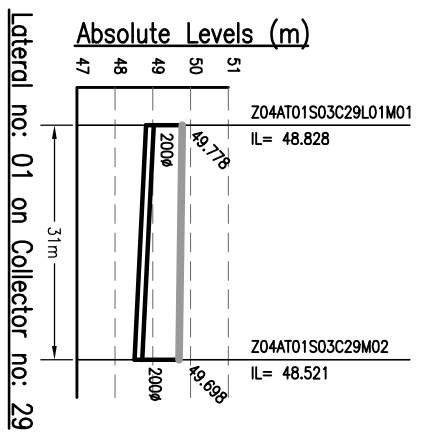
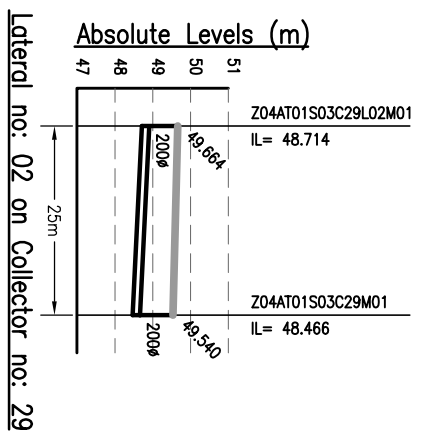
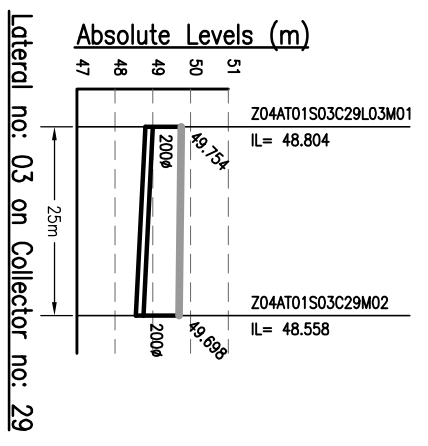
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SEWERAGE L-SECTION OF LATERAL ZONE-4A, TRUNK-1 (SPS-B) (PART - 18 OF 18)

SEWERAGE L-SECTION OF LATERAL ZONE-4A, TRUNK-1 (SPS-B) (PART - 18 OF 18)
 SCALE: H-1000, V-200
 SHEET SIZE: A3

DISCIPLINE	DATE OF FIRST ISSUE	DATE OF THIS ISSUE
DRAWN	SKS	MAY 2013
DESIGNED	JR	MAY 2013
CHECKED	RP	MAY 2013
APPROVED	CRR	MAY 2013

JOB NO.	DISCIPLINE	DRAWING NO.	REVISION
1092.01	PH	Z4A-T1-L-18	00

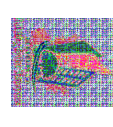


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Drawing Base Reference:
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REV	DATE	NAME	DESCRIPTION	CHKD
00	SEP'13	AH	ISSUED FOR DPR	RP

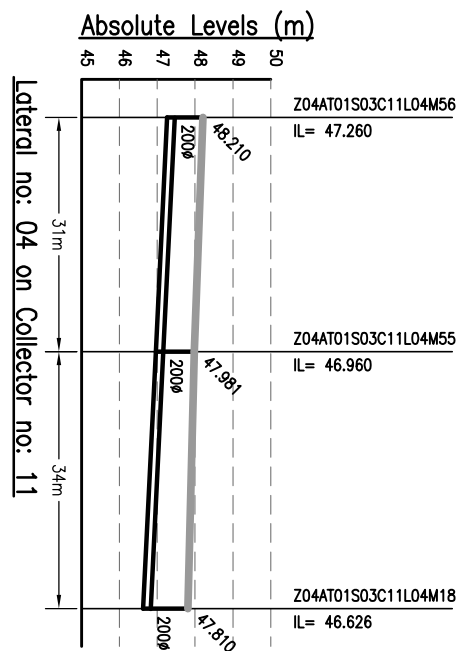
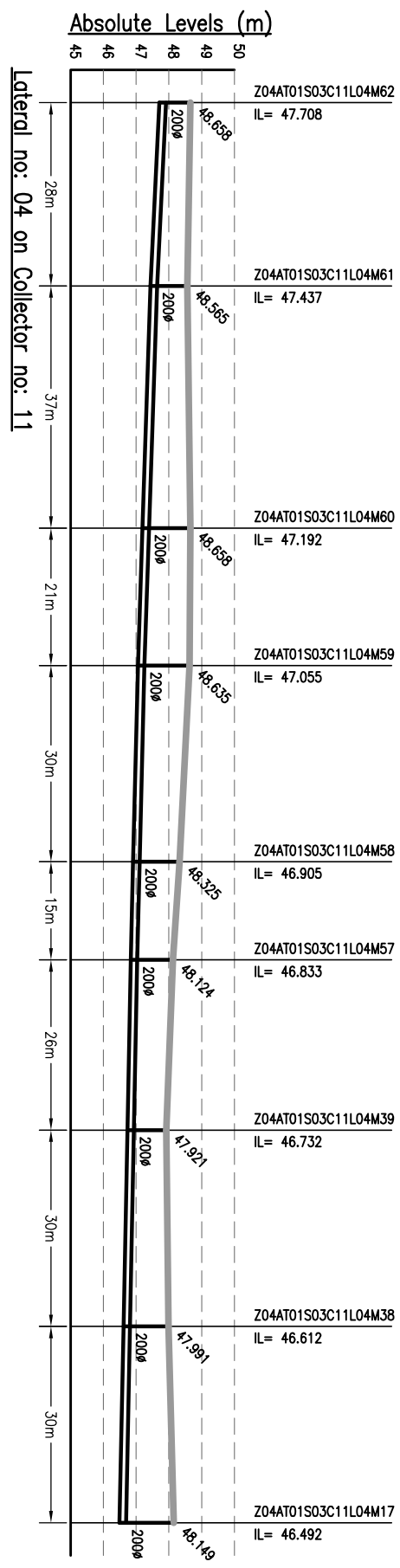
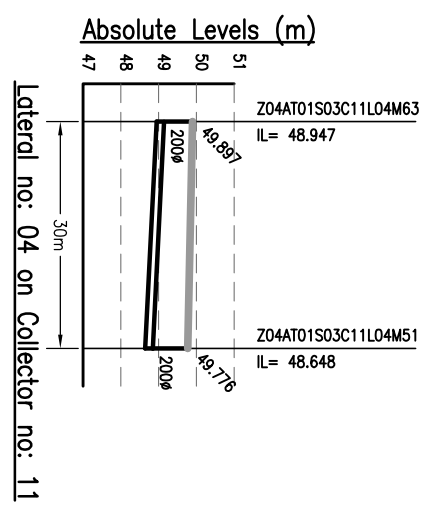
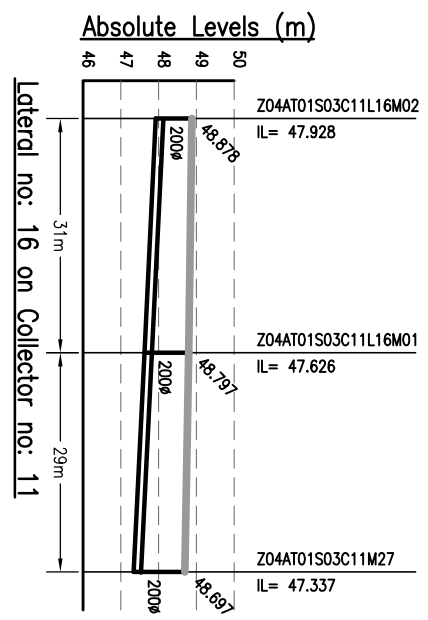
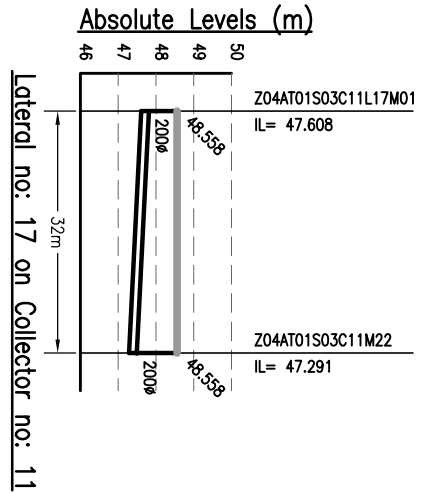
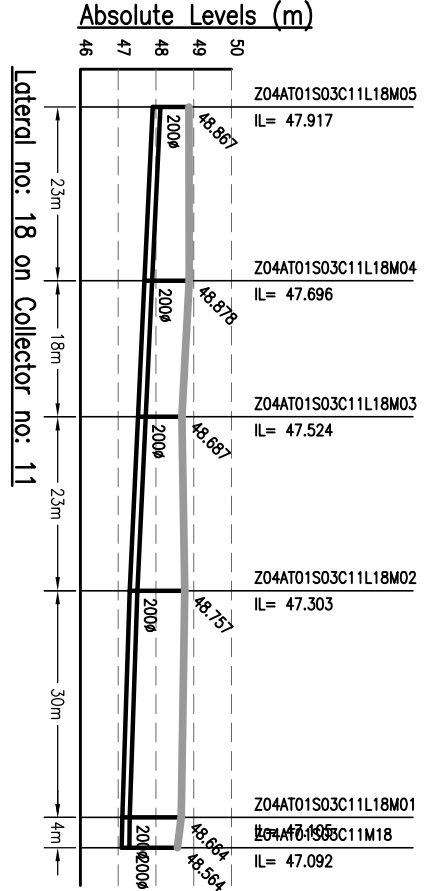
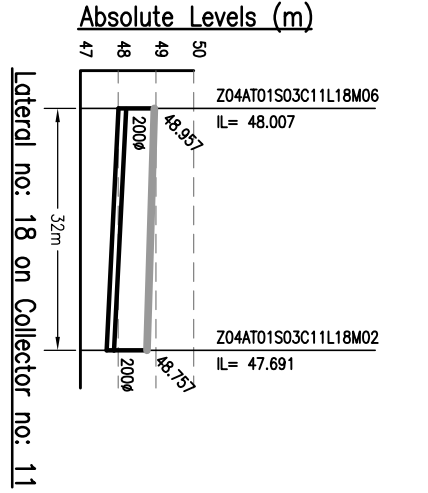
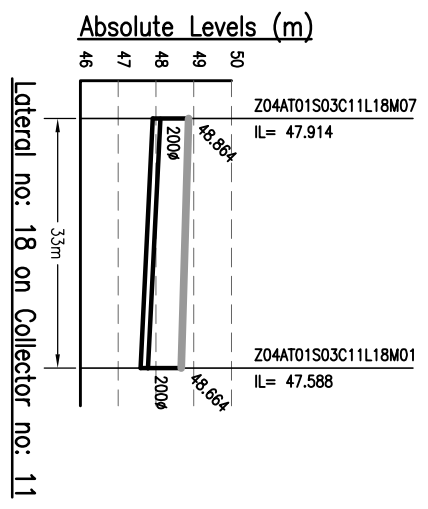
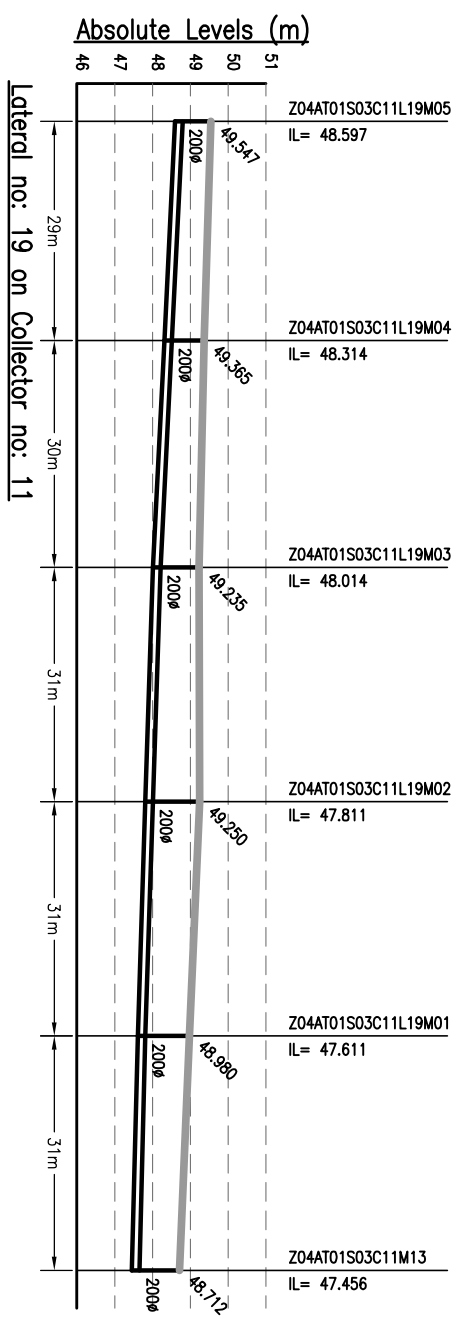
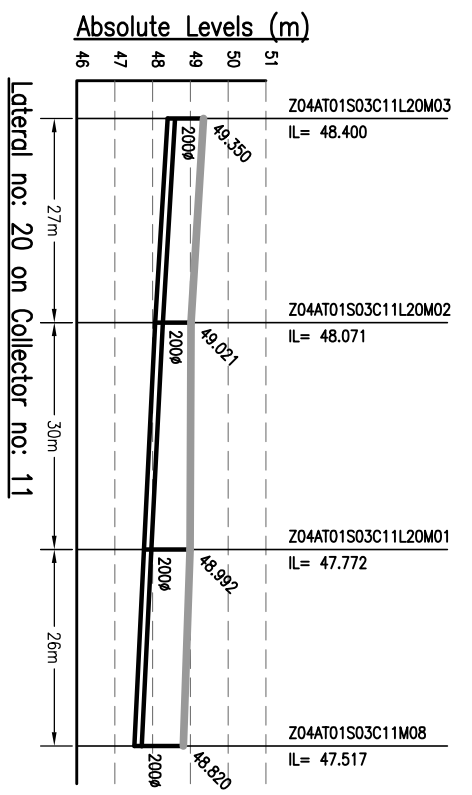
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 PROJECT:-
PREPARATION OF DETAILED PROJECT REPORTS (DPRs) & BID DOCUMENTS;
TENDERING FOR EXECUTION; CONSTRUCTION FOR SUPERVISION & QUALITY CONTROL OF SEWERAGE PROJECTS OF PATNA UNDER NGRBA

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DRAWING TITLE		SCALE: H-1000, V-200	
SEWERAGE L-SECTION OF LATERAL ZONE-4A, TRUNK-1 (PAHARI STP) (PART - 19 OF 23)			
PURPOSE OF ISSUE		SHEET SIZE: A3	
DETAILED PROJECT REPORT (SEWERAGE)		DATE OF FIRST ISSUE	
DRAWN BY	AH	DATE	SEPTEMBER 2013
DESIGNED BY	JR	DATE	SEPTEMBER 2013
CHECKED BY	RP	DATE	SEPTEMBER 2013
APPROVED BY	CR	DATE	SEPTEMBER 2013
JOB NO.	DISCIPLINE	DRAWING NO.	REVISION
1092.01	PH	Z4A-T1-L-19	00



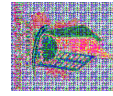
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Drawing Base Reference:
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REV	DATE	NAME	DESCRIPTION	CHKD
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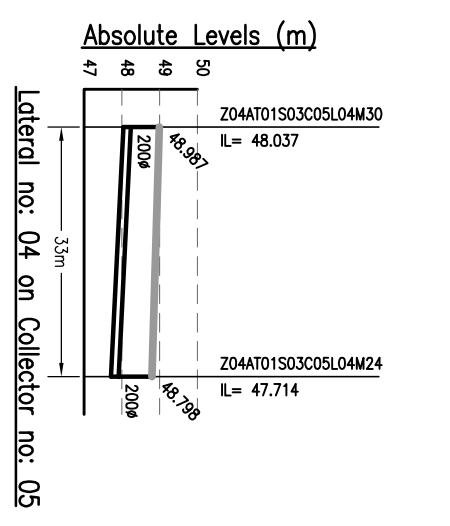
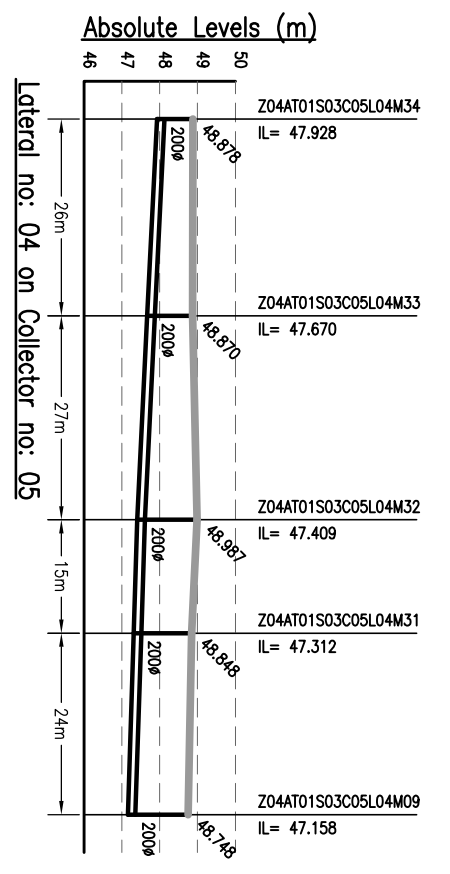
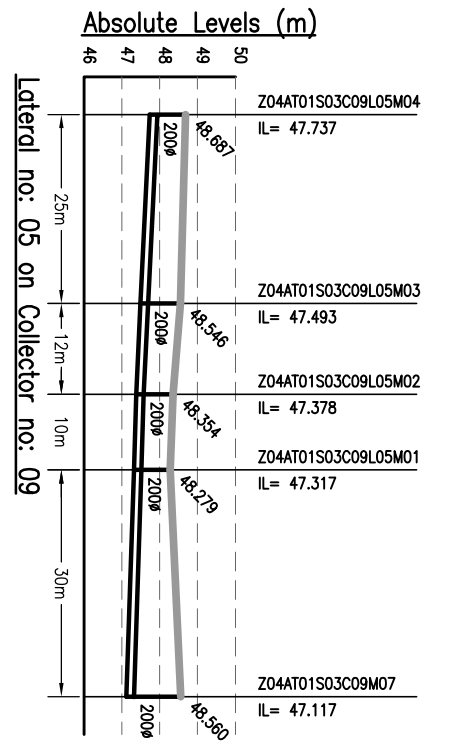
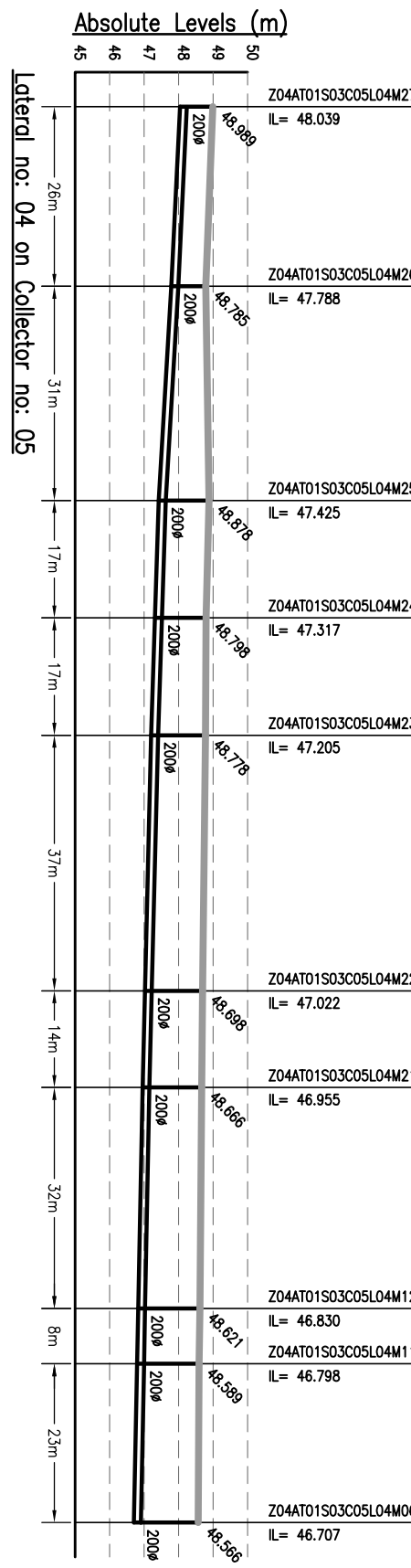
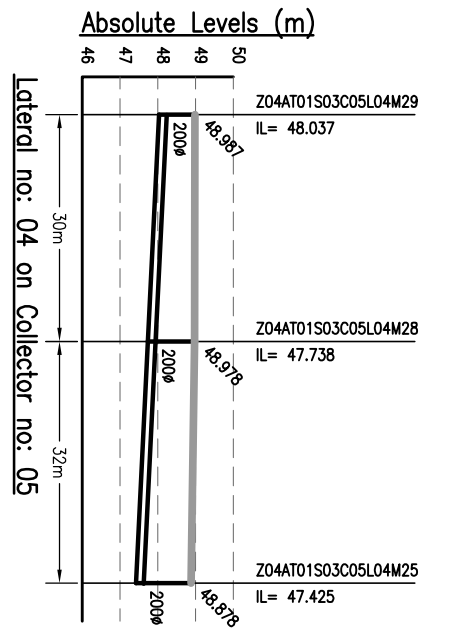
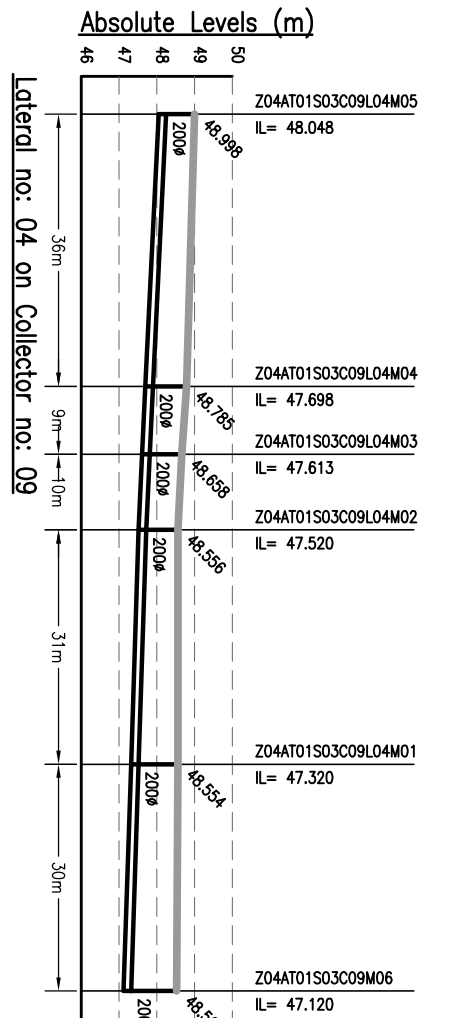
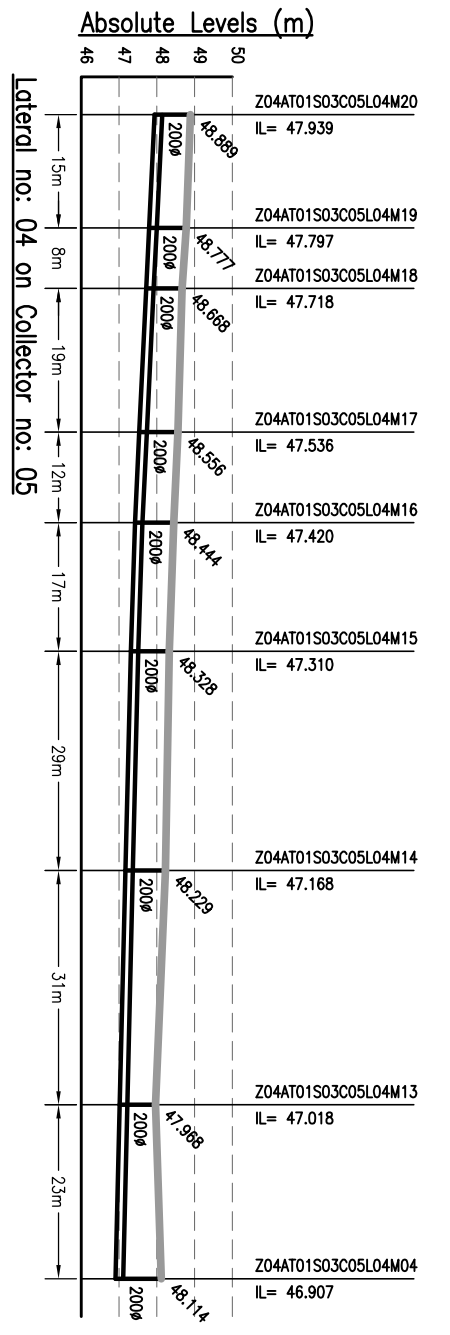
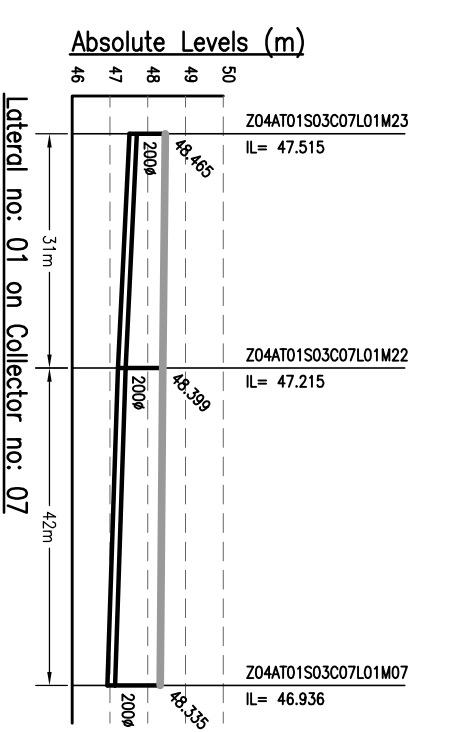
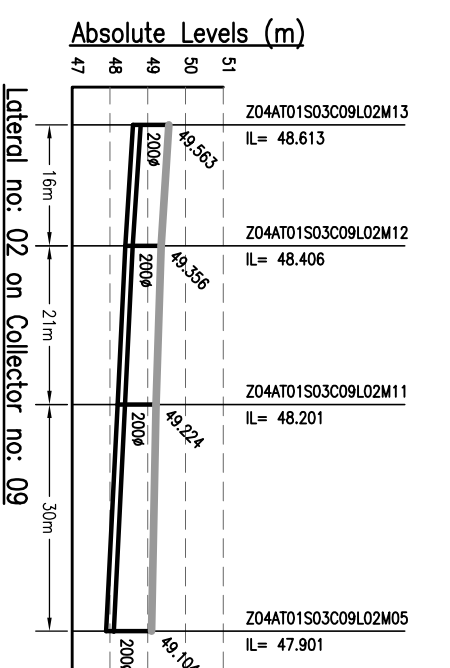
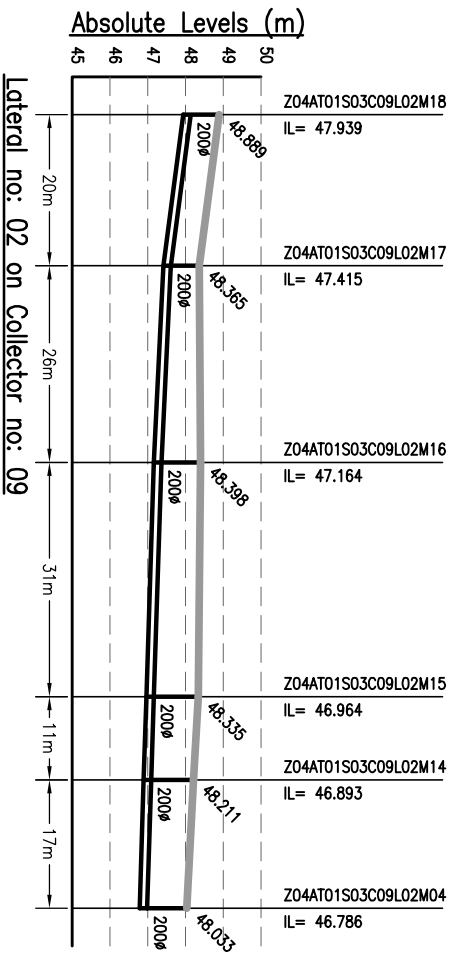


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PREPARATION OF DETAILED PROJECT REPORTS (DPRs) & BID DOCUMENTS;
TENDERING FOR EXECUTION;
CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE PROJECTS OF PATNA UNDER NGRBA

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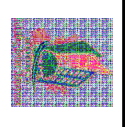
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L-SECTION OF LATERAL		ZONE-4A, TRUNK-1 (PAHARI STP)	
(PART - 20 OF 23)			
PURPOSE OF ISSUE	SCALE: H-1000, V-200	SHEET SIZE: A3	DATE OF FIRST ISSUE
DETAILED PROJECT REPORT (SEWERAGE)			
DRAWN BY	AH	SEPTEMBER 2013	
DESIGNED BY	JR	SEPTEMBER 2013	
CHECKED BY	CR	SEPTEMBER 2013	
APPROVED BY	CR	SEPTEMBER 2013	
JOB NO.	DISCIPLINE	DRAWING NO.	REVISION
1092.01	PH	Z4A-T1-L-20	00



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Drawing Base Reference:
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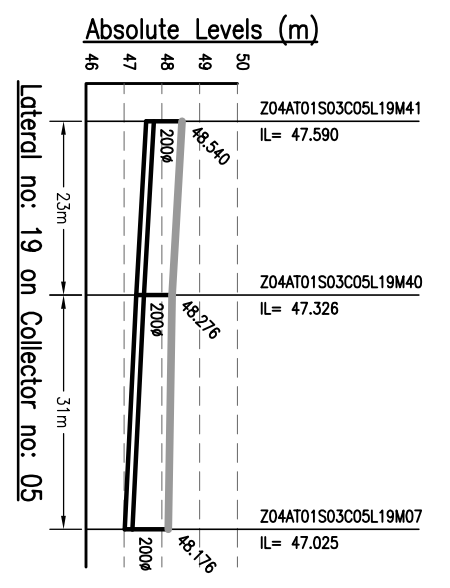
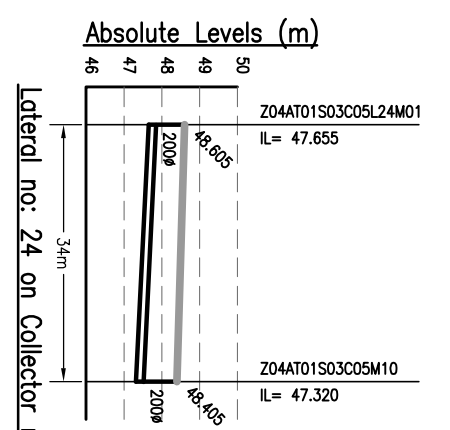
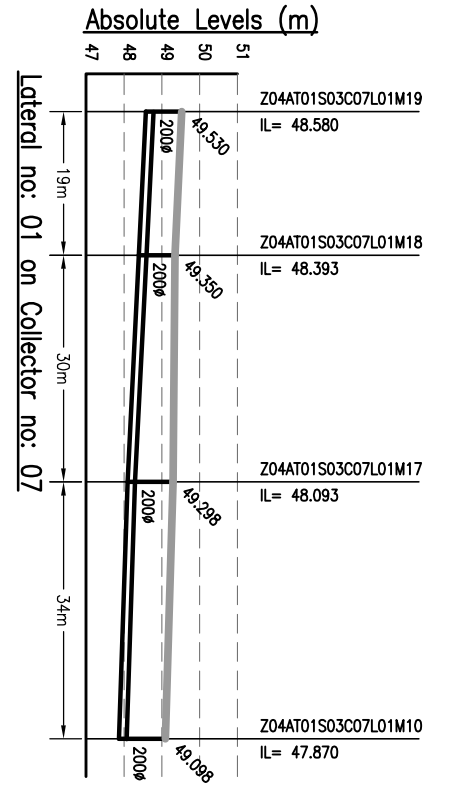
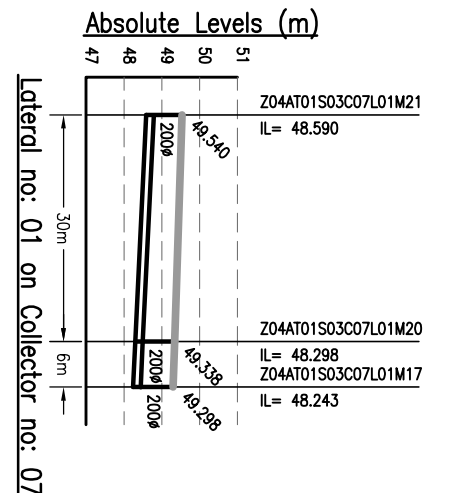
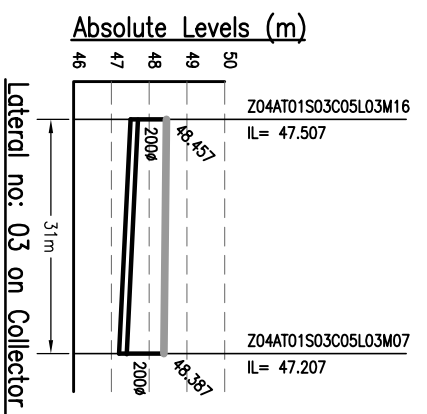
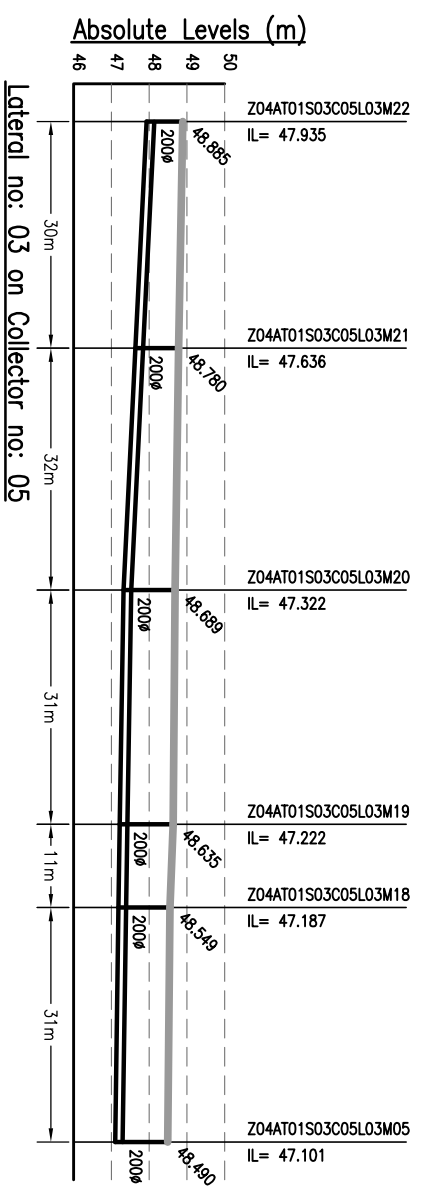
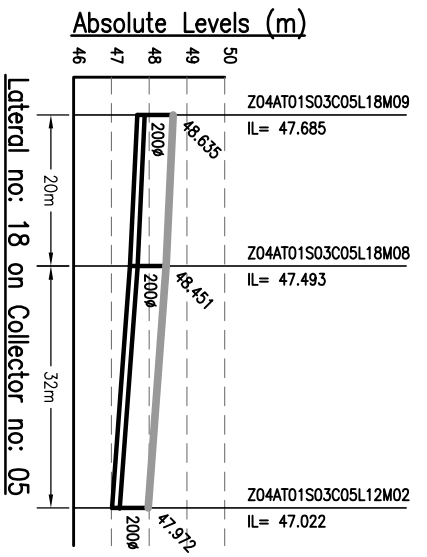
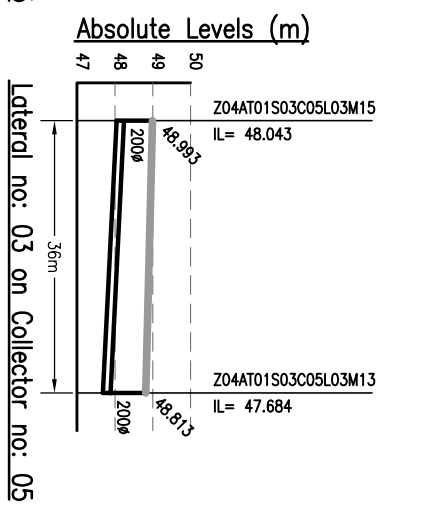
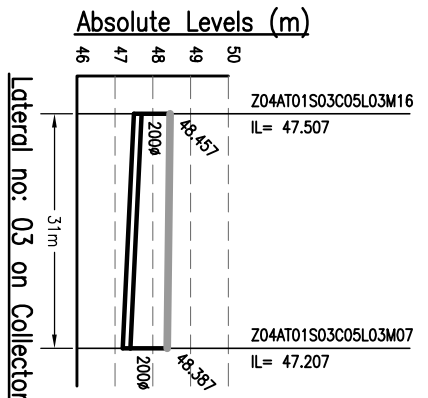
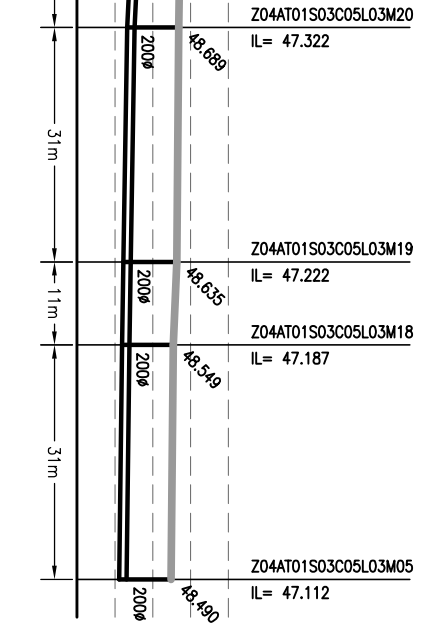
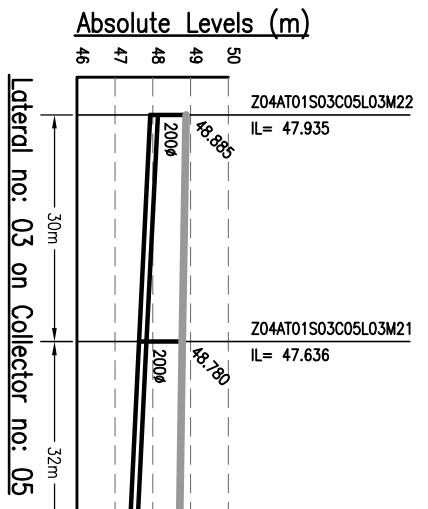
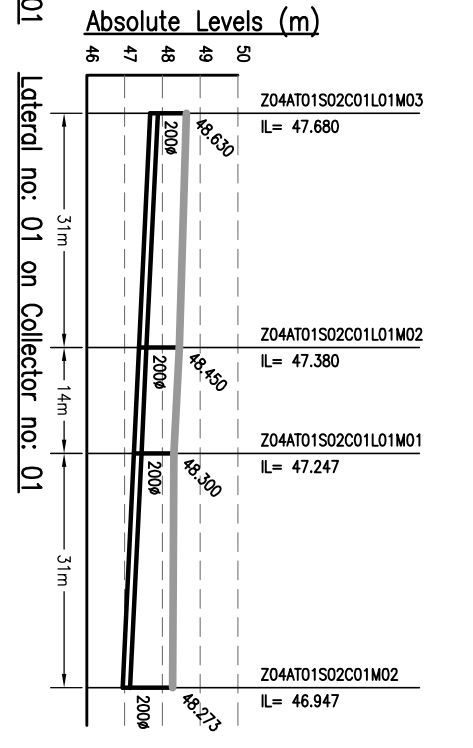
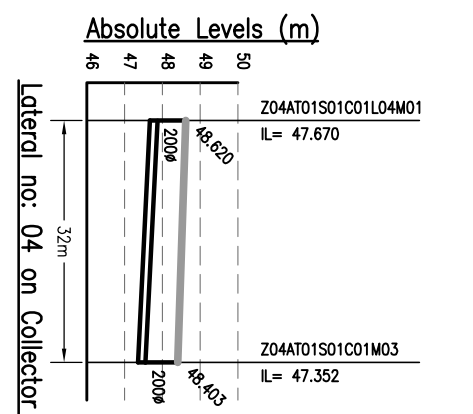
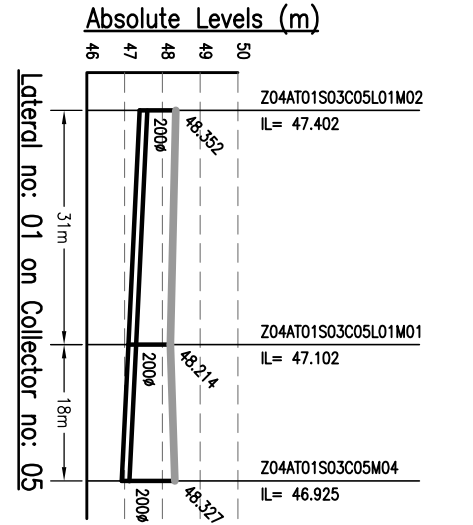
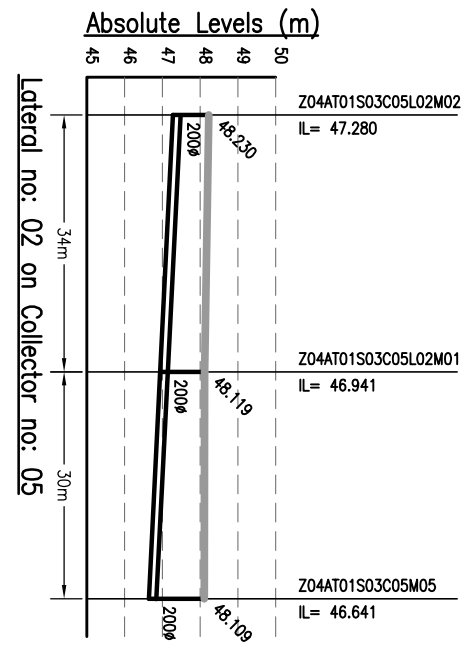
REV	DATE	NAME	DESCRIPTION	CHKD
00	SEP'13	AH	ISSUED FOR DPR	RP



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 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE PROJECTS OF PATNA UNDER NGRBA

CONSULTANT:-
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 www.meinhardtindia.com, Email:-info@meinhardtindia.com

DISCIPLINE	DATE OF FIRST ISSUE	DATE OF LAST ISSUE
DESIGNED	SEPTEMBER 2013	SEPTEMBER 2013
CHECKED	SEPTEMBER 2013	SEPTEMBER 2013
APPROVED	SEPTEMBER 2013	SEPTEMBER 2013
JOB NO.	1092.01	
DISCIPLINE	PH	
DRAWING NO.	Z4A-T1-L-21	
REVISION	00	

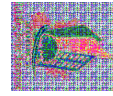


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Drawing Base Reference:
 PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	SEP'13	AH	ISSUED FOR DPR	RP

AMENDMENTS



MEINHARDT
 URBAN INFRASTRUCTURE DEVELOPMENT CORPORATION
 BIHAR

PREPARATION OF DETAILED PROJECT REPORTS (DPRs) & BID DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE PROJECTS OF PATNA UNDER NGRBA

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DRAWING NO.	1092.01	PH	Z4A-T1-L-22	00
DISCIPLINE	SEWERAGE	DATE OF FIRST ISSUE	SEPTEMBER 2013	
APPROVED	RP	DATE OF SECOND ISSUE	SEPTEMBER 2013	
CHECKED	RP	DATE OF THIRD ISSUE	SEPTEMBER 2013	
DESIGNED	RP	DATE OF FOURTH ISSUE	SEPTEMBER 2013	
DRAWN	AH	DATE OF FIFTH ISSUE	SEPTEMBER 2013	

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Drawing Base Reference:-
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV/	DATE	NAME	DESCRIPTION	CHKD
00	SEP'13	AH	ISSUED FOR DPR	RP

AMENDMENTS

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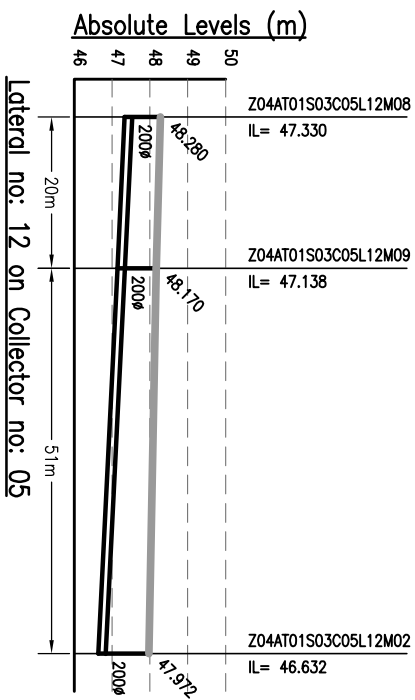
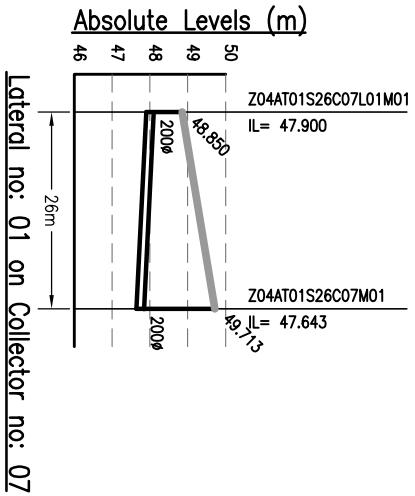


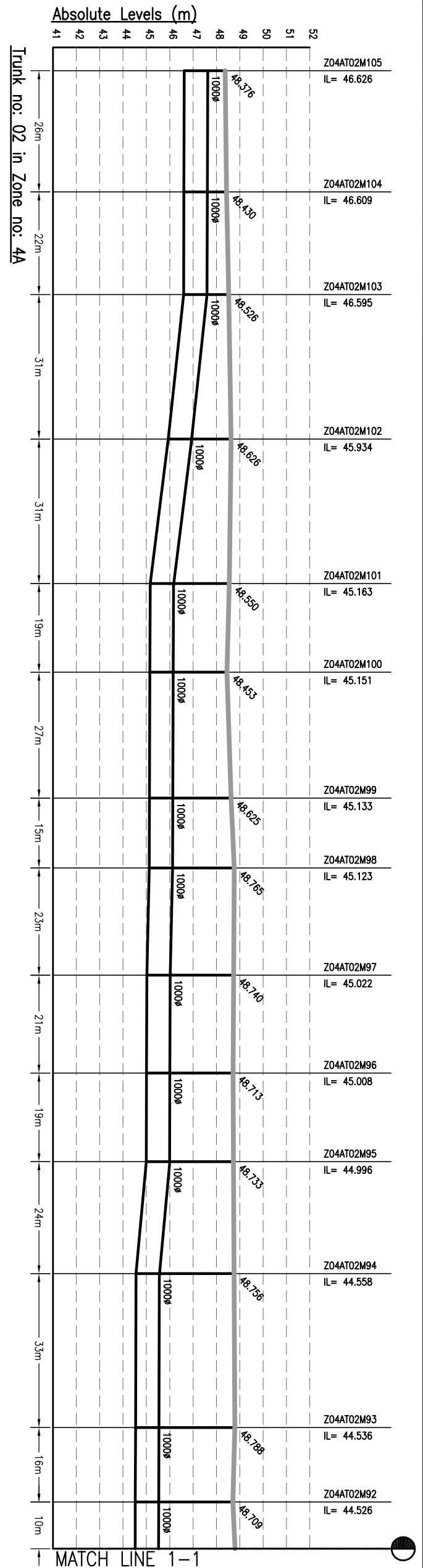
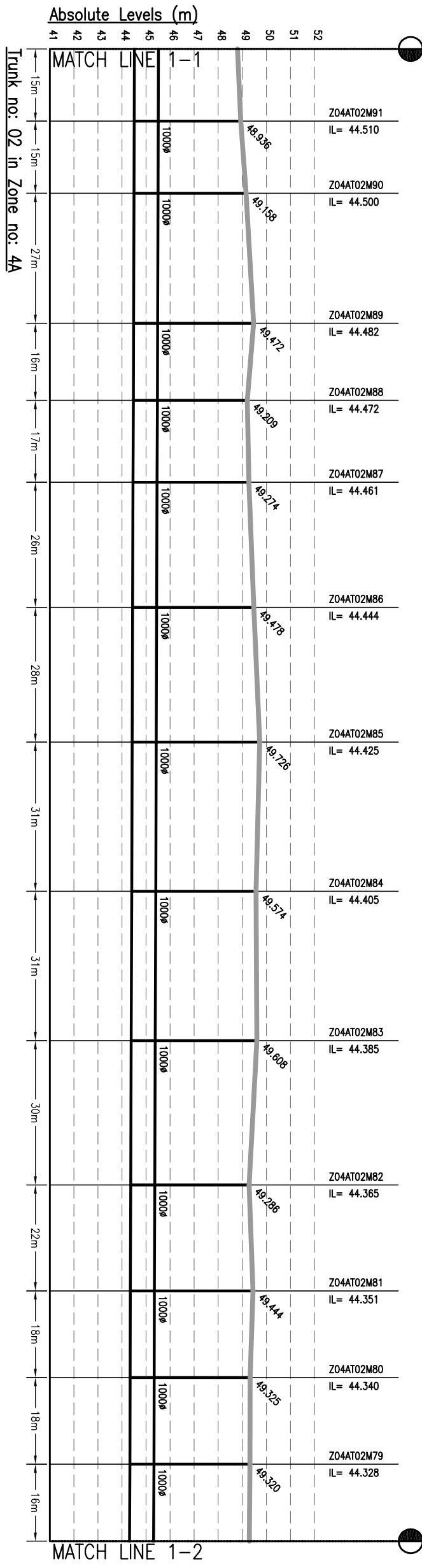
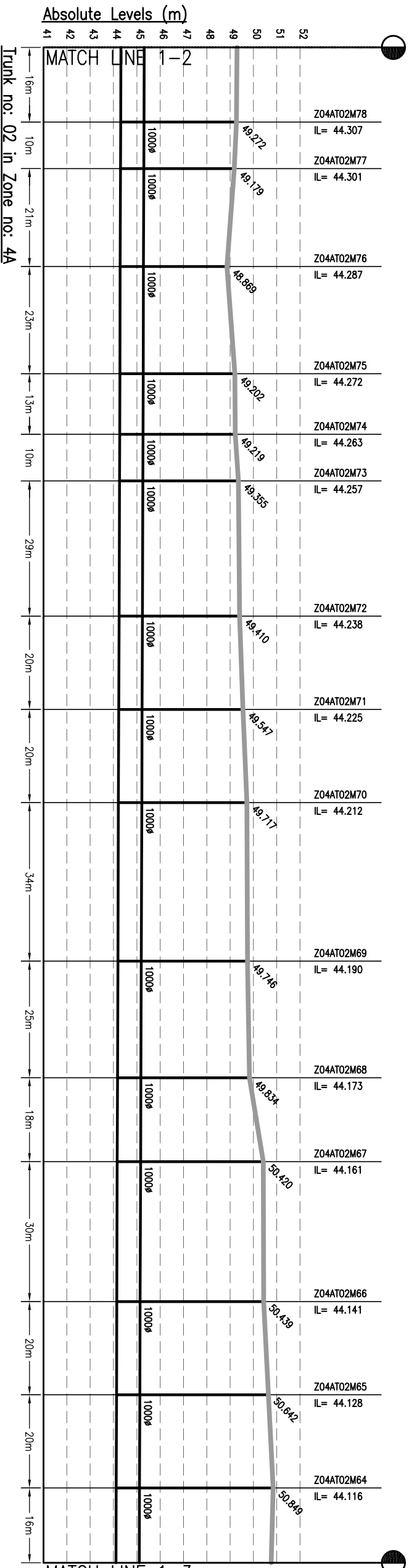
CLIENT:-
BIHAR
URBAN INFRASTRUCTURE
DEVELOPMENT CORPORATION

CONSULTANT:-
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DRAWING TITLE
SEWERAGE
L-SECTION OF LATERAL
ZONE-4A, TRUNK-1 (PAHARI STP)
 (PART - 23 OF 23)

PURPOSE OF ISSUE (SEWERAGE)	SCALE	SHEET SIZE	DATE OF FIRST ISSUE
BY	H-1000, V-200	A3	
DRAWN	AH		SEPTEMBER 2013
DESIGNED	JR		SEPTEMBER 2013
CHECKED	RP		SEPTEMBER 2013
APPROVED	CRR		SEPTEMBER 2013
JOB NO.	DISCIPLINE	DRAWING NO.	REVISION
10922.01	PH	Z4A-T1-L-23	00





MATCH LINE 1-3
FOR CONT. REFER DRG. NO. 1092.01-PH-Z4A-T2-02

NOTES:-

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Drawing Base Reference:
PHC WORK ORDER 3489, DATED 15 DECEMBER 2009.

AMENDMENTS

REV	DATE	NAME	DESCRIPTION	CHKD
00	SEP'13	AH	ISSUED FOR DPR	RP

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CLIENT:-
URBAN INFRASTRUCTURE DEVELOPMENT CORPORATION
BIHAR

PROJECT:-
PREPARATION OF DETAILED PROJECT REPORTS (DPRs) & BID DOCUMENTS;
TENDERING FOR EXECUTION; CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE PROJECTS OF PATNA UNDER NGRBA

CONSULTANT:-
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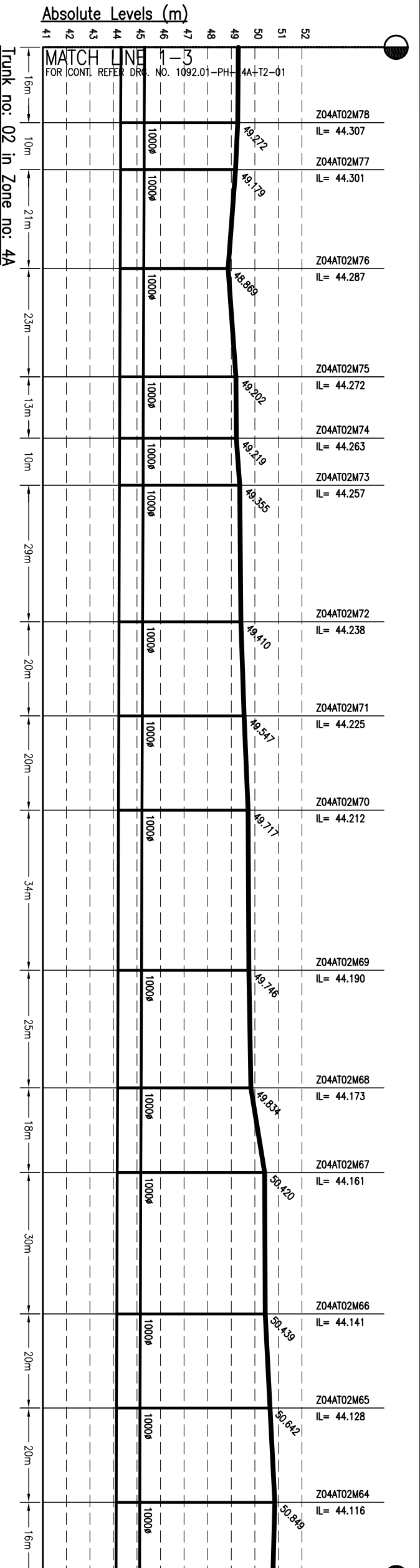
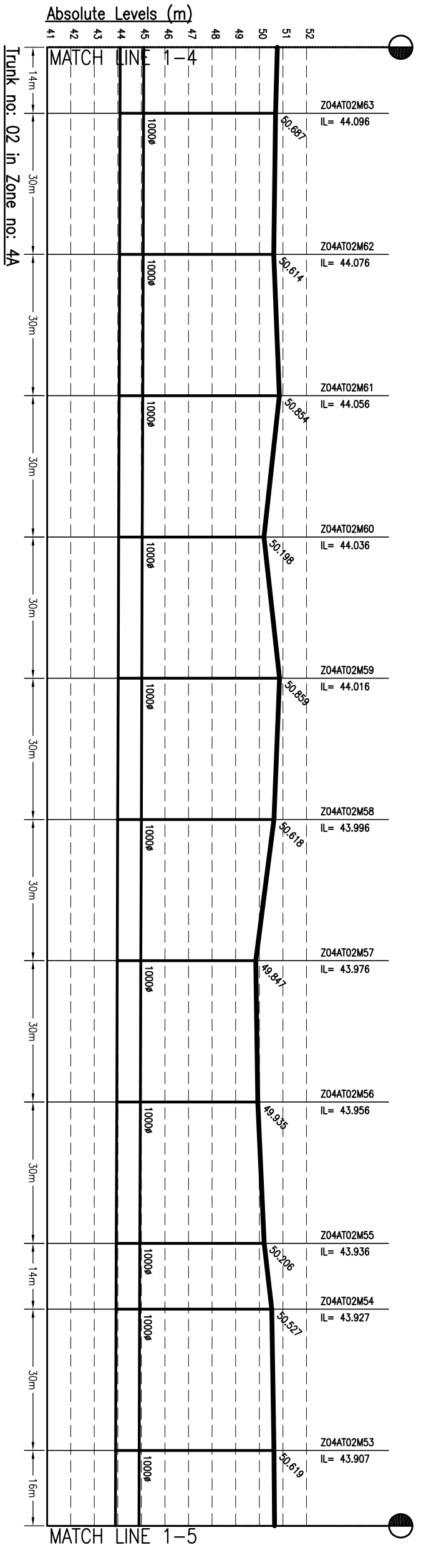
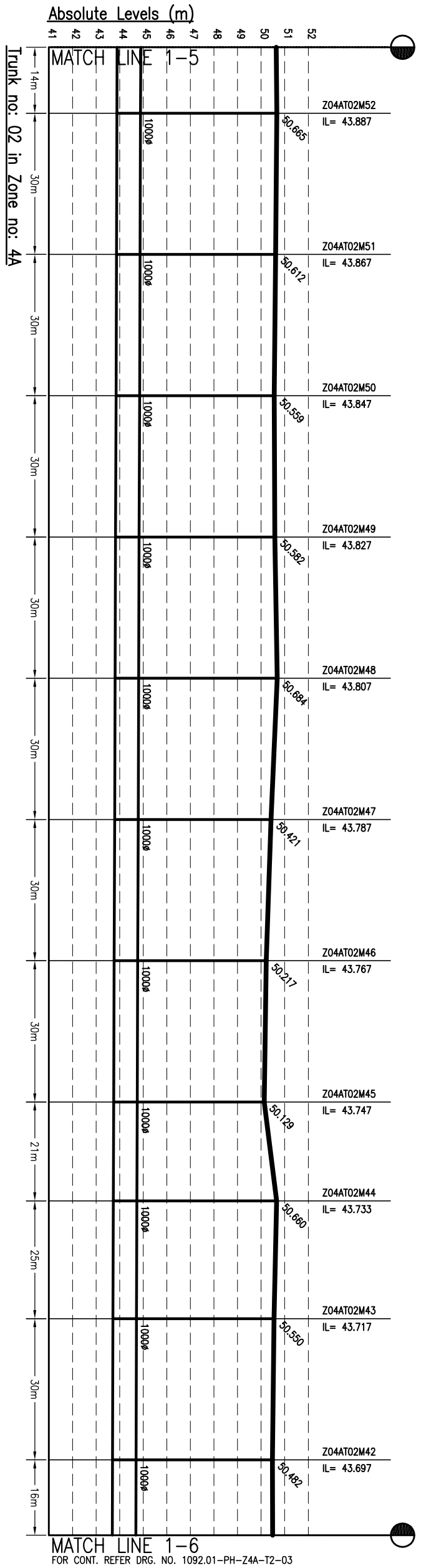
DRAWING TITLE
SEWERAGE
L-SECTION OF TRUNK
ZONE-4A, TRUNK-2 (PAHARI STP)

PURPOSE OF ISSUE
DETAILED PROJECT REPORT (SEWERAGE)
SCALE: H-1000, V-200
SHEET SIZE: A3

DRAWN BY: AH
CHECKED BY: JR
APPROVED BY: CR

DATE OF FIRST ISSUE SEPTEMBER 2013
DATE OF THIS ISSUE SEPTEMBER 2013

DISCIPLINE PH
DRAWING NO. Z4A-T2-T-01
REVISION 00



DATE PLOTTED: 06/12/2013 10:58:00 AM

CONTRACT NO.	1092.01
DISCIPLINE	PH
DRAWING NO.	Z4A-T2-1-02
REVISION	00

MEINHARDT
 URBAN INFRASTRUCTURE
 DEVELOPMENT CORPORATION
 BIHAR

PREPARATION OF DETAILED
 PROJECT REPORTS (DPRs) & BID
 DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION &
 QUALITY CONTROL OF SEWERAGE
 PROJECTS OF PATNA UNDER NGRBA

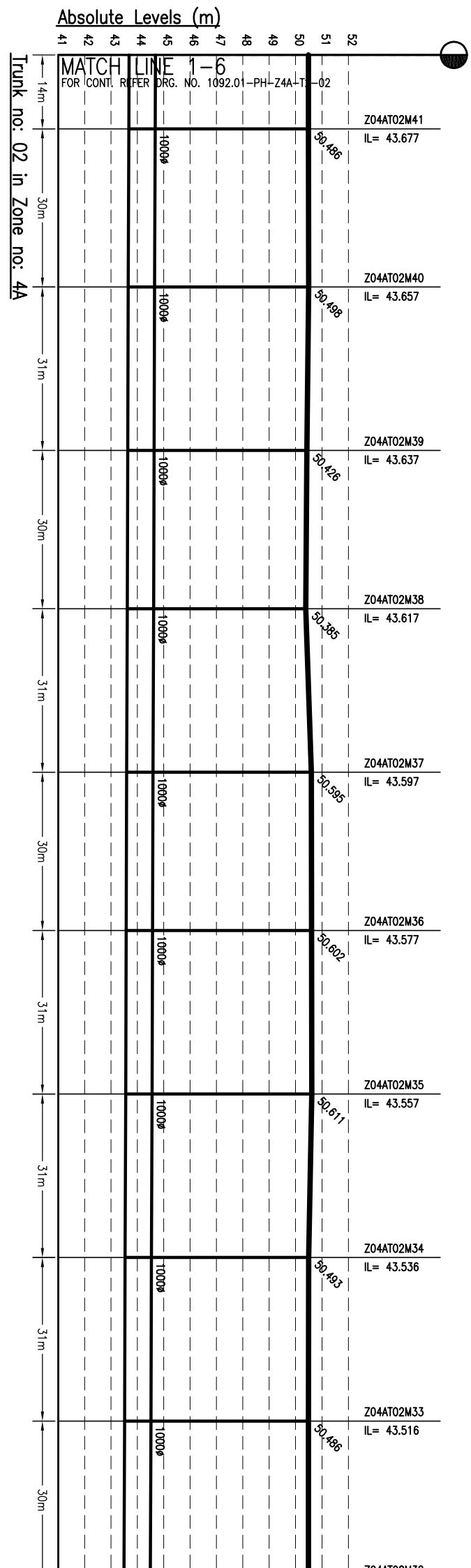
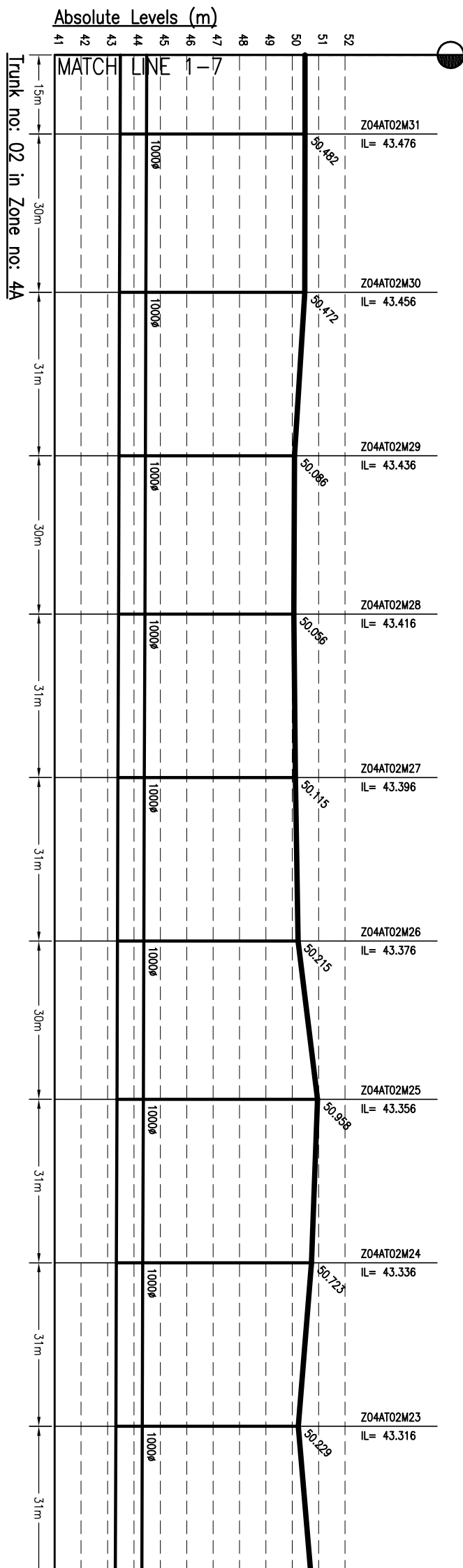
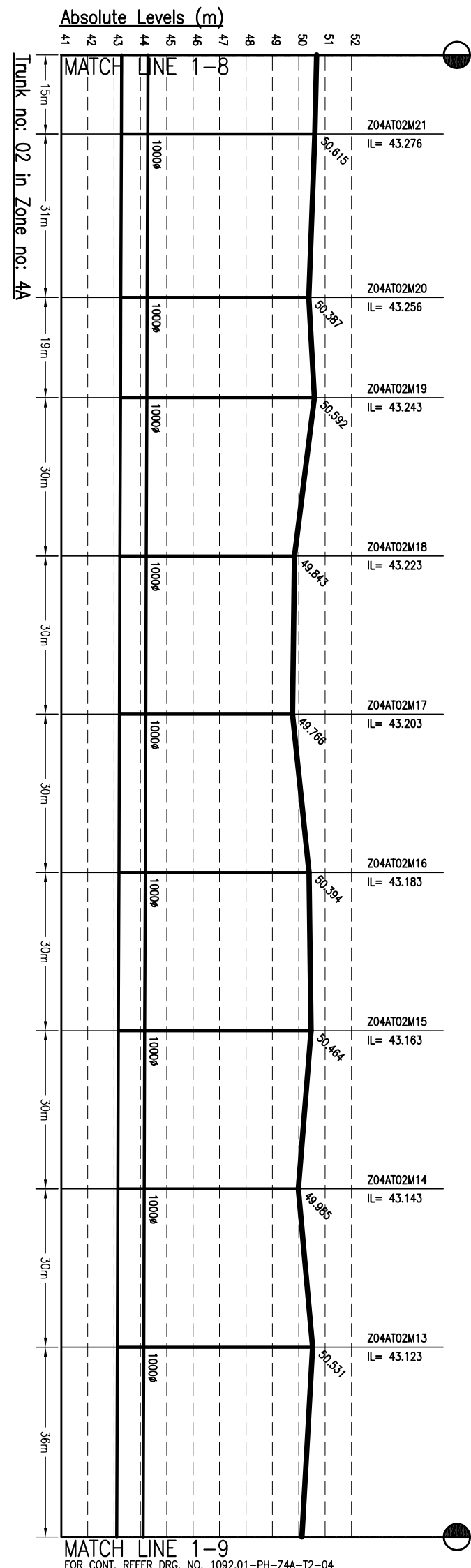
REV	DATE	NAME	DESCRIPTION	CHKD
00	SEP'13	AH	ISSUED FOR DPR	RP

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Drawing Base Reference:
PHC WORK ORDER 3489, DATED 15 DECEMBER 2009.

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MATCH LINE 1-9
FOR CONT. REFER DRG. NO. 1092.01-PH-Z4A-T2-04

MATCH LINE 1-8

MATCH LINE 1-7

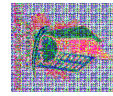
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Drawing Base Reference:-
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	SEP'13	AH	ISSUED FOR DPR	RP

AMENDMENTS

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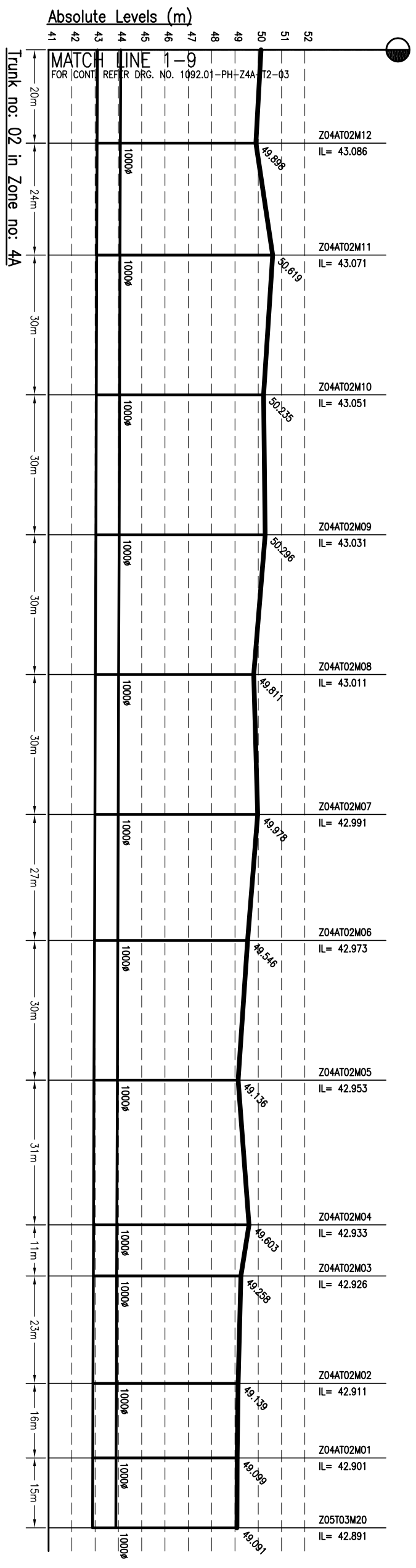
CLIENT:-
BIHAR
URBAN INFRASTRUCTURE
DEVELOPMENT CORPORATION

CONSULTANT:-
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DRAWING TITLE
SEWERAGE
L-SECTION OF TRUNK
ZONE-4A, TRUNK-2 (PAHARI STP)
(Part - 3 of 04)

PURPOSE OF ISSUE
DETAILED PROJECT REPORT
(SEWERAGE)
SCALE :- H-1000, V-200
SHEET SIZE :- A3

DISCIPLINE	DATE OF FIRST ISSUE	DATE OF REVISION
DRAWN	BY	
DESIGNED	JR	SEPTEMBER 2013
CHECKED	RP	SEPTEMBER 2013
APPROVED	CRR	SEPTEMBER 2013
JOB NO.	1092.01	
DISCIPLINE	PH	
DRAWING NO.	Z4A-T2-T-03	
REVISION	00	



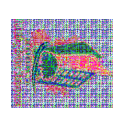
NOTES:-

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Drawing Base Reference:-
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	SEP'13	AH	ISSUED FOR DPR	RP

AMENDMENTS



CLIENT:-
 BIHAR
 URBAN INFRASTRUCTURE
 DEVELOPMENT CORPORATION

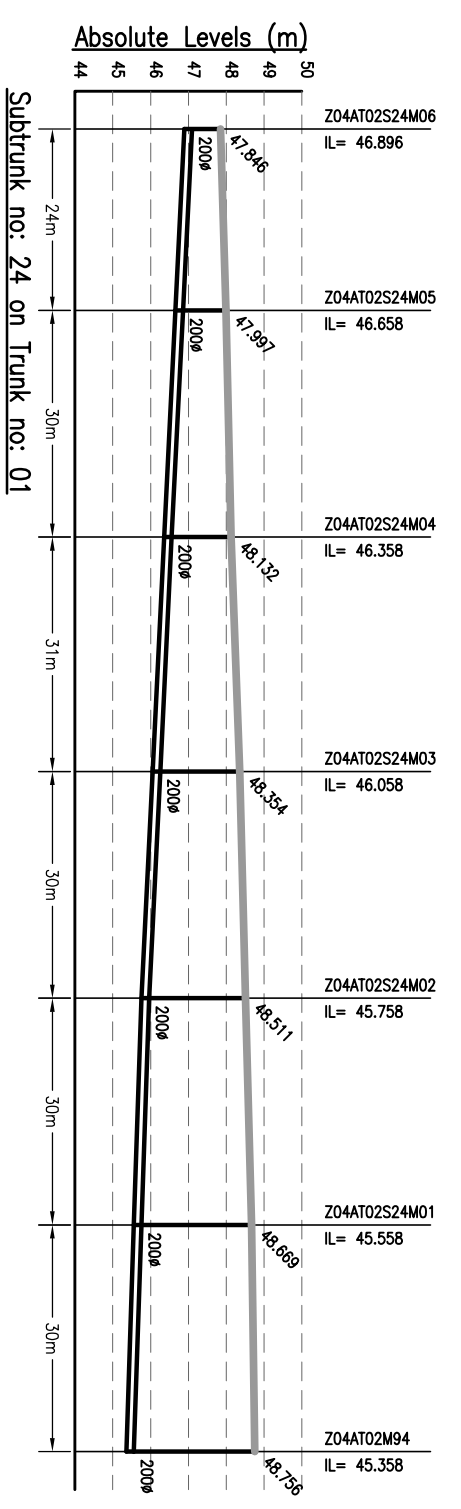
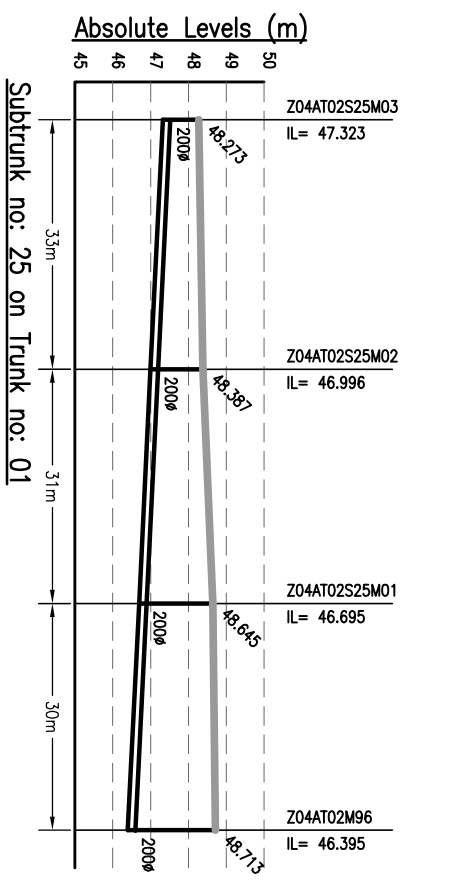
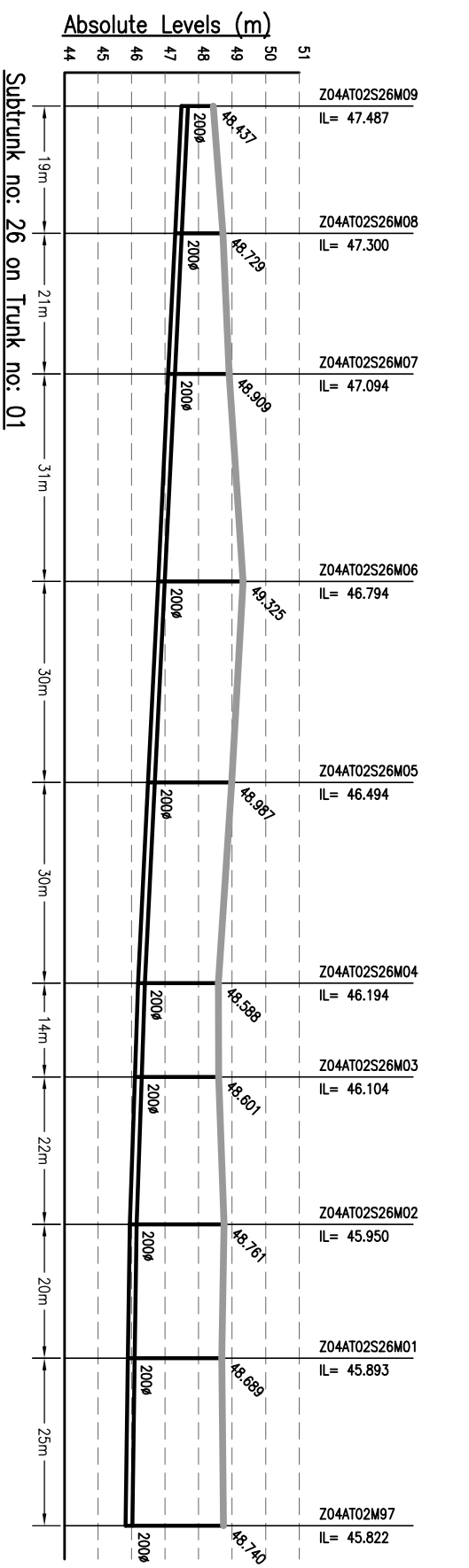
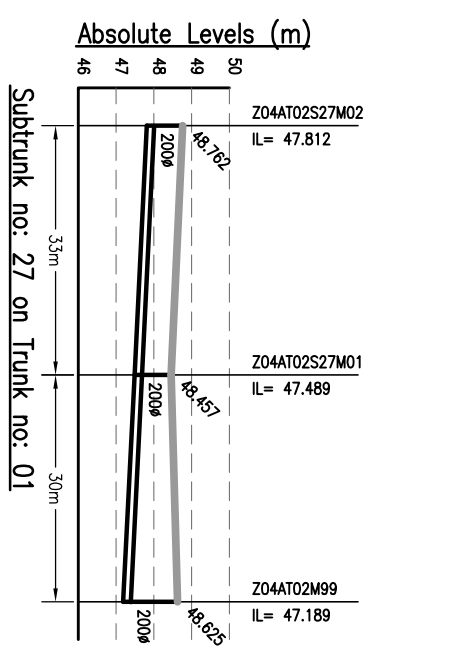
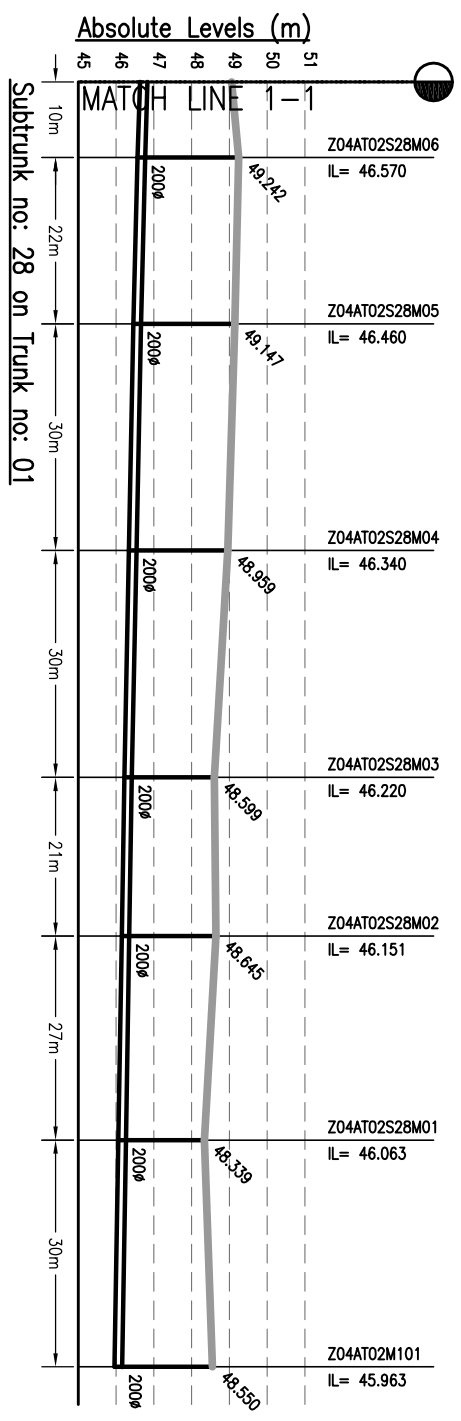
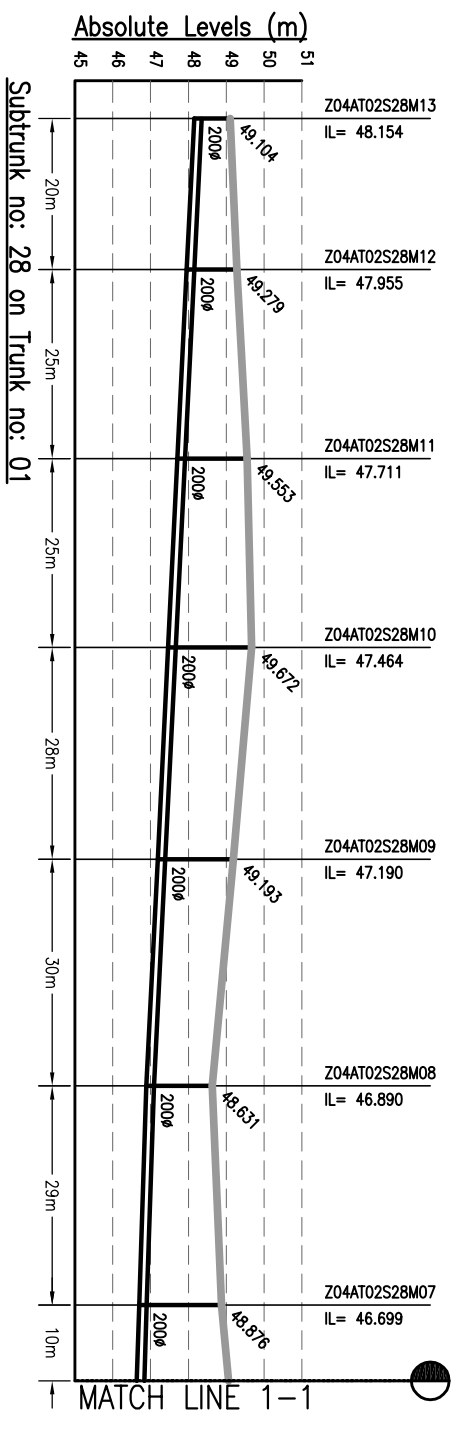
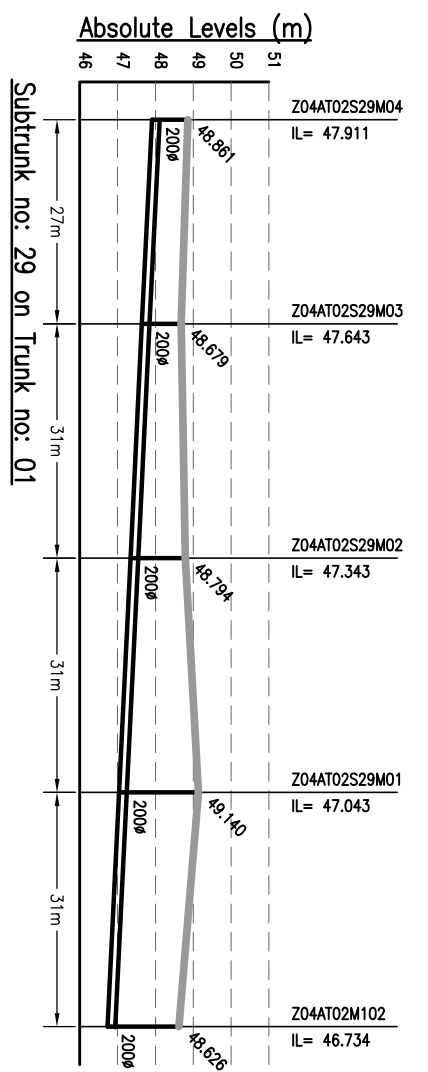
PROJECT:-
 PREPARATION OF DETAILED
 PROJECT REPORTS (DPRs) & BID
 DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION &
 QUALITY CONTROL OF SEWERAGE
 PROJECTS OF PATNA UNDER NGRBA

CONSULTANT:-

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DRAWING TITLE
SEWERAGE
L-SECTION OF TRUNK
ZONE-4A, TRUNK-2 (PAHARI STP)
 (Pkt - 4 of 04)

DISCIPLINE	DATE OF FIRST ISSUE	DATE OF REVISION	REVISION NO.
DRAWN	BY	DATE	NO.
DESIGNED	JR	SEPTEMBER 2013	
CHECKED	RP	SEPTEMBER 2013	
APPROVED	CRR	SEPTEMBER 2013	
JOB NO.	1092.01	PH	Z4A-12-T-04
REVISION			00



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 4. REFER DRAWING NO. TO 491 & 1092.01-PH-N-01 TO 491 FOR LOCATION OF MANHOLE AND OTHER DETAILS.

Drawing Base Reference:
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

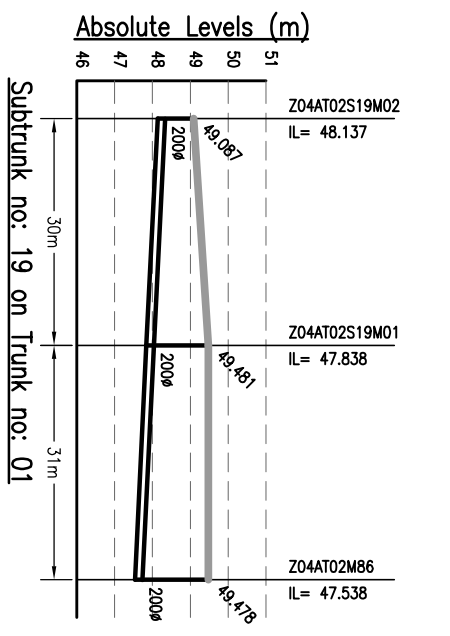
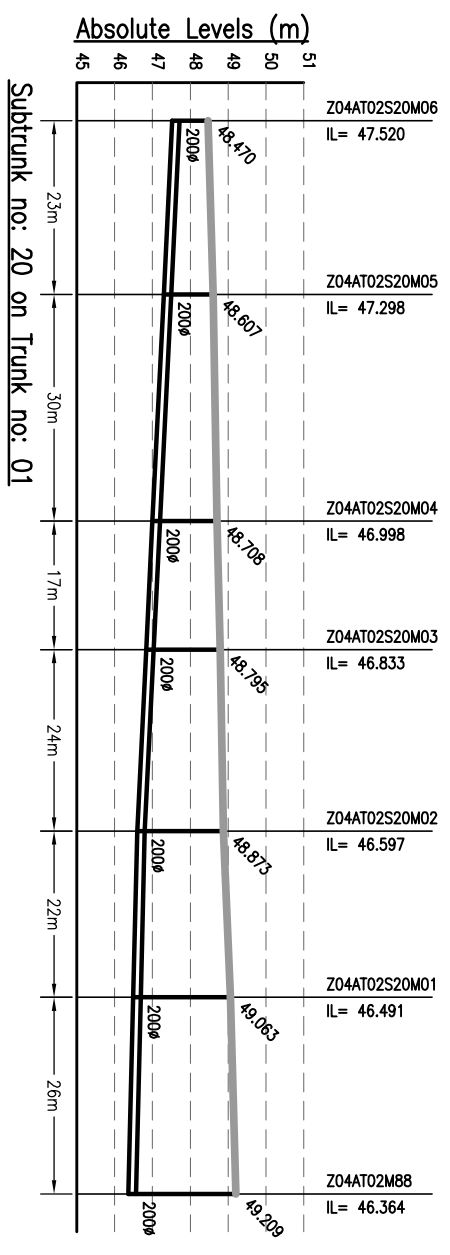
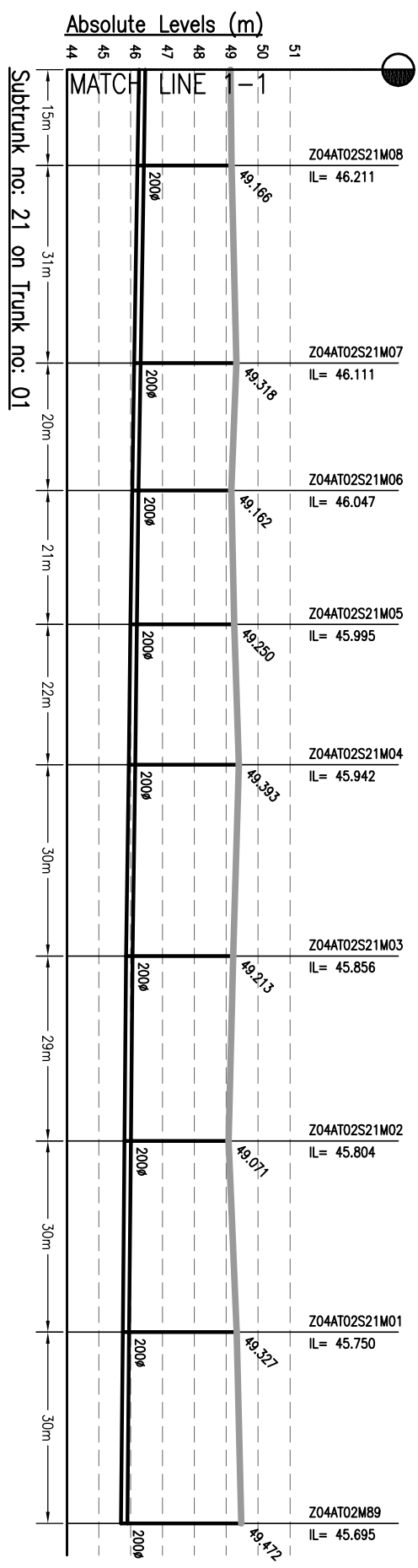
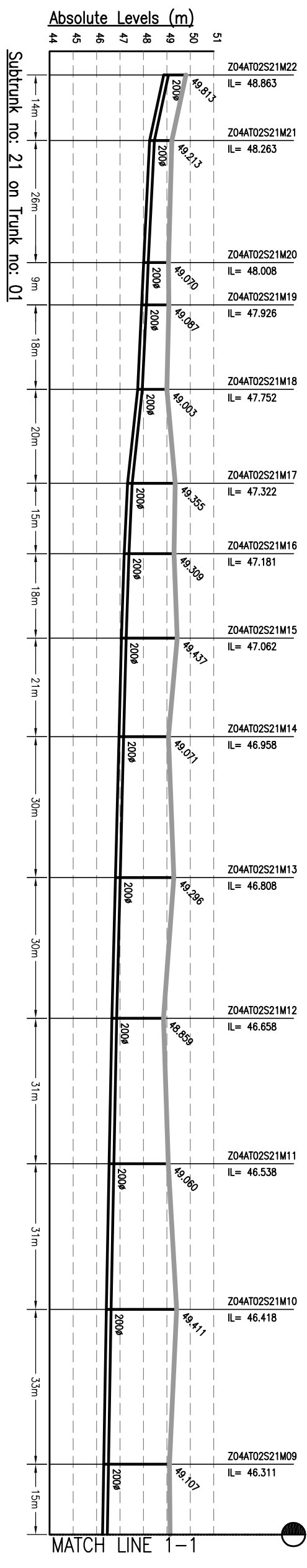
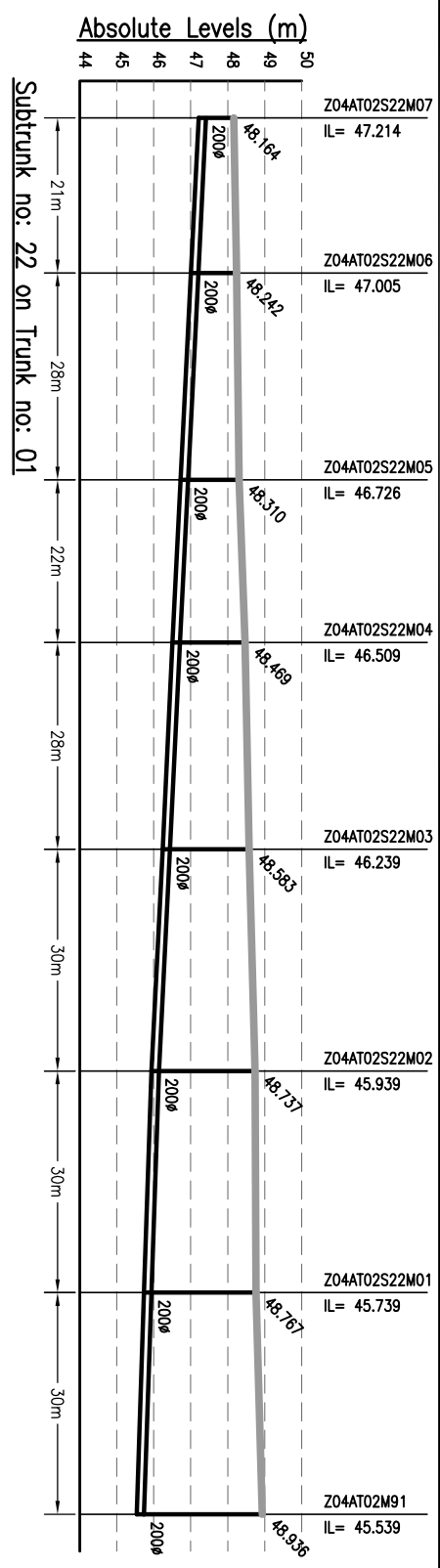
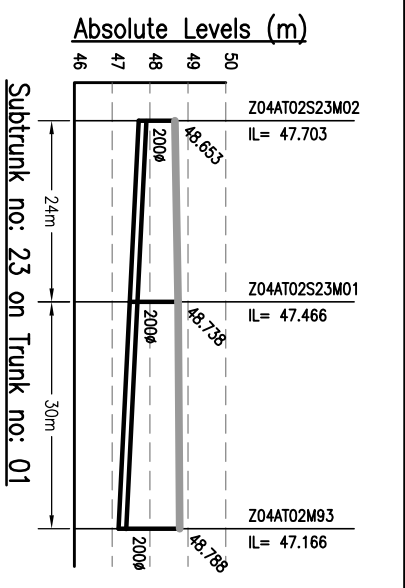
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 CLIENT:-

CONSULTANT:-
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 www.meinhardtgroup.com, Email: info@meinhardtdia.com

PROJECT:-
 BIHAR
 URBAN INFRASTRUCTURE
 DEVELOPMENT CORPORATION
 PREPARATION OF DETAILED
 PROJECT REPORTS (DPRS) & BID
 DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION &
 QUALITY CONTROL OF SEWERAGE &
 DRAINAGE PROJECTS OF PATNA
 UNDER JNNURM

DRAWING TITLE
 SEWERAGE
 L-SECTION OF SUBTRUNK
 ZONE-4A, TRUNK-2 (SPS-B)
 (PART - 1 OF 8)

DESIGNED	BY	DATE OF FIRST ISSUE	
JR	SKS	MAY 2013	
CHECKED	BY	DATE OF FIRST ISSUE	
RP	SKS	MAY 2013	
APPROVED	BY	DATE OF FIRST ISSUE	
CR	SKS	MAY 2013	
JOB NO.	DISCIPLINE	DRAWING NO.	REVISION
1092.01	PH	Z4A-12-S-01	00



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Drawing Base Reference:
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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CLIENT:-


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 Bihar - 800 001, India
 Phone: +91 91 22516165, Fax No.: +91 120 2515745
 www.buidc.org, Email: info@buidc.org

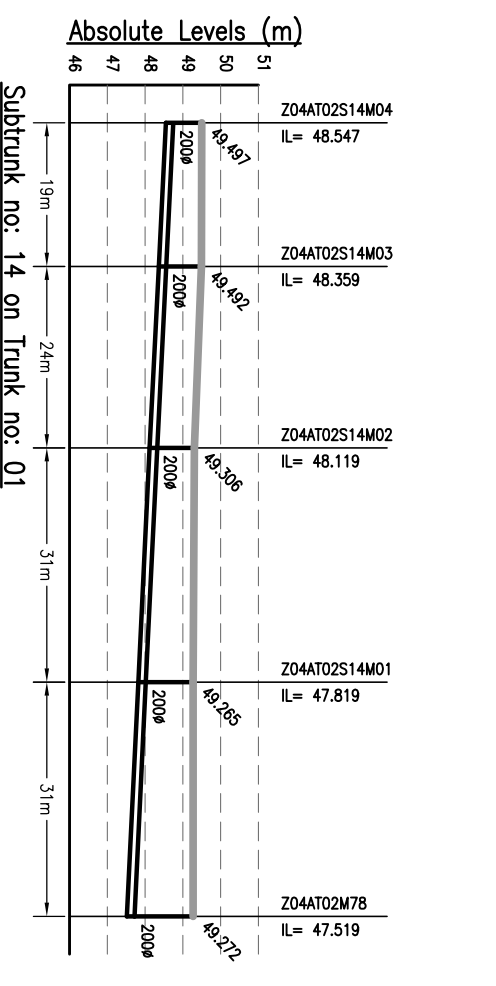
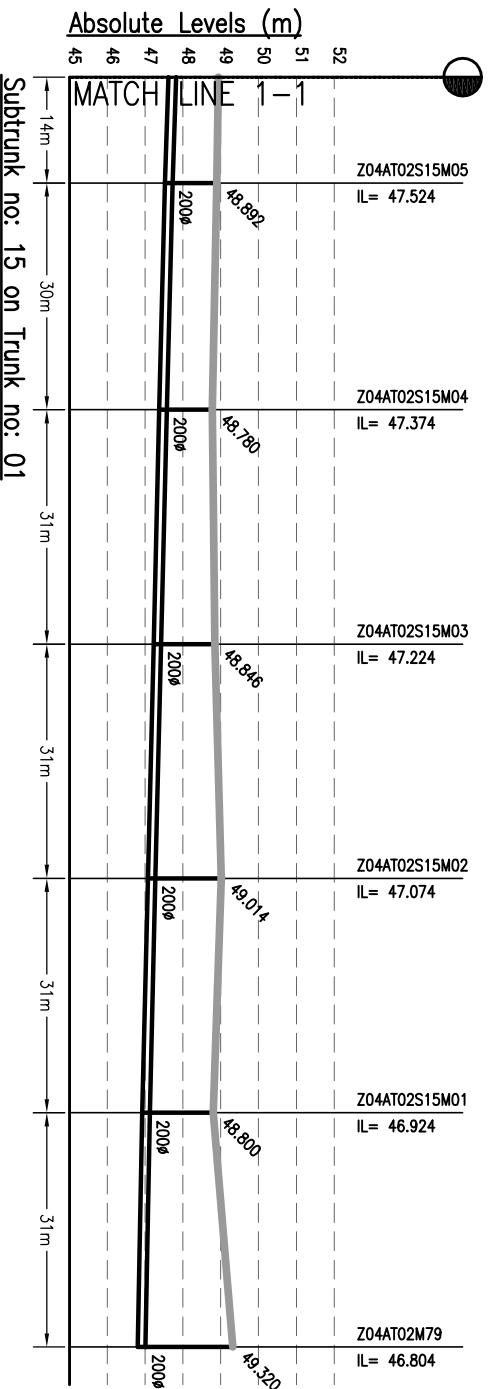
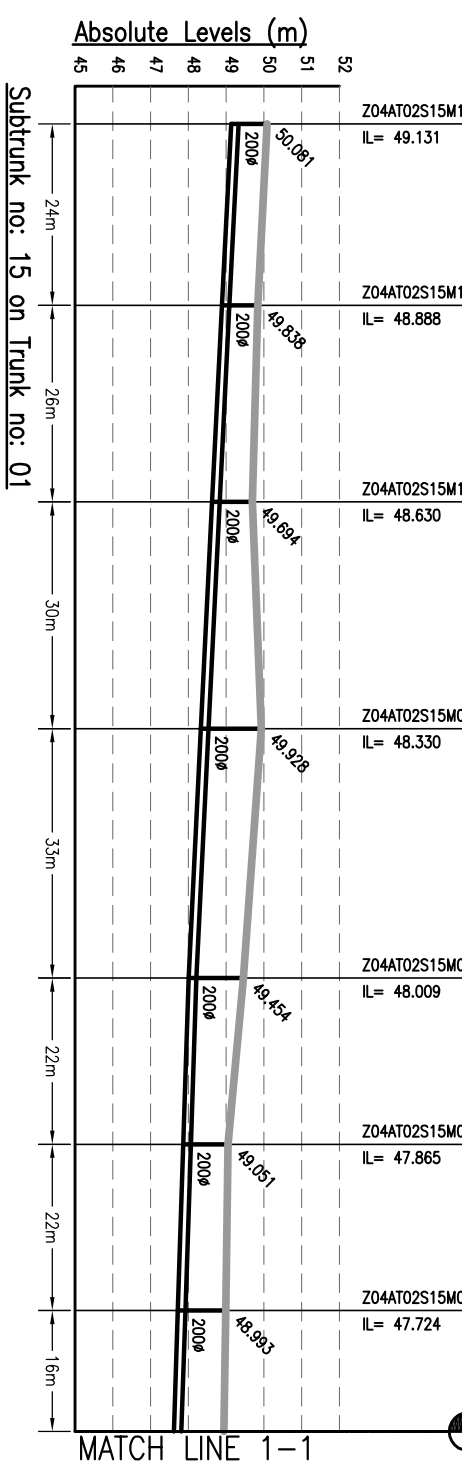
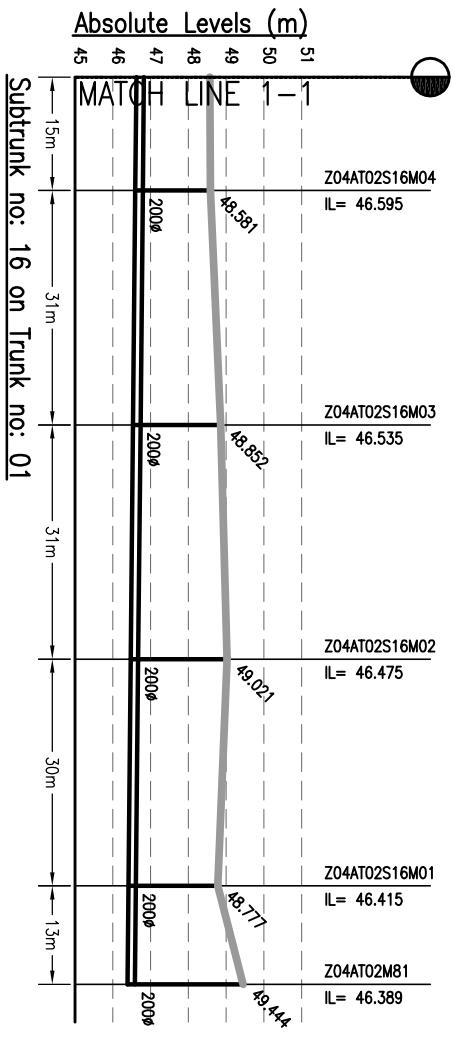
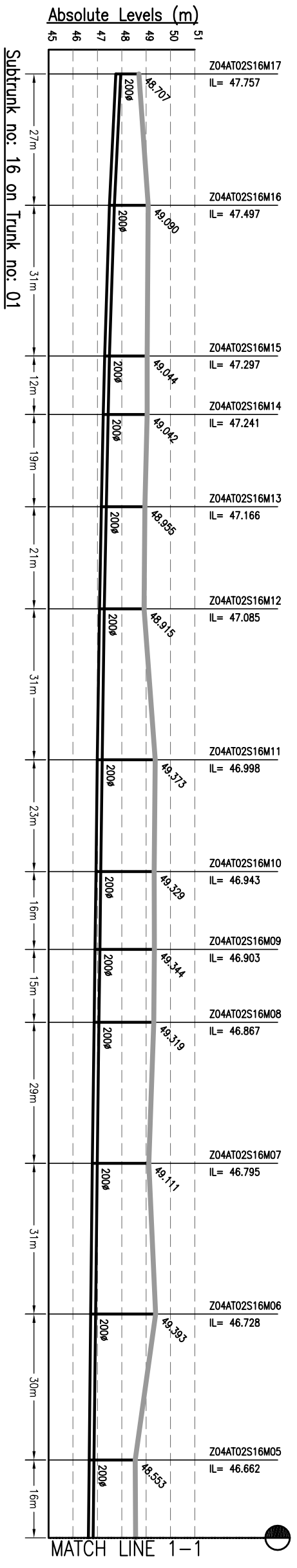
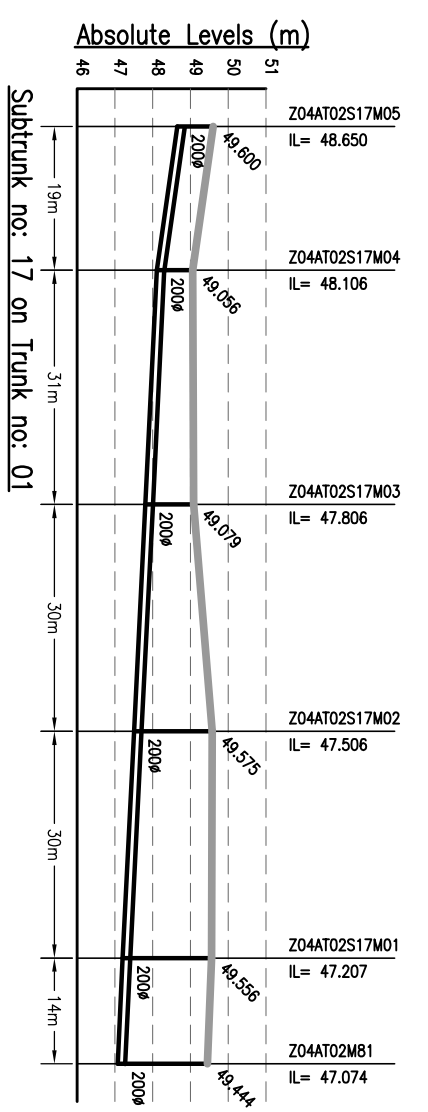
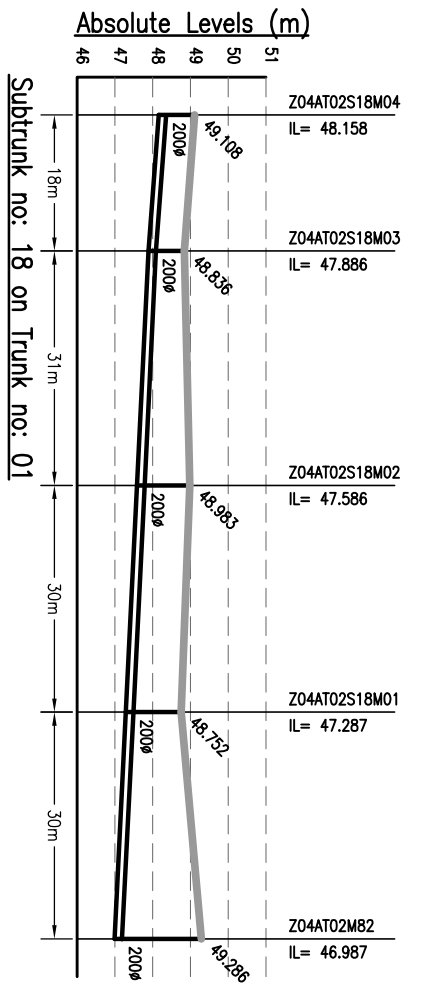
PROJECT:-
 PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

CONSULTANT:-


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DRAWING TITLE
L-SECTION OF SUBTRUNK ZONE-4A, TRUNK-2 (SPS-B) (PART - 2 OF 8)

PURPOSE OF ISSUE	SCALE: H-1000, V-200
DRAFT DETAIL PROJECT REPORT	SHEET SIZE: A3
BY	DATE OF FIRST ISSUE
SKS	MAY 2013
DESIGNED	JR
CHECKED	RP
APPROVED	CRR
DISCIPLINE	DRAWING NO.
PHI	Z4A-12-S-02
REVISION	00




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 4. REFER DRAWING NO. T-1 TO 491 & 1092.01-PH-N-01 TO 491 FOR LOCATION OF MANHOLE AND OTHER DETAILS.

Drawing Base Reference:
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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CLIENT:-

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 303, Mahatma Tower, Sector-10, Ganga Nagar, Patna-800 001, Bihar, India
 Phone: +91 9127010101 Fax: +91 9127201013
 Website: www.buidc.org

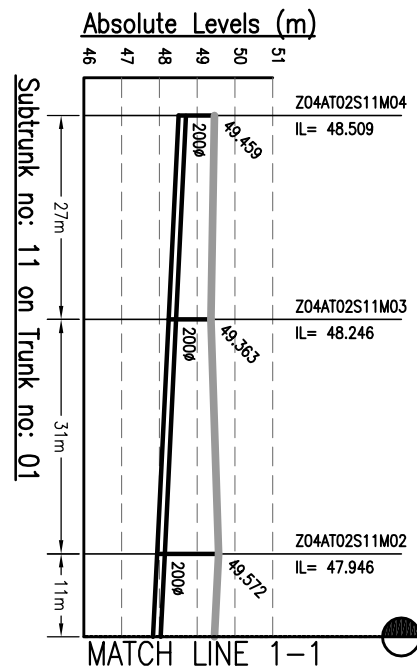
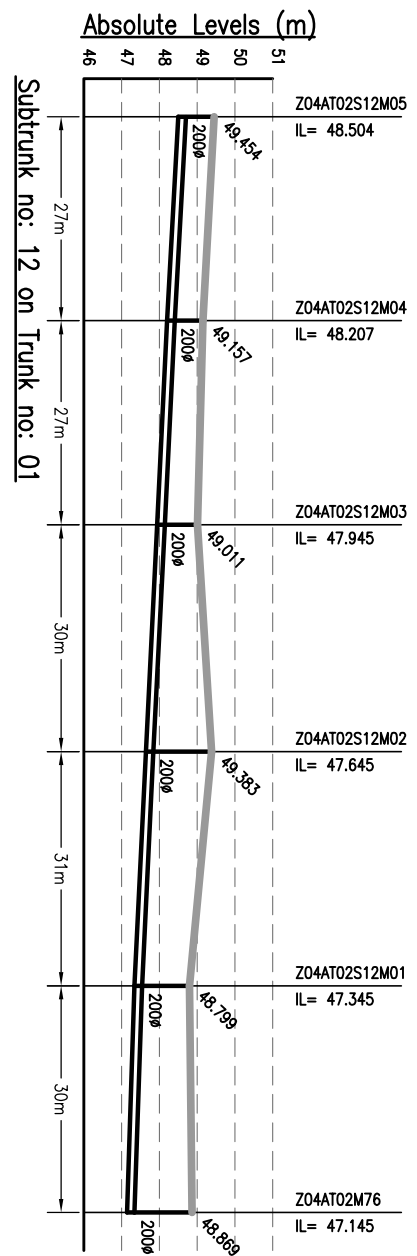
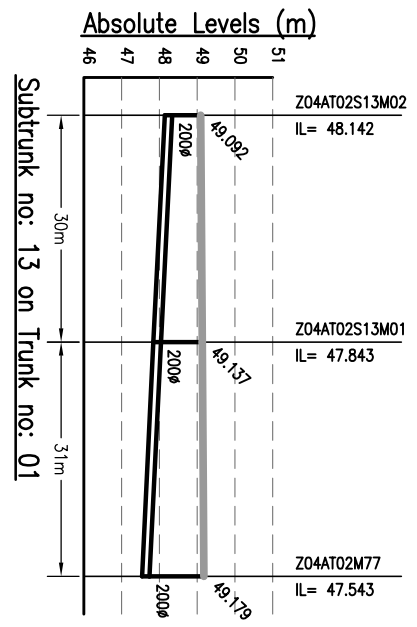
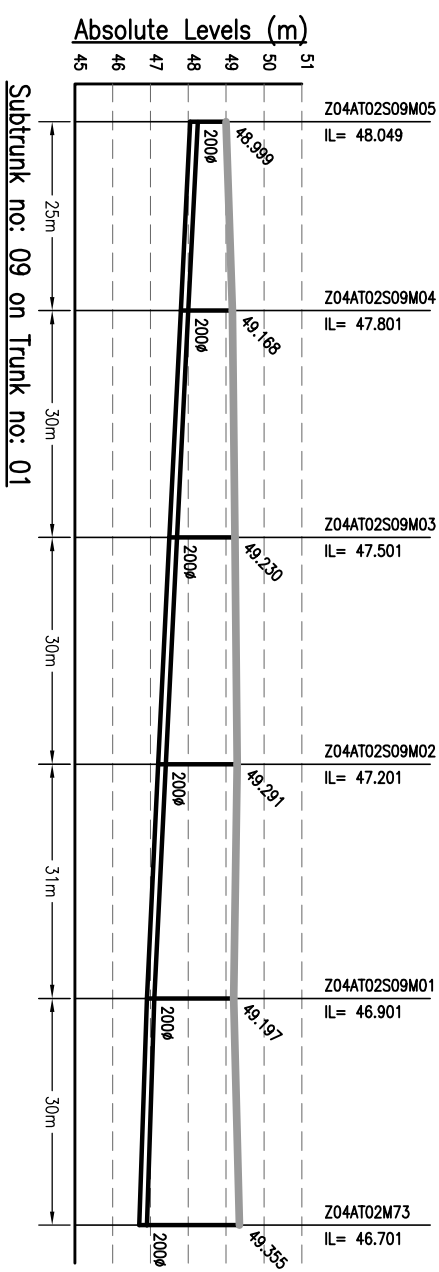
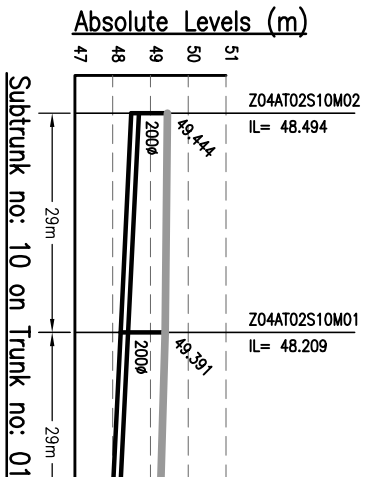
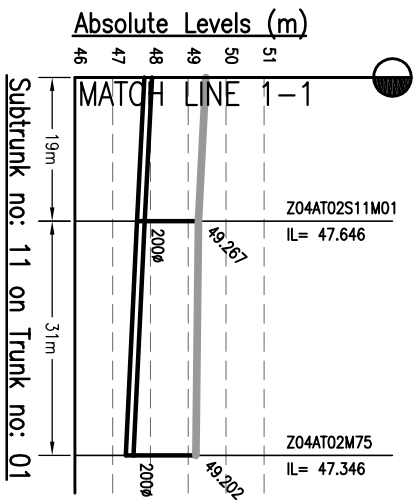
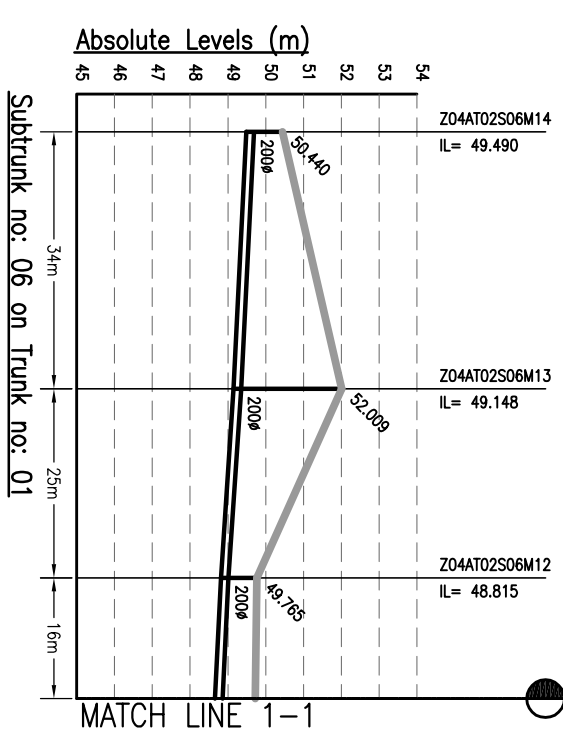
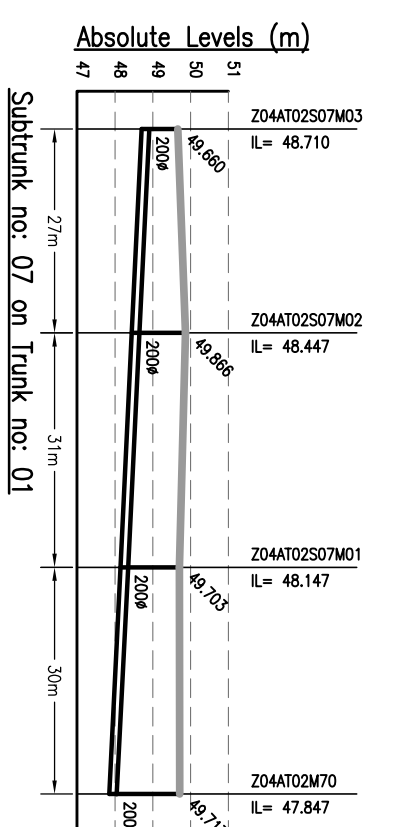
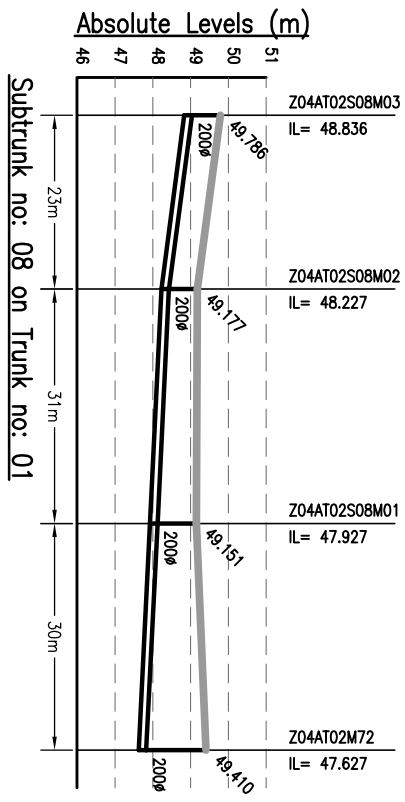
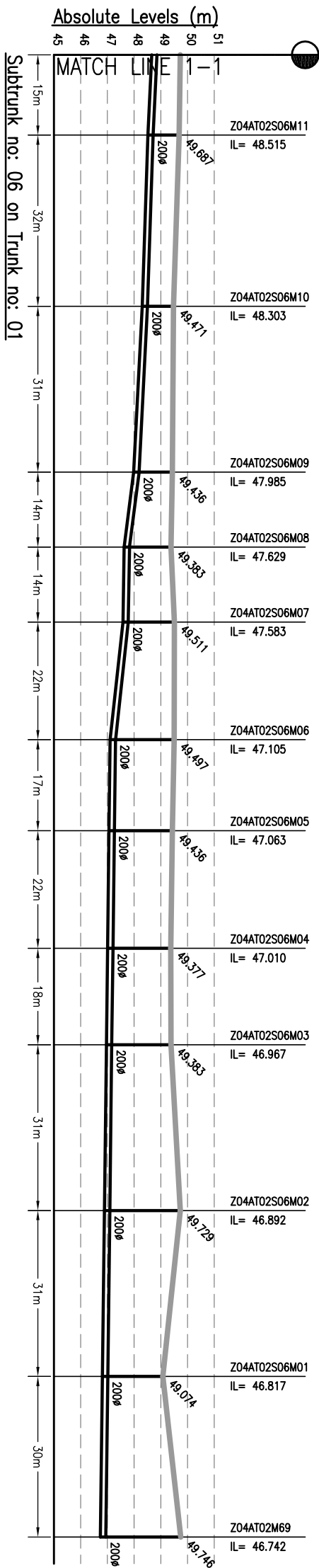
PROJECT:-
PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS:
TENDERING FOR EXECUTION, CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

CONSULTANT:-

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 www.meinhardtgroup.com, Email: info@meinhardtindia.com

DRAWING TITLE
SEWERAGE L-SECTION OF SUBTRUNK ZONE-4A, TRUNK-2 (SPS-B)
 (PART - 3 OF 8)

PURPOSE OF ISSUE	SCALE: H-1000, V-200
DRAWN	SHEET SIZE: A3
DESIGNED	DATE OF FIRST ISSUE
CHECKED	BY
APPROVED	DATE
JOB NO.	DISCIPLINE
1092.01	PHI
	Z4A-12-S-03
	REVISION
	00



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 4. REFER DRAWING NO. 1 TO 491 & 1092.01-PH-N-01 TO 491 FOR LOCATION OF MANHOLE AND OTHER DETAILS.

Drawing Base Reference:
PAC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SNS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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 Singapore 049917
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 Website: www.meinhardt.com

BIHAR
 URBAN INFRASTRUCTURE
 DEVELOPMENT CORPORATION

PROJECT:-
 PREPARATION OF DETAILED
 PROJECT REPORTS (DPRS) & BID
 DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION &
 QUALITY CONTROL OF SEWERAGE &
 DRAINAGE PROJECTS OF PATNA
 UNDER JNNURM

CONSULTANT:-

MEINHARDT
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 A-8, Sector-6, Noida-201301, India
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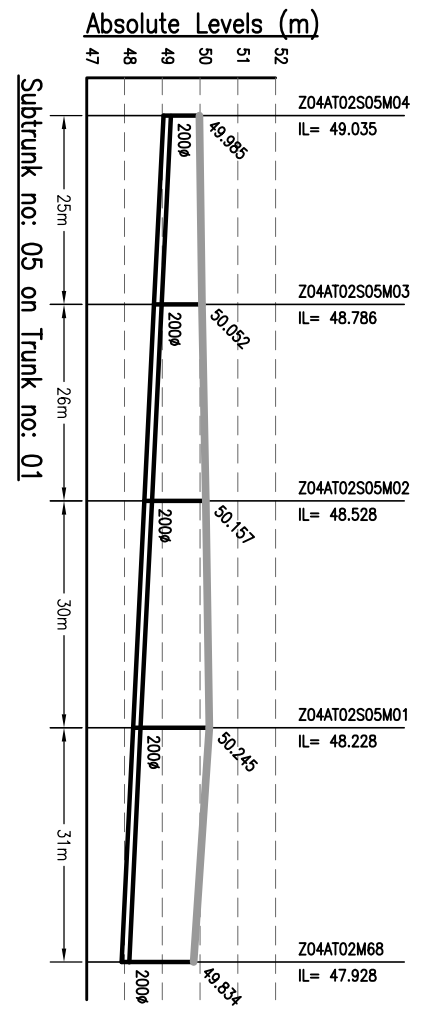
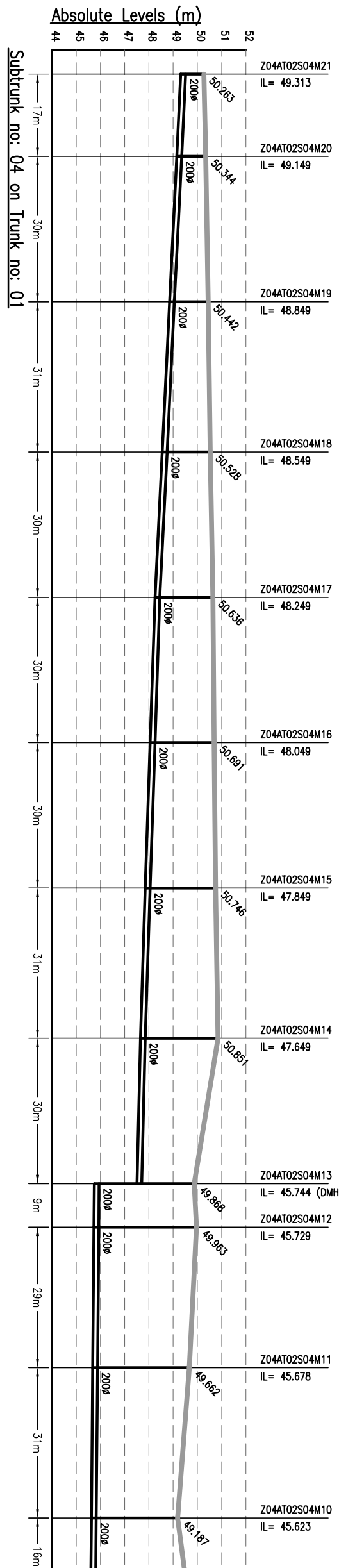
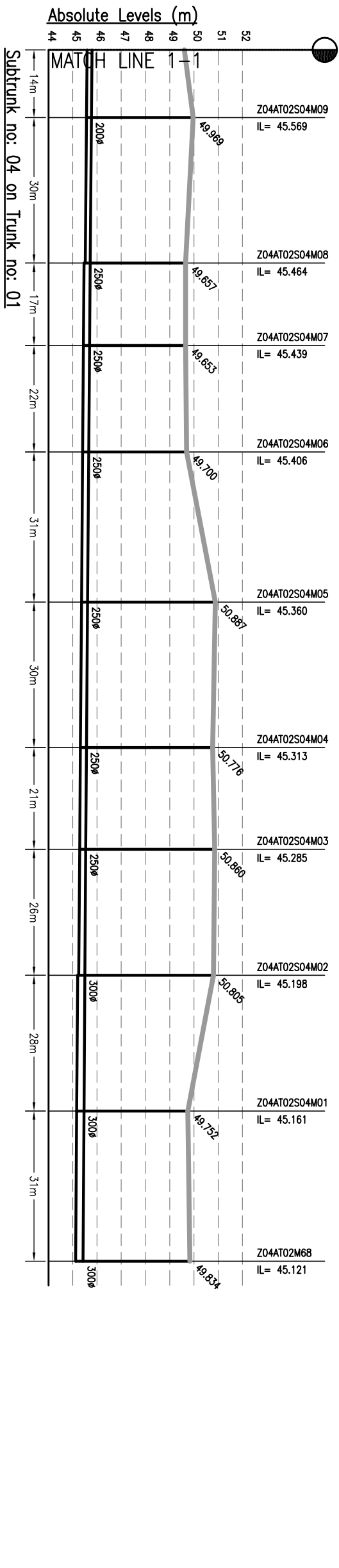
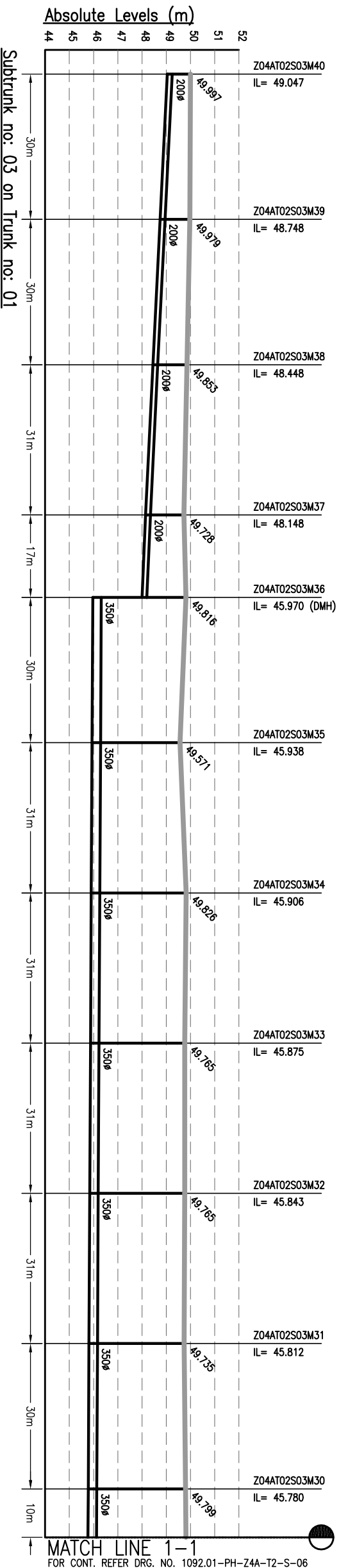
DRAWING TITLE
 SEWERAGE
 L-SECTION OF SUBTRUNK
 ZONE-4A, TRUNK-2 (SPS-B)
 (PART - 4 OF 8)

PURPOSE OF ISSUE
 DRAFT DETAILED PROJECT REPORT

SCALE : H-1000, V-200
SHEET SIZE : A3

DATE OF FIRST ISSUE	BY	DATE OF REVISION	REVISION
MAY 2013	SNS	MAY 2013	00
MAY 2013	JR	MAY 2013	01
MAY 2013	RP	MAY 2013	02
MAY 2013	CR	MAY 2013	03
MAY 2013	DISCIPLINE	MAY 2013	04

JOB NO. : 1092.01
PHASE : PH1
DRAWING NO. : Z4A-12-S-04
REVISION : 00



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Drawing Base Reference:
PMC WORK ORDER 3499, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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CLIENT:-


BIHAR URBAN INFRASTRUCTURE DEVELOPMENT CORPORATION

303, Maliga Tower, 2nd Floor
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 Website: www.buidc.org

PROJECT:-
 PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION &
 QUALITY CONTROL OF SEWERAGE &
 DRAINAGE PROJECTS OF PATNA UNDER JNNURM

CONSULTANT:-
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DRAWING TITLE
 SEWERAGE
 L-SECTION OF SUBTRUNK
 ZONE-4A, TRUNK-2 (SPS-B)
 (PART - 5 OF 8)

PURPOSE OF ISSUE
 DRAFT DETAIL PROJECT REPORT

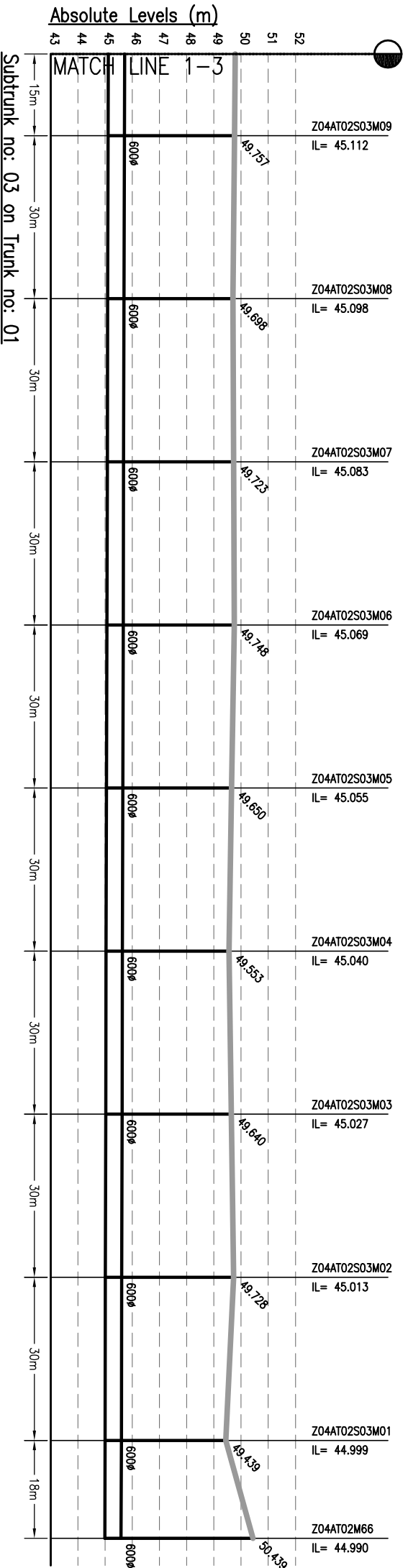
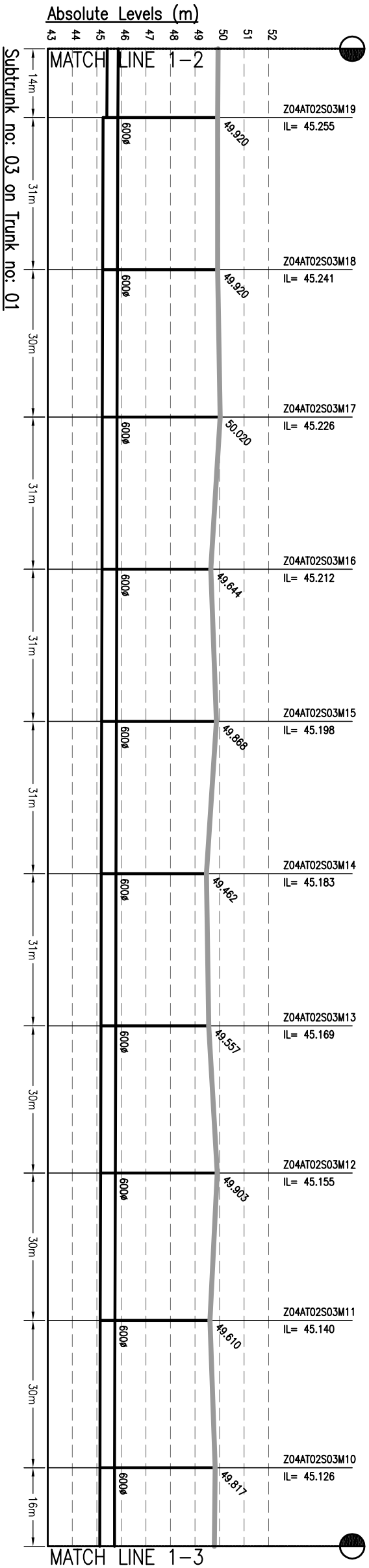
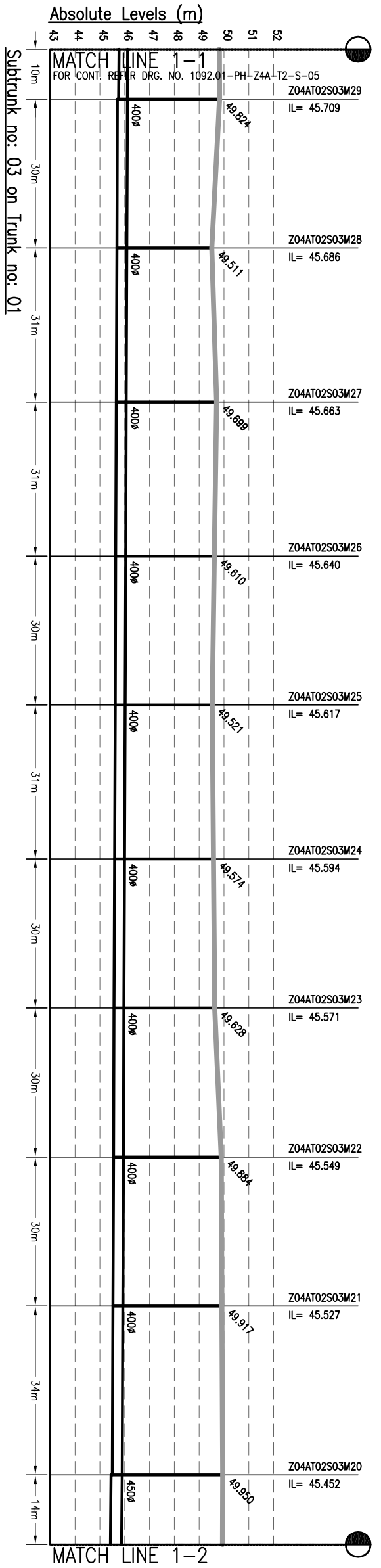
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SHEET SIZE: A3

DESIGNED BY	DATE OF FIRST ISSUE
SKS	MAY 2013

CHECKED BY	DATE
JR	MAY 2013

APPROVED BY	DATE
CR	MAY 2013

JOB NO.	DISCIPLINE	DRAWING NO.	REVISION
1092.01	PH	Z4A-T2-S-05	00



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Drawing Base Reference:
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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 Plot no. 16, 67/2010/1, 1st & 2nd floor,
 Westend, Indraprastha, New Delhi - 110028

PROJECT:-
 PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

CONSULTANT:-

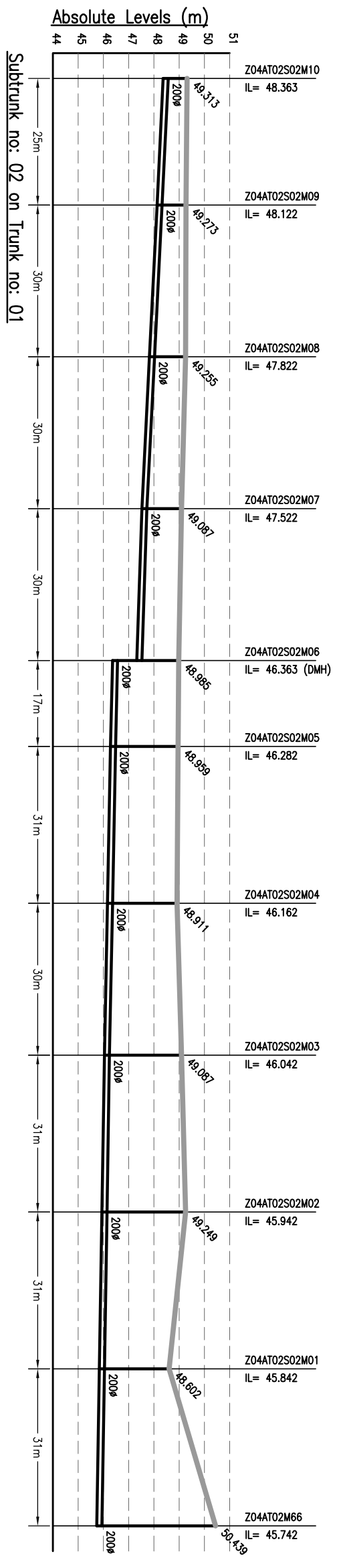
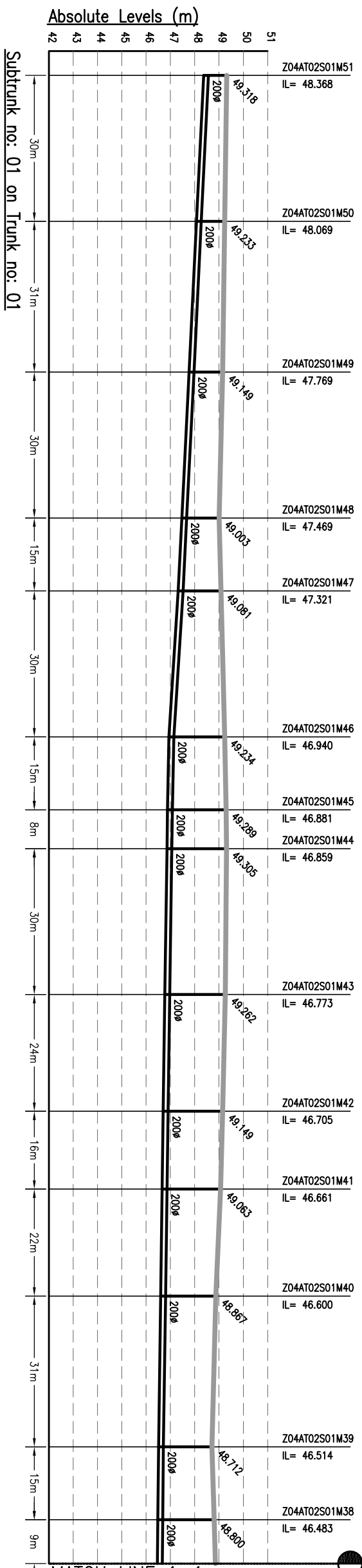
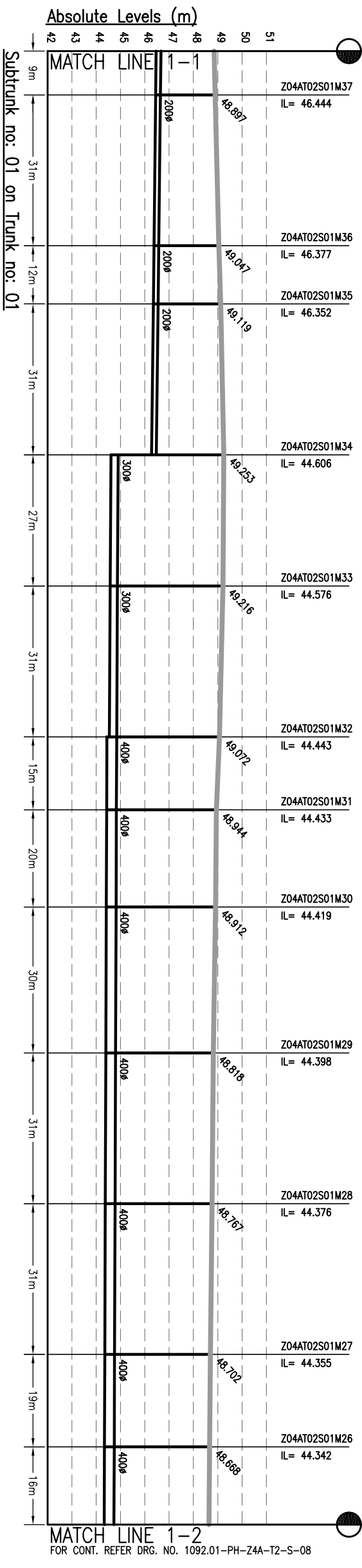
MEINHARDT
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DRAWING TITLE
 SEWERAGE
 L-SECTION OF SUBTRUNK
 ZONE-4A, TRUNK-2 (SPS-B)
 (PART - 6 OF 8)

PURPOSE OF ISSUE
 DRAFT DETAILED PROJECT REPORT

SCALE: - H-1000, V-200
SHEET SIZE: - A3
DATE OF FIRST ISSUE:

NO.	DATE	BY	SCALE
DRAWN	MAY 2013	SKS	MAY 2013
DESIGNED	MAY 2013	JR	MAY 2013
CHECKED	MAY 2013	RP	MAY 2013
APPROVED	MAY 2013	CR	MAY 2013
JOB NO.	DISCIPLINE	DRAWING NO.	REVISION
1092.01	PH	Z4A-12-S-06	00



MATCH LINE 1-2
FOR CONT. REFER DRG. NO. 1092.01-PH-Z4A-T2-S-08

MATCH LINE 1-1

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Drawing Base Reference:
PWC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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CLIENT:-
BIHAR URBAN INFRASTRUCTURE DEVELOPMENT CORPORATION

PROJECT:-
PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS;
TENDERING FOR EXECUTION;
CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

CONSULTANT:-
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DRAWING TITLE
SEWERAGE
L-SECTION OF SUBTRUNK
ZONE-4A, TRUNK-2 (SPS-B)
(PART - 7 OF 8)

PURPOSE OF ISSUE
DRAFT DETAILED PROJECT REPORT

SCALE: H-1000, V-200

SHEET SIZE: A3

DATE OF FIRST ISSUE

DISCIPLINE	DRAWING NO.	REVISION
PH	Z4A-T2-S-07	00

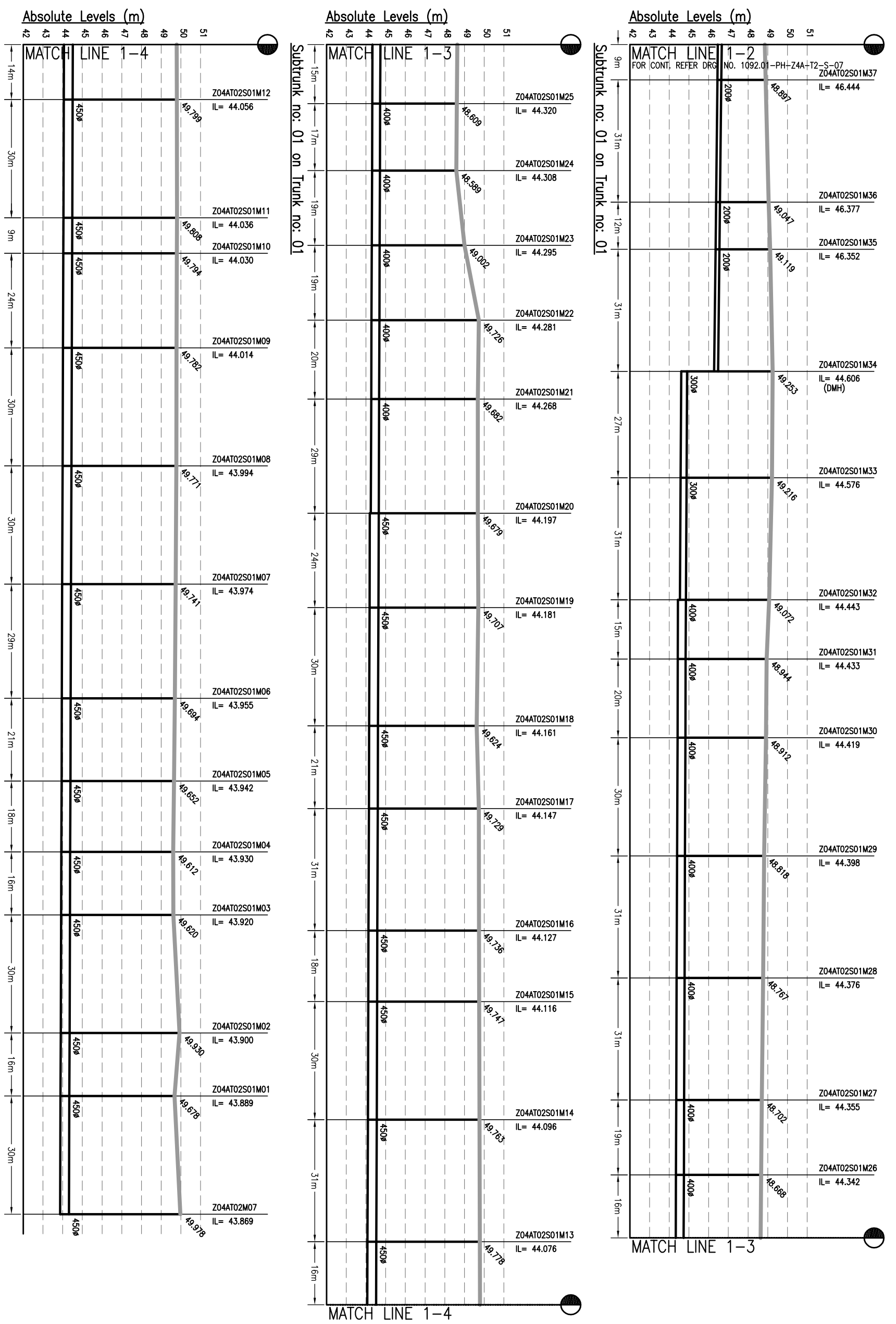
JOB NO.: 1092.01

APPROVED: [Signature]

CHECKED: [Signature]

DESIGNED: [Signature]

DRAWN: [Signature]




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Drawing Base Reference:
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

AMENDMENTS

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP

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CLIENT:-

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DRAWING TITLE
SEWERAGE
L-SECTION OF SUBTRUNK
ZONE-4A, TRUNK-2 (SPS-B)
 (PART - 8 OF 8)

PURPOSE OF ISSUE
 DRAFT DETAILED PROJECT REPORT

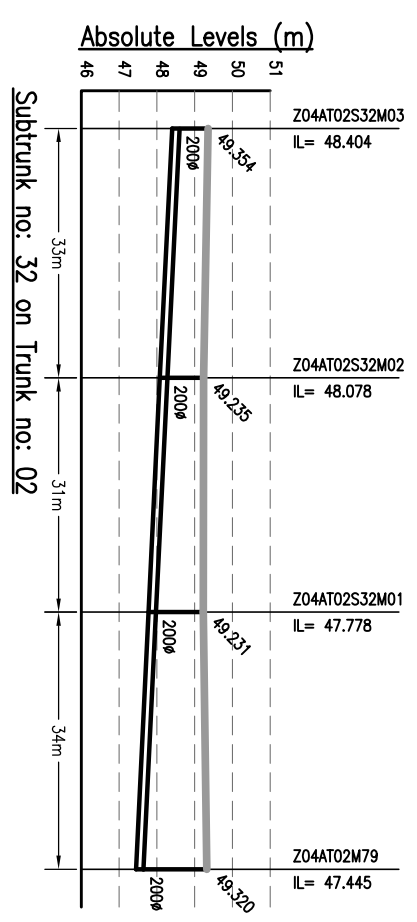
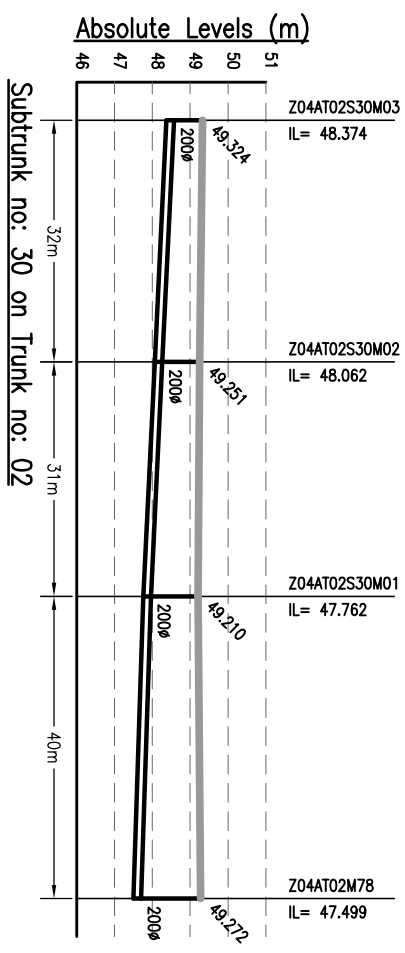
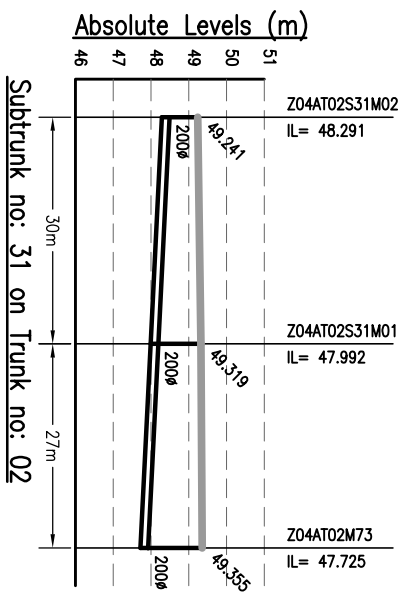
SCALE: - H-1000, V-200

SHEET SIZE: - A3

DATE OF FIRST ISSUE

DISCIPLINE	DATE	BY	CHKD
DRAWN	MAY 2013	SKS	
DESIGNED	MAY 2013	JR	
CHECKED	MAY 2013	RP	
APPROVED	MAY 2013	CRB	

JOB NO.: 1092.01 **PHI** **Z4A-12-S-08** **REVISION** **00**



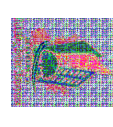
- NOTES:-**
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Drawing Base Reference:-
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV/	DATE	NAME	DESCRIPTION	CHKD
00	SEP'13	AH	ISSUED FOR DPR	RP

AMENDMENTS

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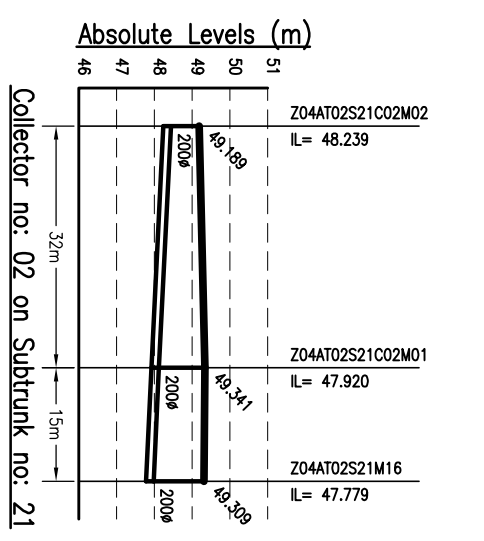
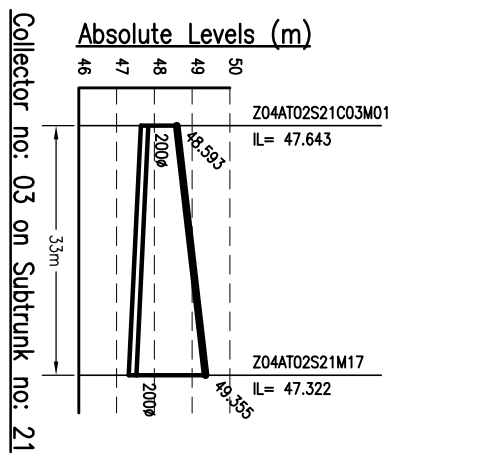
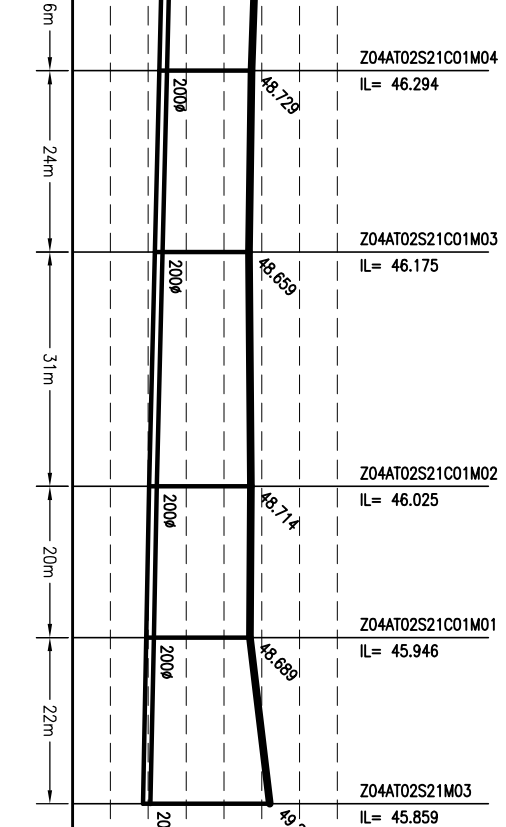
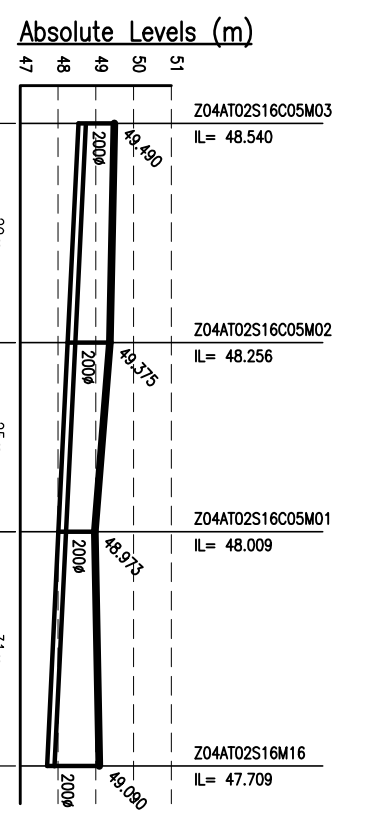
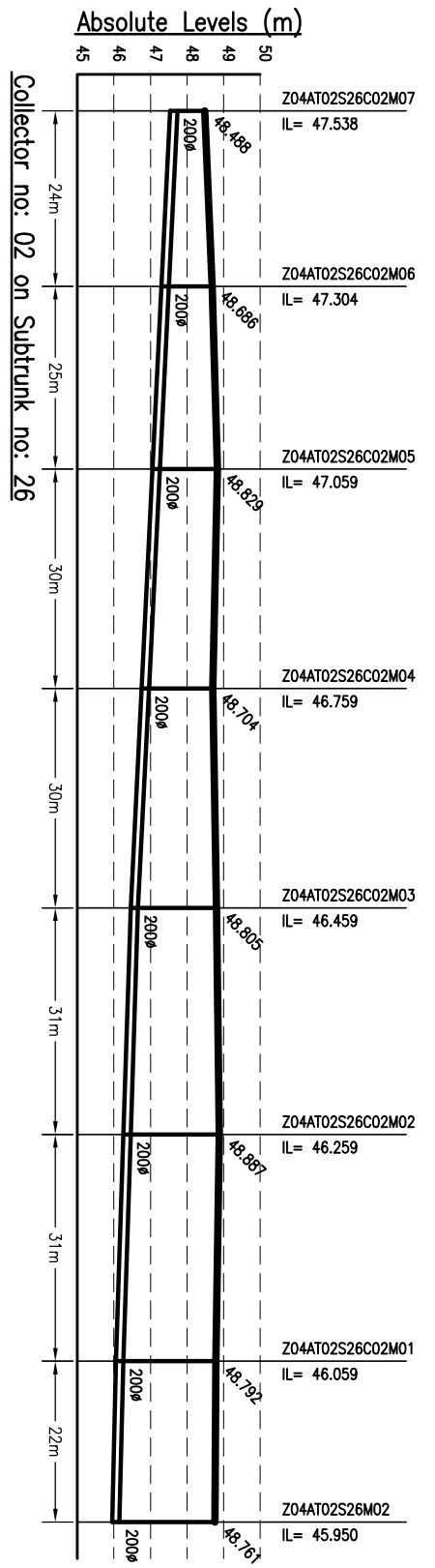
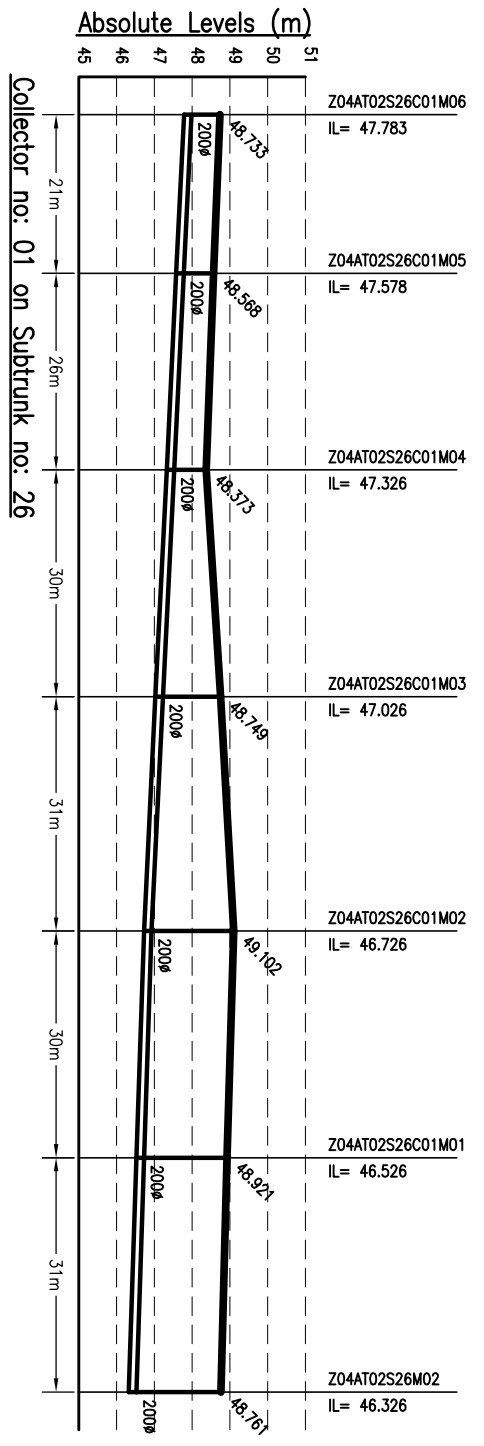
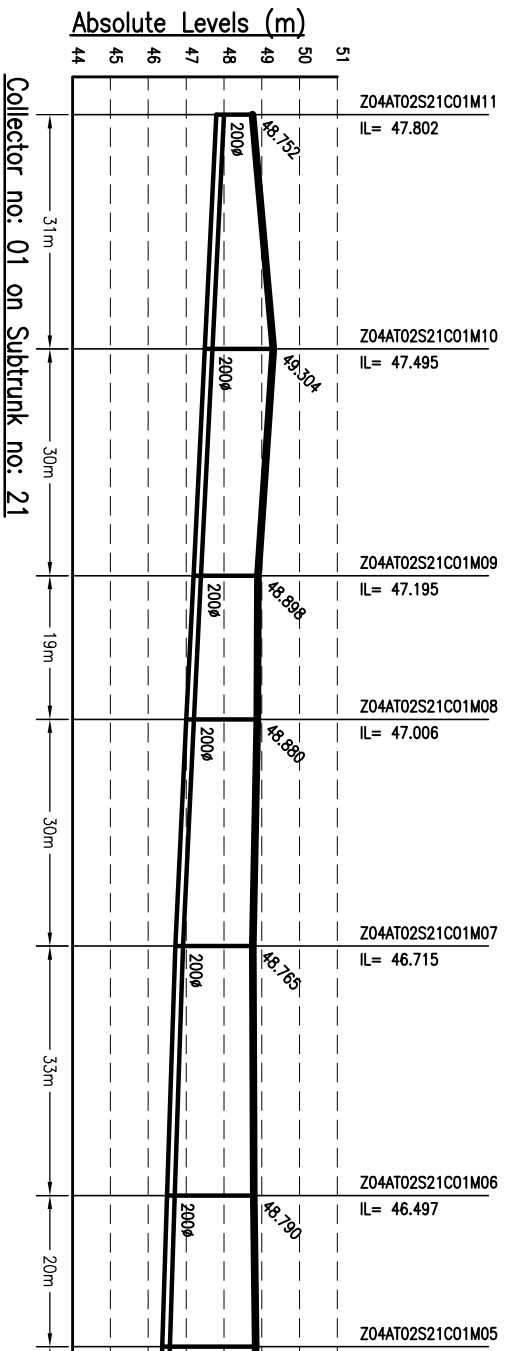
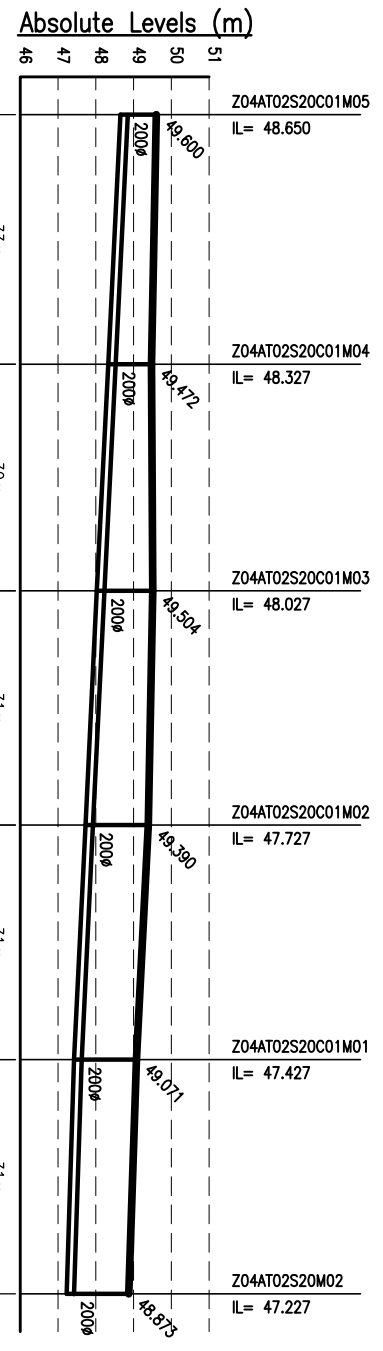
CLIENT:-
 BIHAR
 URBAN INFRASTRUCTURE
 DEVELOPMENT CORPORATION

PROJECT:-
 PREPARATION OF DETAILED
 PROJECT REPORTS (DPRs) & BID
 DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION &
 QUALITY CONTROL OF SEWERAGE
 PROJECTS OF PATNA UNDER NGRBA

CONSULTANT:-
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DRAWING TITLE
 SEWERAGE
 L-SECTION OF SUB-TRUNK
 ZONE-4A, TRUNK-2 (PAHARI STP)

PURPOSE OF ISSUE		SCALE :- H-1000, V-200	
DETAILED PROJECT REPORT (SEWERAGE)		SHEET SIZE :- A3	
BY	DATE OF FIRST ISSUE	BY	DATE OF FIRST ISSUE
AH	SEPTEMBER 2013	RP	SEPTEMBER 2013
JR	SEPTEMBER 2013	RP	SEPTEMBER 2013
CR	SEPTEMBER 2013	CR	SEPTEMBER 2013
DISCIPLINE	DRAWING NO.	DISCIPLINE	DRAWING NO.
PH	Z4A-12-S-09	PH	Z4A-12-S-09
00	00	00	00



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Drawing Base Reference:
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV/	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP

AMENDMENTS



BIHAR URBAN INFRASTRUCTURE DEVELOPMENT CORPORATION

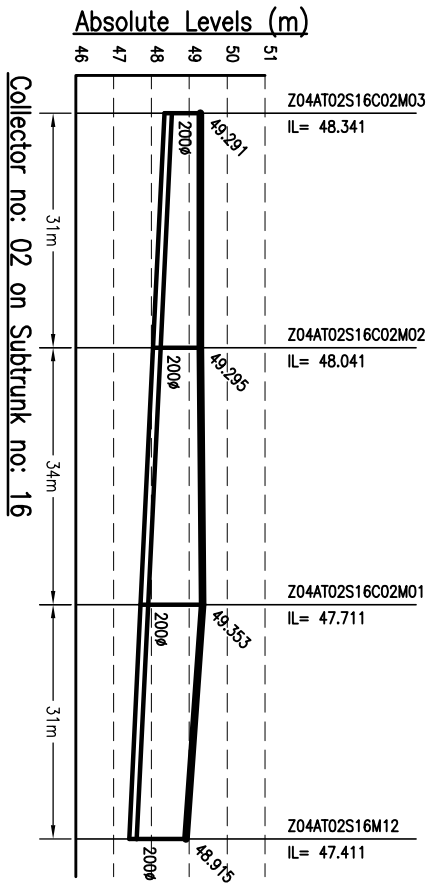
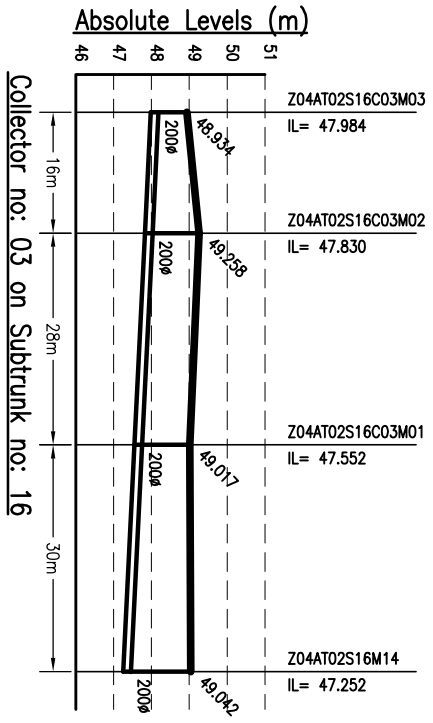
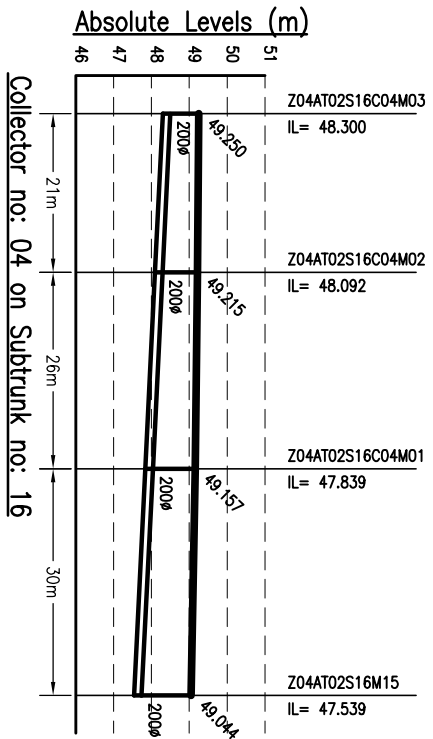
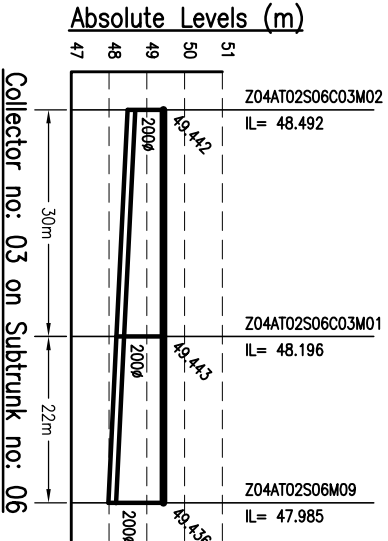
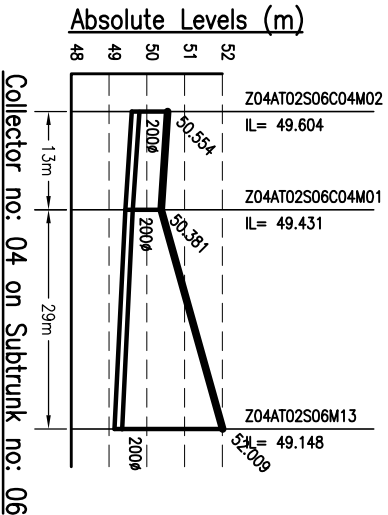
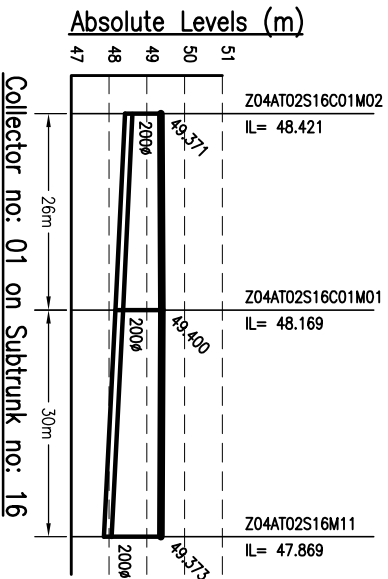
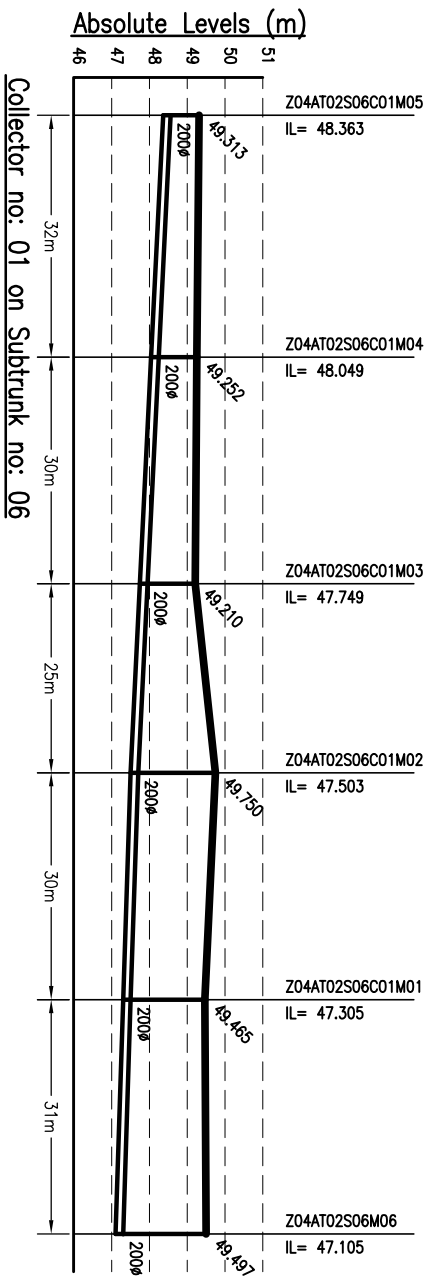
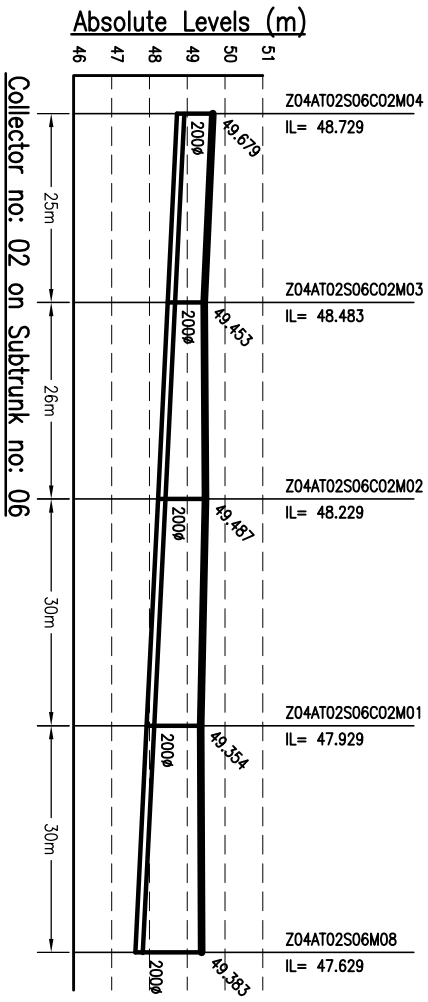
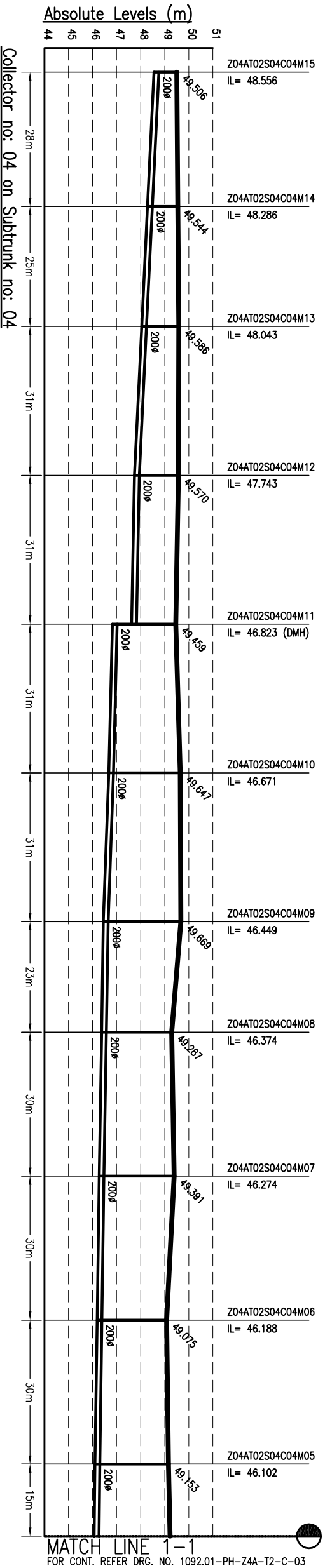
PREPARATION OF DETAILED PROJECT REPORTS (DPRs) & BID DOCUMENTS;
TENDERING FOR EXECUTION;
CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

CONSULTANT:-
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SEWERAGE L-SECTION OF COLLECTOR ZONE-4A, TRUNK-2 (SPS-B)

DATE	BY	DATE OF ISSUE
MAY 2013	SKS	MAY 2013
MAY 2013	JP	MAY 2013
MAY 2013	CR	MAY 2013

JOB NO. 1092.01 PH Z4A-12-C-01 00



MATCH LINE 1-1
FOR CONT. REFER DRG. NO. 1092.01-PH-Z4A-T2-C-03

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4. REFER DRAWING NO. T-491 & 1092.01-PH-S-01 TO 491 FOR LOCATION OF MANHOLE AND OTHER DETAILS.

Drawing Base Reference:
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

NO	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP

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URBAN INFRASTRUCTURE DEVELOPMENT CORPORATION
BIHAR

PREPARATION OF DETAILED PROJECT REPORTS (DPRs) & BID DOCUMENTS;
TENDERING FOR EXECUTION;
CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

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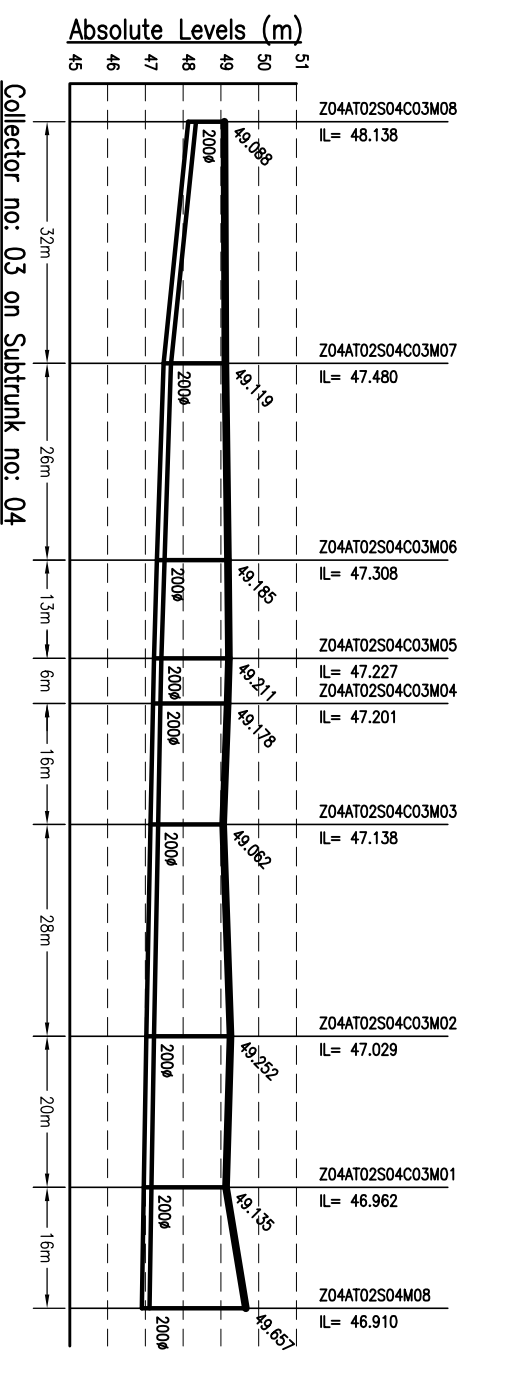
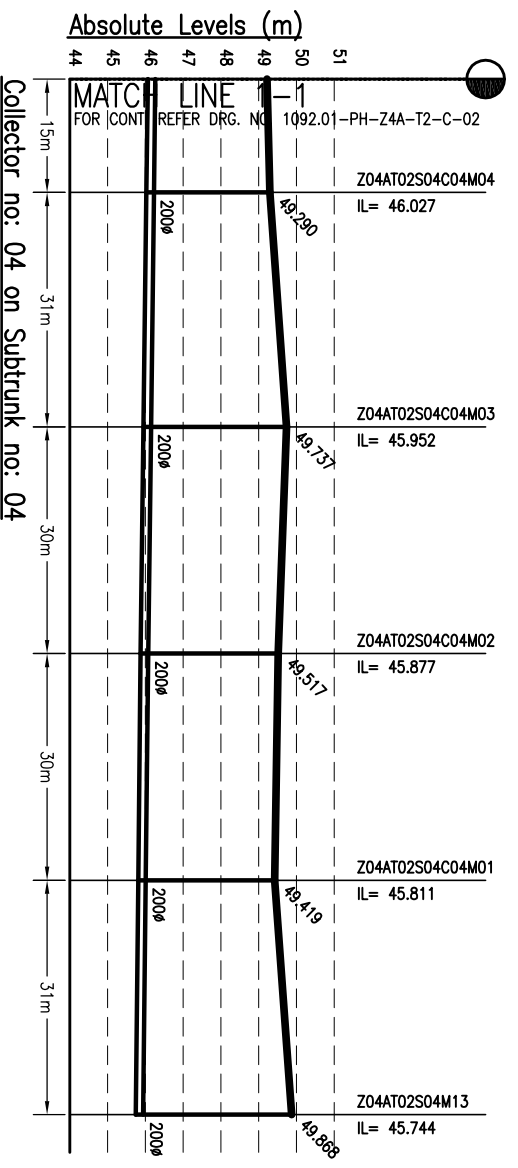
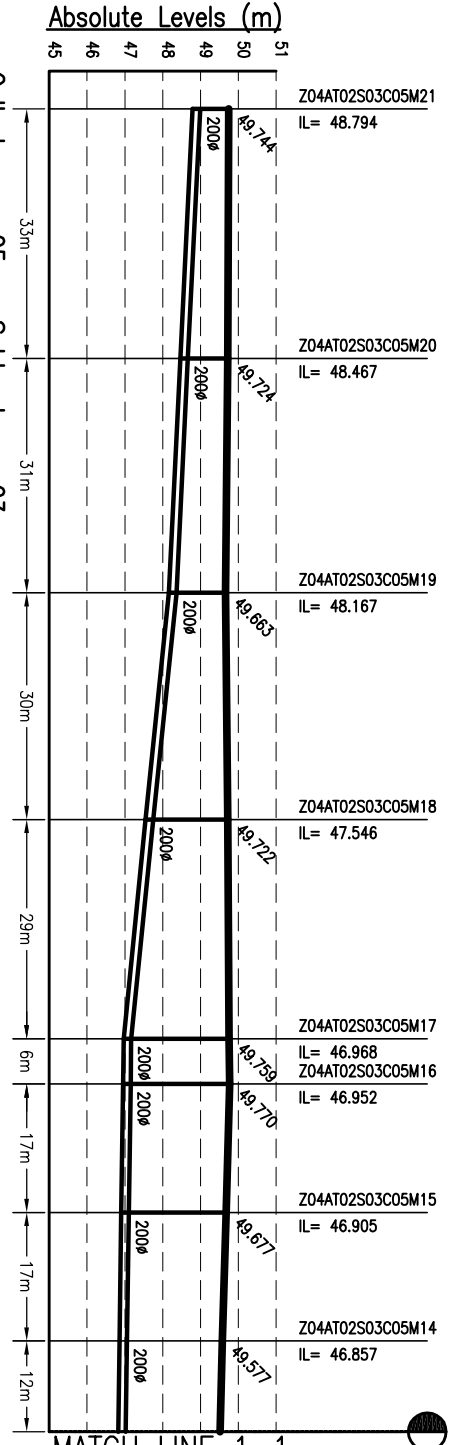
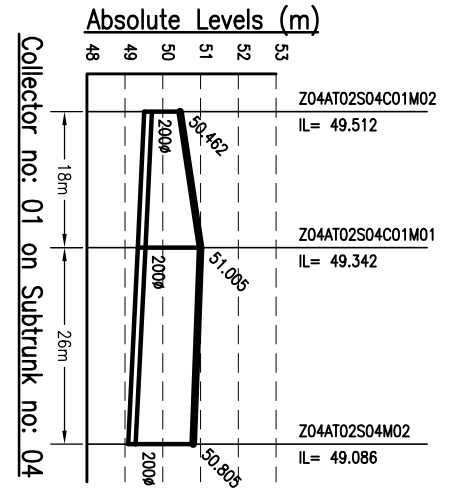
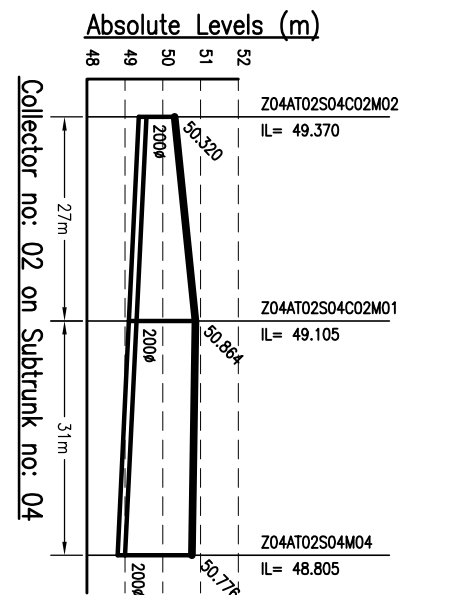
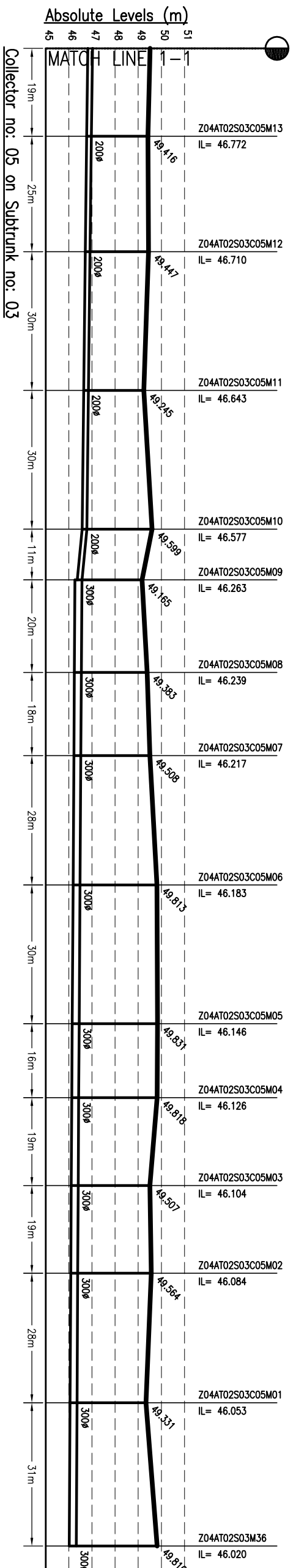
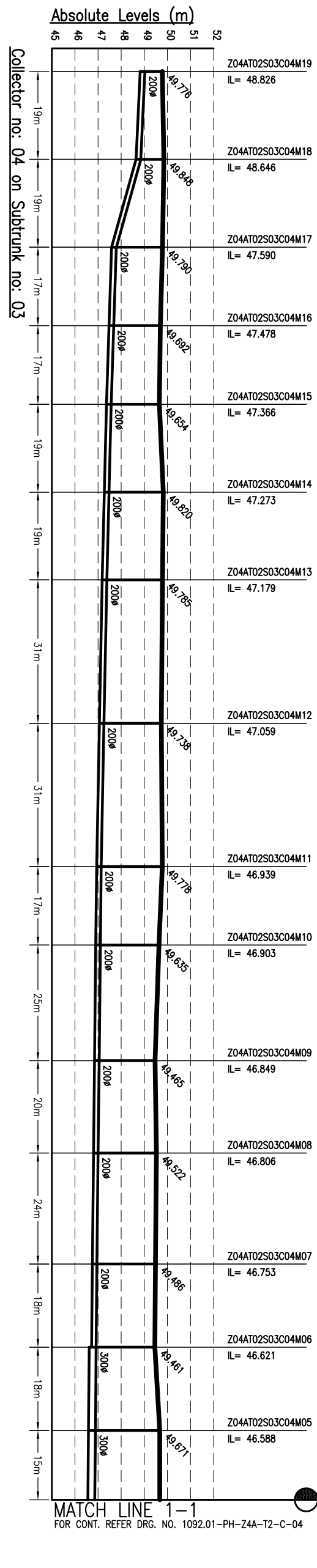
DRAWING TITLE
SEWERAGE
L-SECTION OF COLLECTOR
ZONE-4A, TRUNK-2 (SPS-B)
(Part - 2 of 7)

PURPOSE OF ISSUE
DRAFT DETAILED PROJECT REPORT

SCALE: H-1000, V-200
SHEET SIZE: A3

NO.	DATE	BY	DATE OF NEXT ISSUE
1	MAY 2013	SKS	MAY 2013
2	MAY 2013	JP	MAY 2013
3	MAY 2013	CR	MAY 2013

1092.01 PH Z4A-T2-C-02 00



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Drawing Base Reference:-
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

AMENDMENTS

REV	DATE	NAME	DESCRIPTION	CHKD
00	MA'13	SKS	DRAFT DRG. SUBMISSION	RP

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CLIENT:-
BHAR BIHAR URBAN INFRASTRUCTURE DEVELOPMENT CORPORATION

PROJECT:-
**PREPARATION OF DETAILED PROJECT REPORTS (DPRs) & BID DOCUMENTS;
TENDERING FOR EXECUTION;
CONSTRUCTION OF SEWERAGE & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM**

CONSULTANT:-
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Ph: +91 120 2516165, Fax No.: +91 120 2515745
www.menhardtdesign.com, Email: info@menhardtdesign.com

DRAWING TITLE:
SEWERAGE L-SECTION OF COLLECTOR ZONE-4A, TRUNK-2 (SPS-B)

PURPOSE OF ISSUE:
DRAFT DETAILED PROJECT REPORT

SCALE:- H-1000, V-200

SHEET SIZE:- A3

DATE OF FIRST ISSUE:
MAY 2013

DATE OF THIS ISSUE:
MAY 2013

DESIGNED BY:
JR

CHECKED BY:
RP

APPROVED BY:
CRR

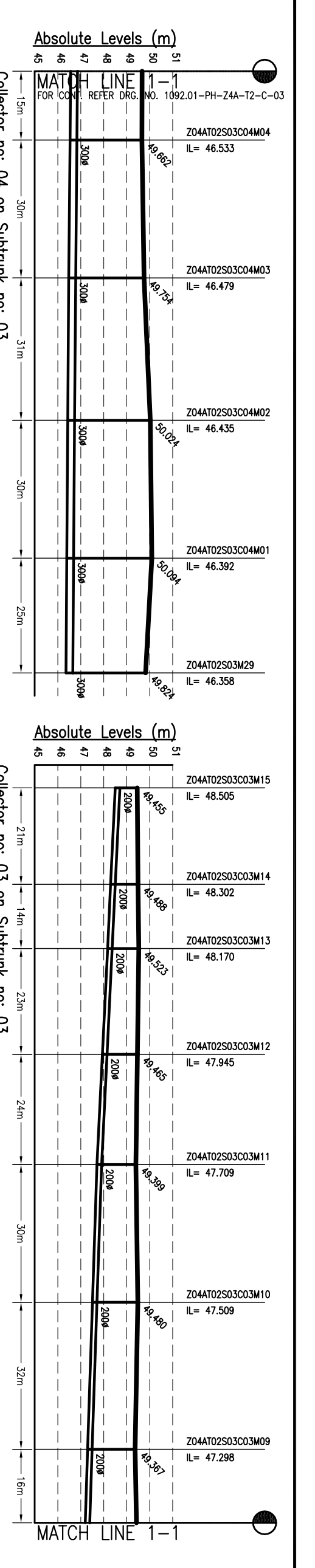
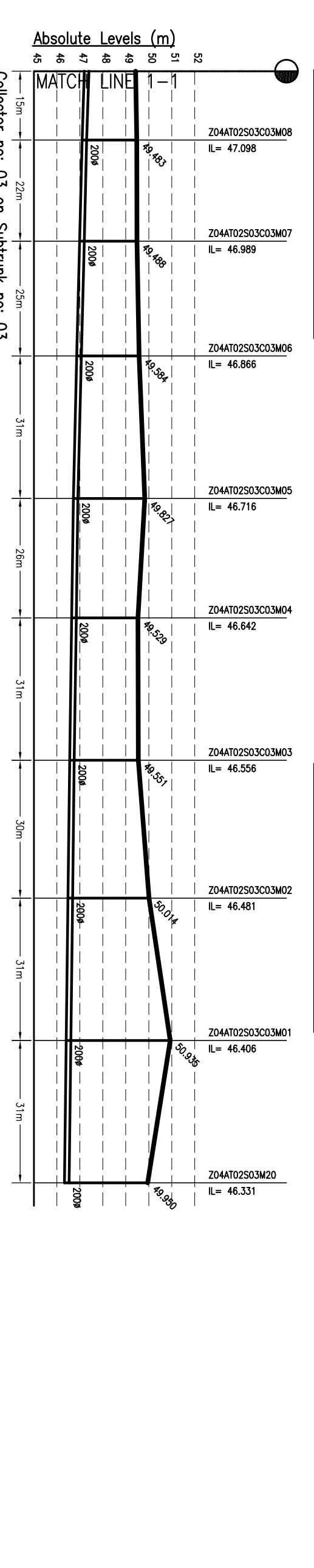
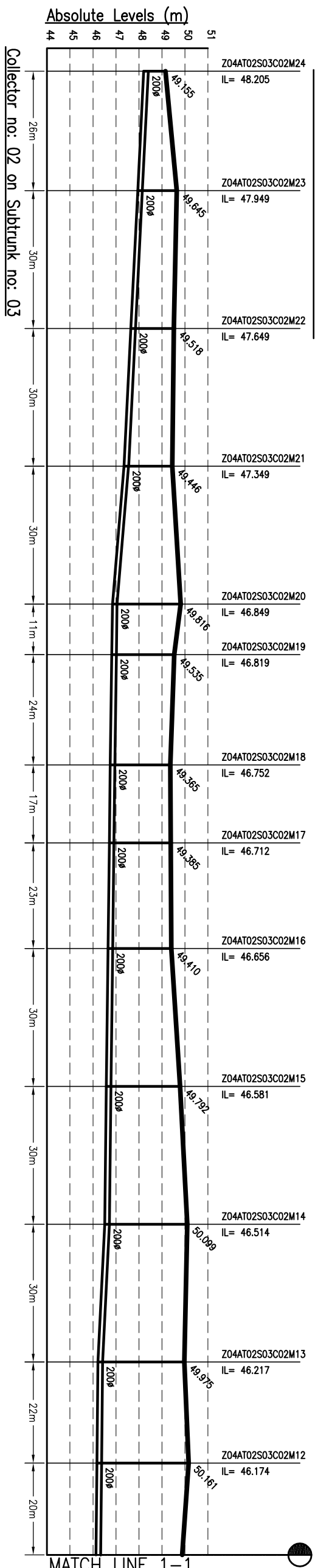
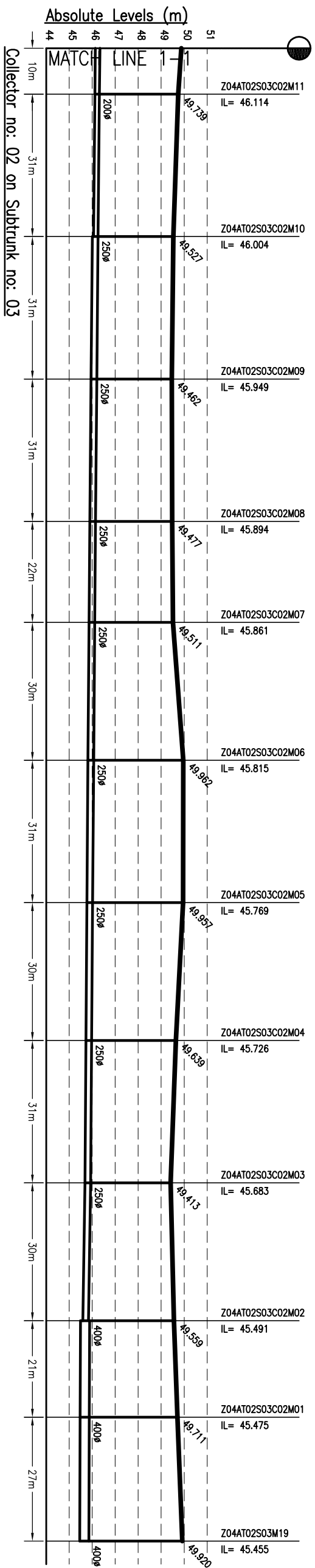
DATE:
MAY 2013

JOB NO.:
1092.01

DISCIPLINE:
PH

DRAWING NO.:
Z4A-T2-C-03

REVISION:
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Drawing Base Reference:
PHC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	15/12/09	SKS	DRAFT DRR SUBMISSION	RP

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BIHAR

PROJECT:-
**PREPARATION OF DETAILED PROJECT REPORTS (DPRs) & BID DOCUMENTS;
TENDERING FOR EXECUTION;
CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM**

SCALE:- H-1/1000, V-2/200

DATE OF FIRST ISSUE: MAY 2013

DATE OF THIS ISSUE: MAY 2013

DISCIPLINE: PH

DRAWING NO.: Z4A-T2-C-04

REVISION: 00

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URBAN INFRASTRUCTURE DEVELOPMENT CORPORATION
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TENDERING FOR EXECUTION;
CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM**

SCALE:- H-1/1000, V-2/200

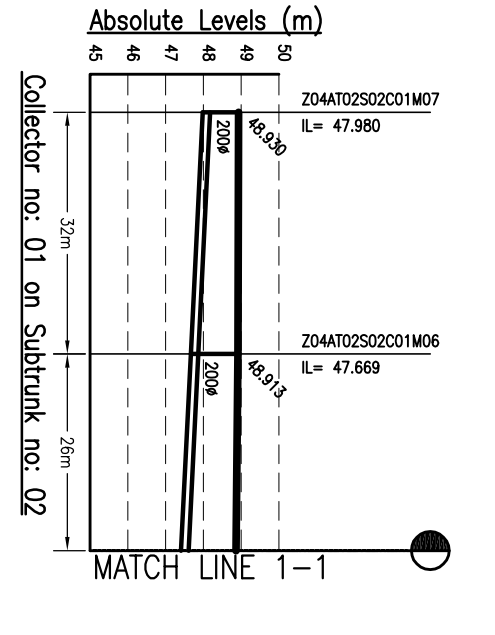
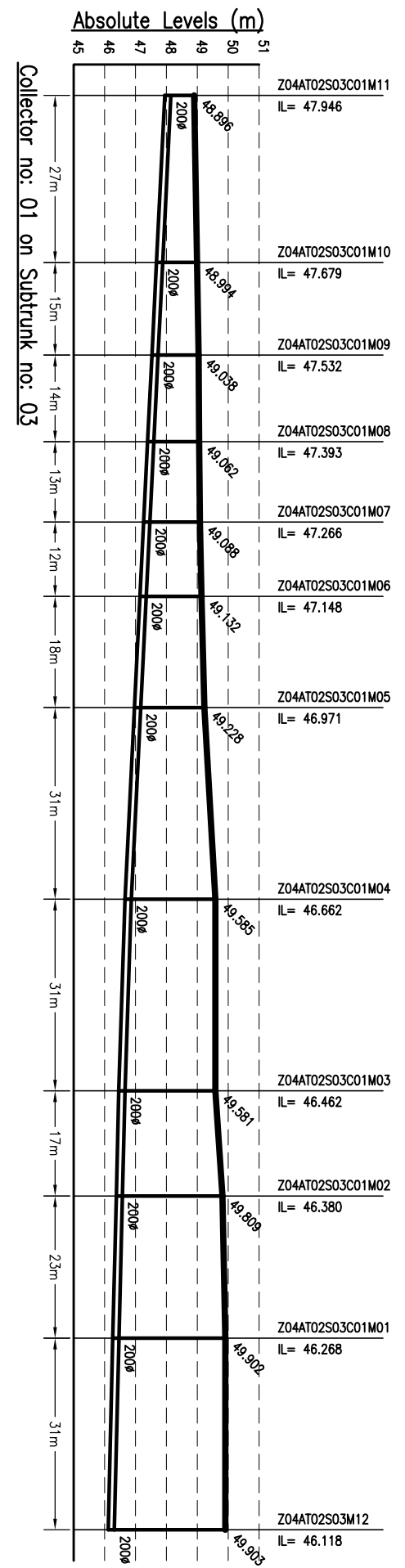
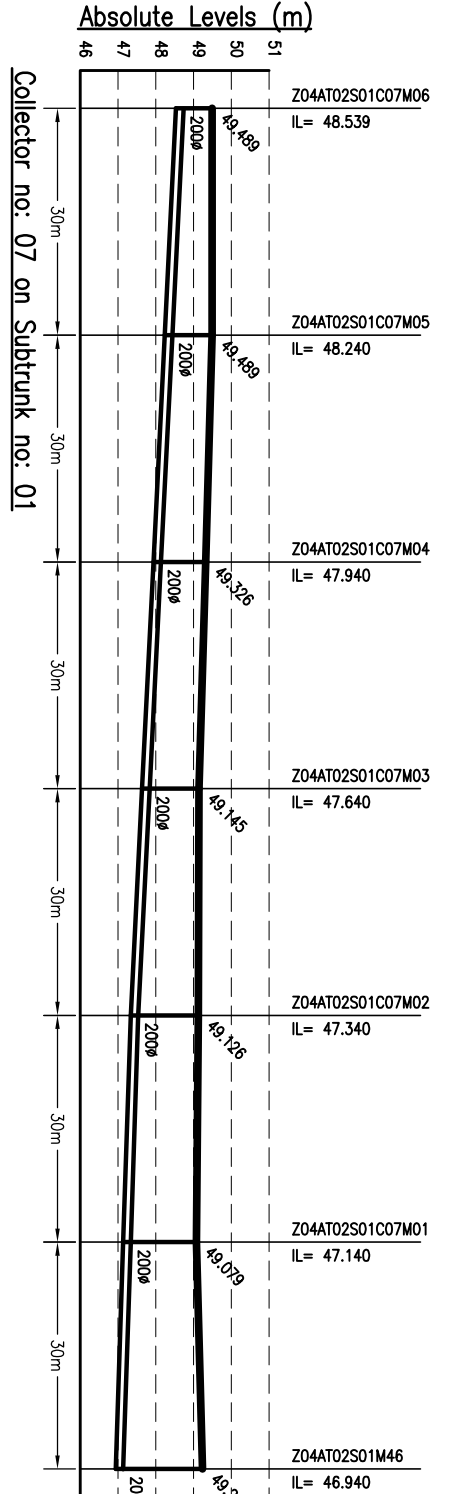
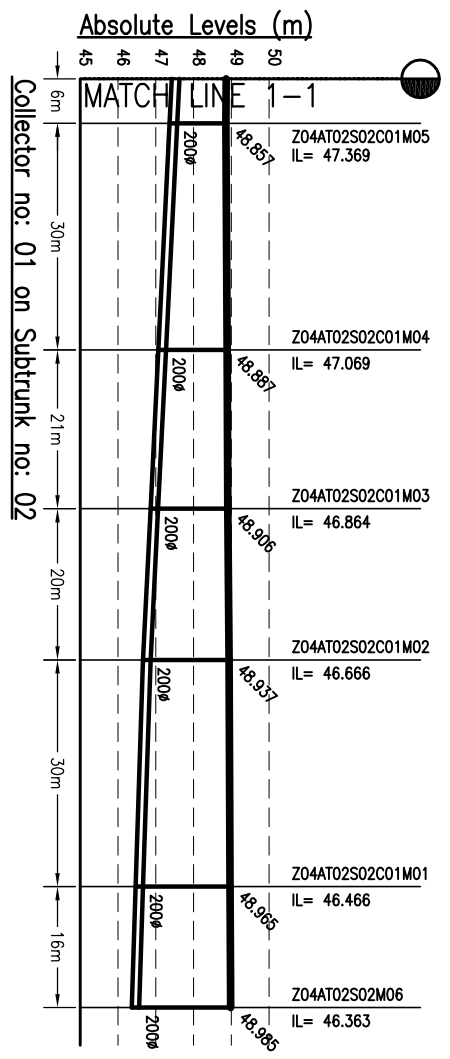
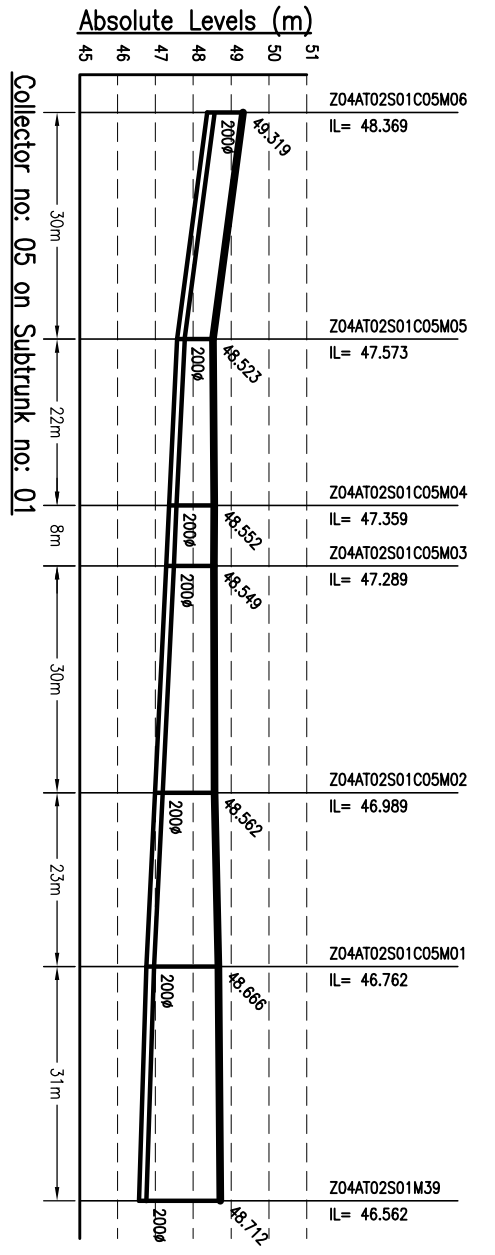
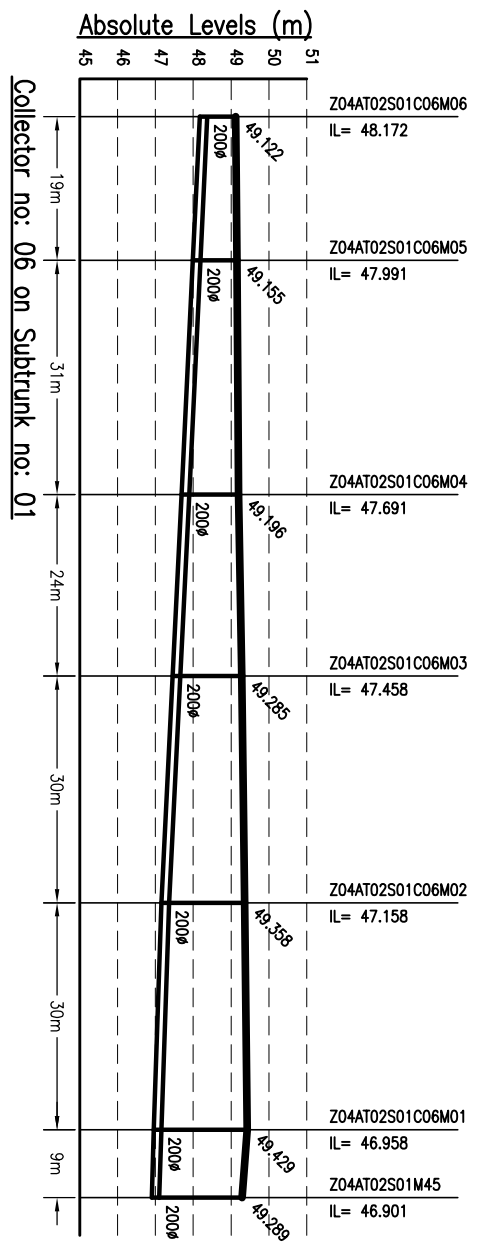
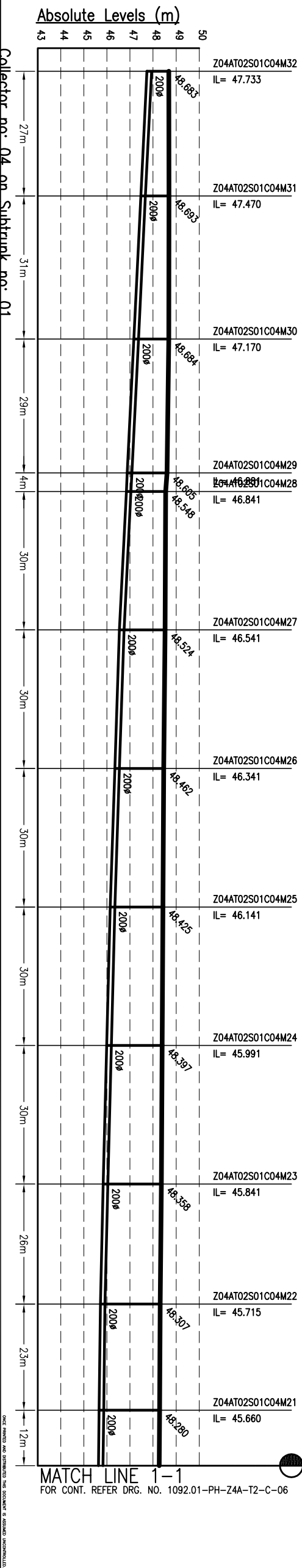
DATE OF FIRST ISSUE: MAY 2013

DATE OF THIS ISSUE: MAY 2013

DISCIPLINE: PH

DRAWING NO.: Z4A-T2-C-04

REVISION: 00



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Drawing Base Reference:
PHC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV/	DATE	NAME	DESCRIPTION	CHKD
00	MAN'13	SKS	DRAFT DPR SUBMISSION	RP

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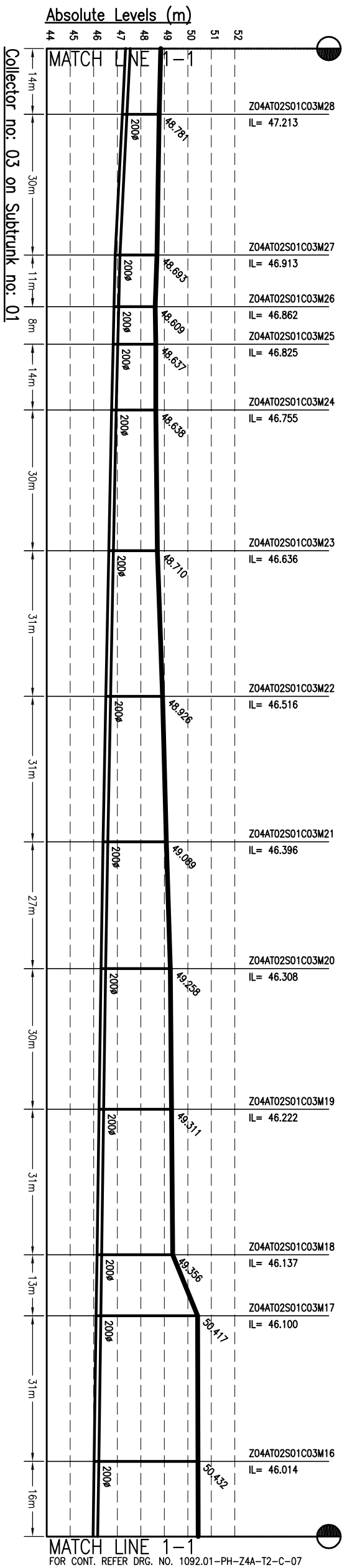
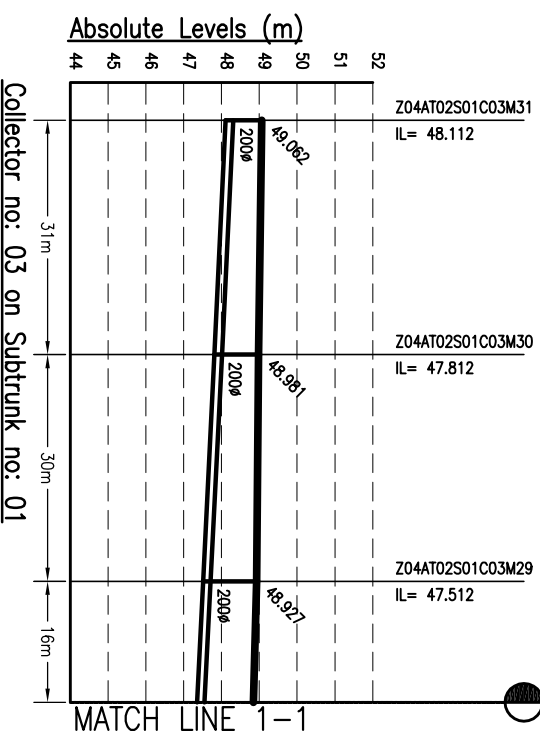
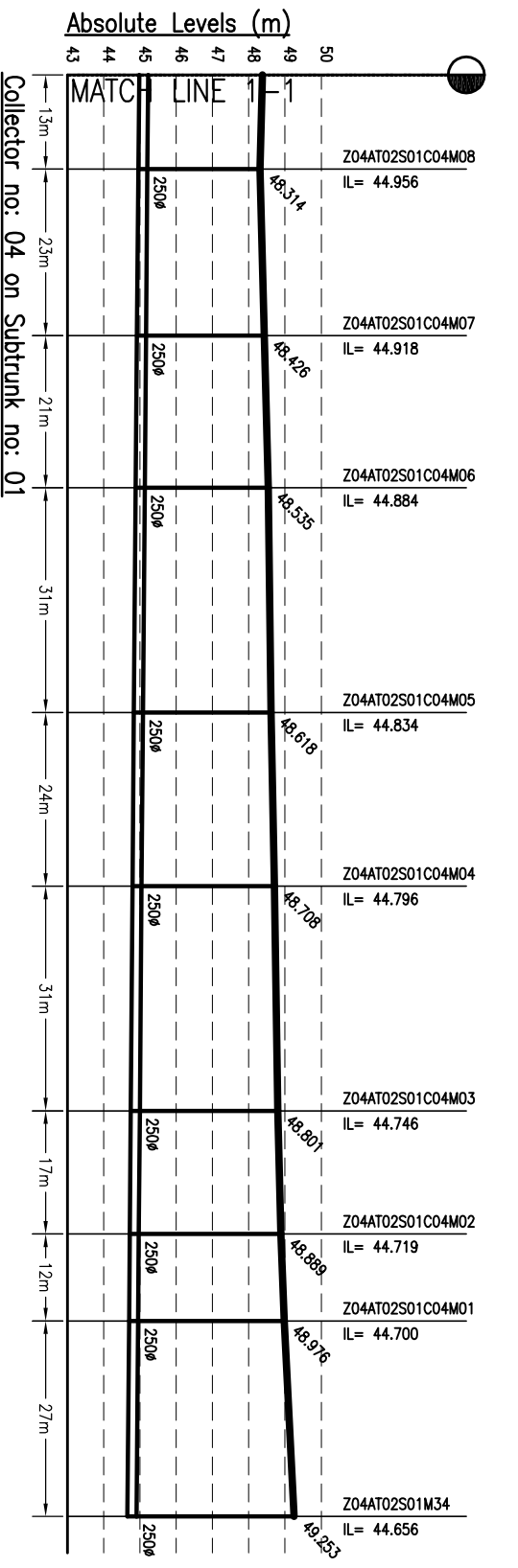
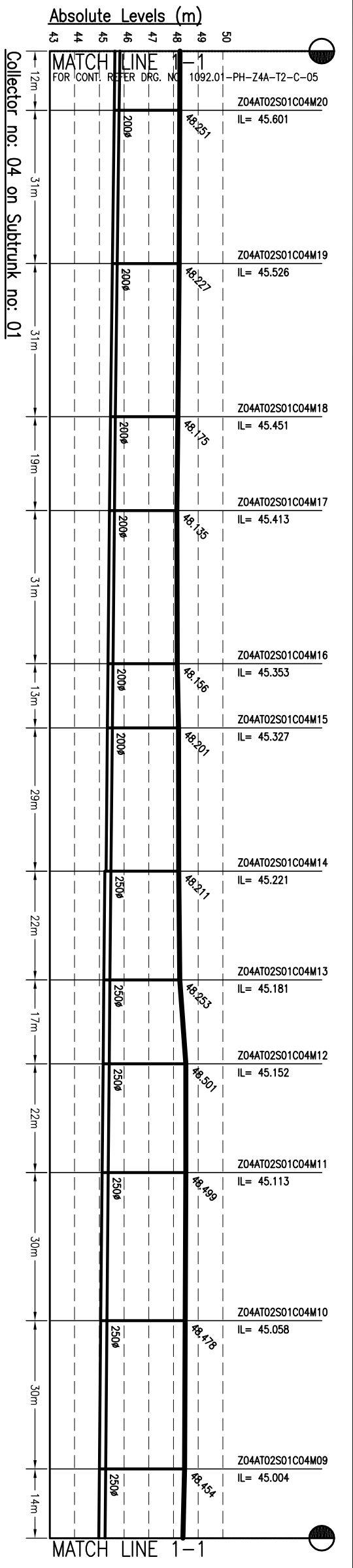


CLIENT:
BIHAR
URBAN INFRASTRUCTURE
DEVELOPMENT CORPORATION

PROJECT:
PREPARATION OF DETAILED
PROJECT REPORTS (DPRs) & BID
DOCUMENTS;
TENDERING FOR EXECUTION;
CONSTRUCTION SUPERVISION &
QUALITY CONTROL OF SEWERAGE &
DRAINAGE PROJECTS OF PATNA
UNDER JNNURM

CONSULTANT:
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DRAWING TITLE		SCALE	
SEWERAGE		H-1000, V-200	
L-SECTION OF COLLECTOR		AS	
ZONE-4A, TRUNK-2 (SPS-B)		(Part - 5 of 7)	
PURPOSE OF ISSUE		SHEET SIZE	
DRAFT DETAILED PROJECT REPORT		A3	
DRAWN BY		DATE OF FIRST ISSUE	
SKS		MAY 2013	
DESIGNED BY		DATE OF SECOND ISSUE	
JR		MAY 2013	
CHECKED BY		DATE OF THIRD ISSUE	
RP		MAY 2013	
APPROVED BY		DATE OF FOURTH ISSUE	
CRR		MAY 2013	
JOB NO.		DRAWING NO.	
1092.01 PH		Z4A-T2-C-05	
DISCIPLINE		REVISION	
PH		00	



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Drawing Base Reference:
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	15/12/09	SKS	DRAFT DRG SUBMISSION	RP

AMENDMENTS

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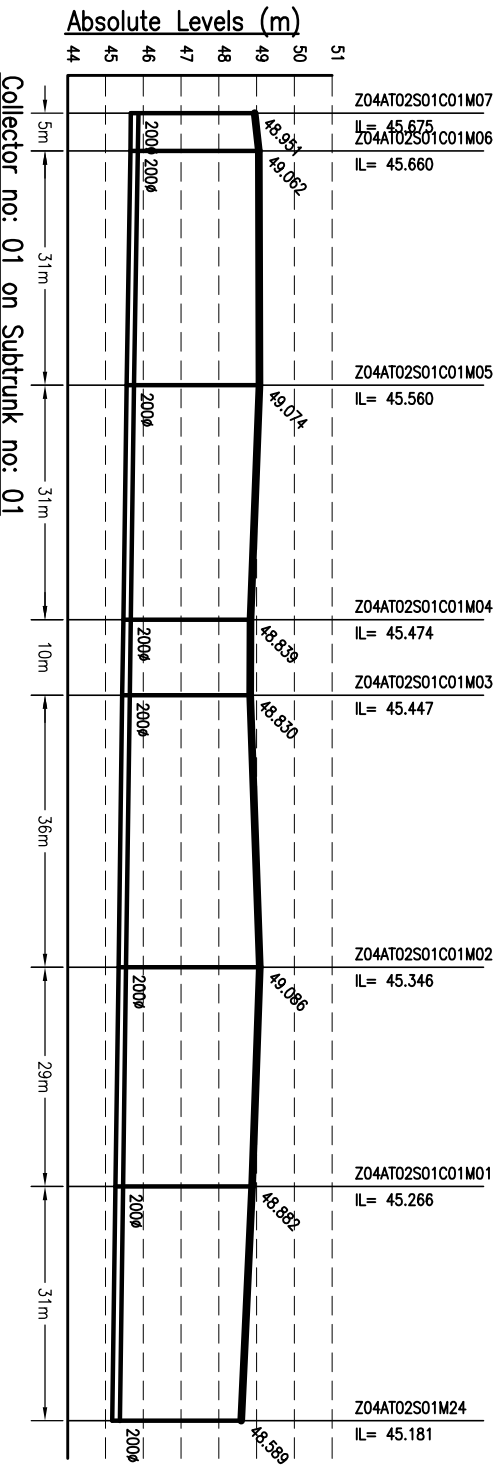
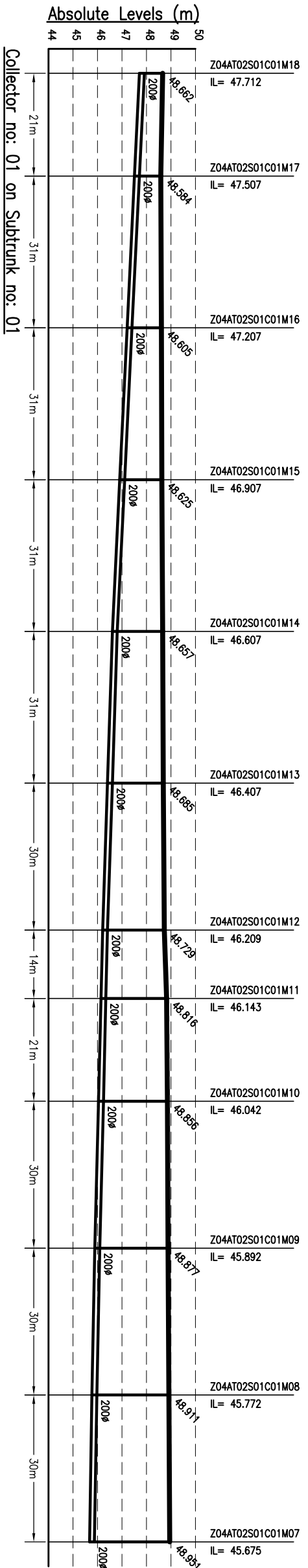
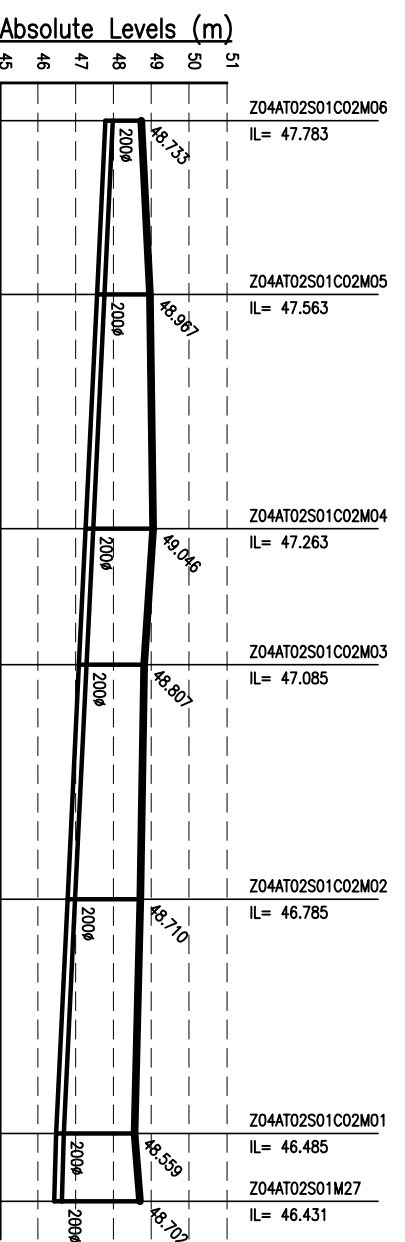
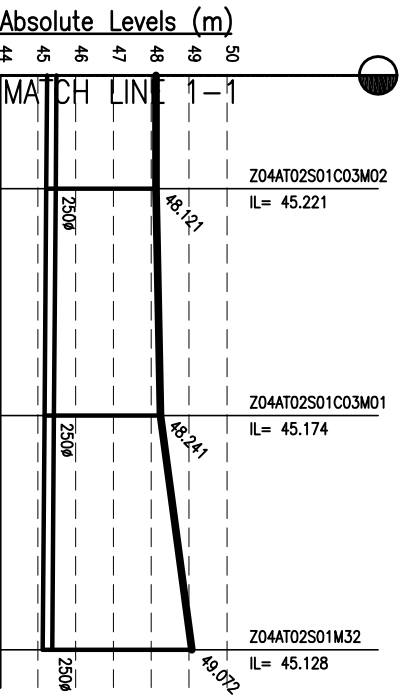
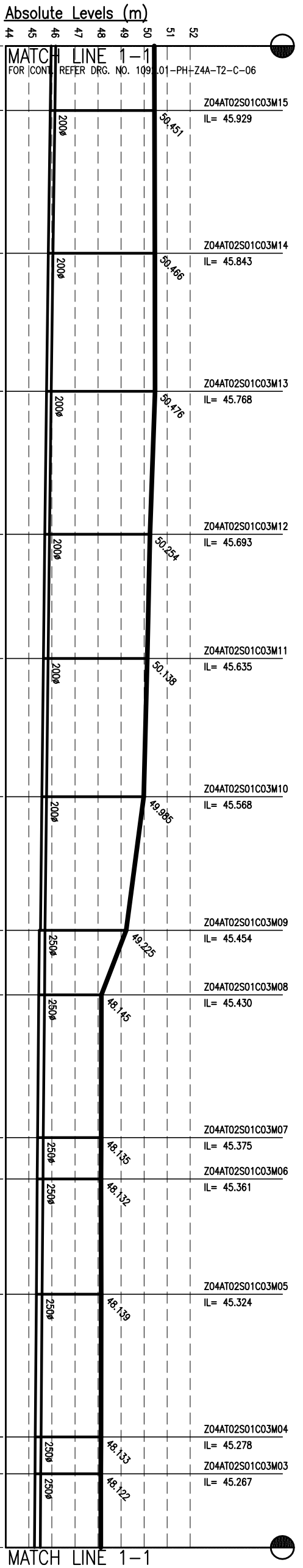
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 Phone: +91 91 2201011, Fax: +91 91 2201010
 Website: <http://www.bidc.co.in>

PROJECT:-
 PREPARATION OF DETAILED
 PROJECT REPORTS (DPRs) & BID
 DOCUMENTS;
 TENDERING FOR EXECUTION;
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DRAWING TITLE
SEWERAGE
L-SECTION OF COLLECTOR
ZONE-4A, TRUNK-2 (SPS-B)
 (Part - 6 of 7)

PURPOSE OF ISSUE		SCALE
DRAFT	DETAILED PROJECT	H-1000, V-200
REWORK		
SHEET SIZE: A3		
BY	DATE OF FIRST ISSUE	
SKS	MAY 2013	
DESIGNED	BY	
JR	MAY 2013	
CHECKED	BY	
RP	MAY 2013	
APPROVED	BY	
CRR	MAY 2013	
JOB NO.	DISCIPLINE	DRAWING NO.
1092.01	PH	Z4A-T2-C-06
		REVISION
		00



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Drawing Base Reference:
PHC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAN'13	SKS	DRAFT DRP SUBMISSION	RP

AMENDMENTS



CLIENT:-
BIHARI INFRASTRUCTURES PRIVATE LIMITED
URBAN INFRASTRUCTURE DEVELOPMENT CORPORATION
BIHAR

PROJECT:-
PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS;
TENDERING FOR EXECUTION; CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JANNURUM

CONSULTANT:-
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www.mehindia.com; Email: info@mehindia.com

NO.	DISCIPLINE	DATE	REVISION
1092.01	PH	Z4A-T2-C-07	00

DRAWING TITLE
SEWERAGE L-SECTION OF COLLECTOR ZONE-4A, TRUNK-2 (SPS-B)

PURPOSE OF ISSUE
DRAFT DETAILED PROJECT REPORT

SCALE: H-1000, V-200

DATE OF ISSUE
MAY 2013

DATE OF FRESH ISSUE
MAY 2013

BY
SKS

CHECKED
JR

APPROVED
CRR

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Drawing Base Reference:-

PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV/	DATE	NAME	DESCRIPTION	CHKD
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Website: <http://www.bidc.co.in>

PROJECT:-
PREPARATION OF DETAILED PROJECT REPORTS (DPRs) & BID DOCUMENTS;
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CONSULTANT:-

MENHARDT

MENHARDT (SINGAPORE) PTE. LTD.
A-8, Sector-16, Noida-201301, India
Ph.: +91 120 2516166, Fax No.: +91 120 2515745
www.menhartindia.com, Email:-info@menhardtdelhi.com

DRAWING TITLE
SEWERAGE
L-SECTION OF COLLECTOR
ZONE-4A, TRUNK-2 (PAHARI STP)
(PART - 8 OF 08)

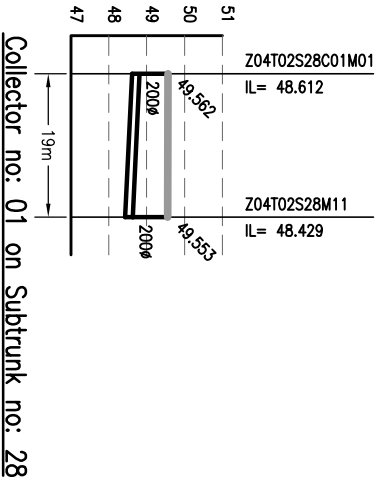
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(SEWERAGE)

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SHEET SIZE :- A3

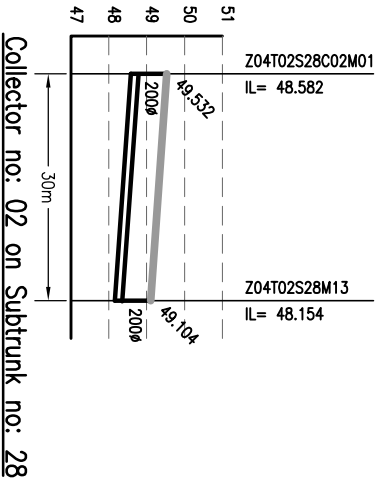
BY	DATE OF FIRST ISSUE
AH	SEPTEMBER 2013
JR	SEPTEMBER 2013
RP	SEPTEMBER 2013
CR	SEPTEMBER 2013

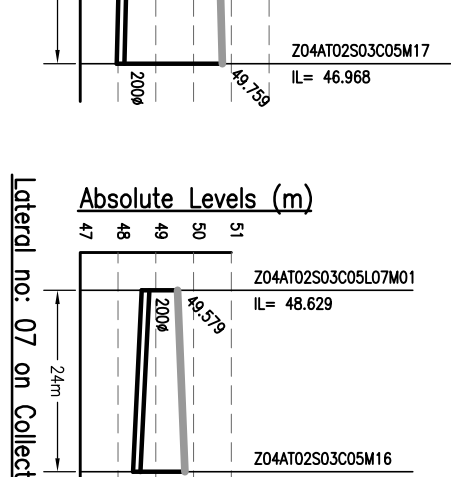
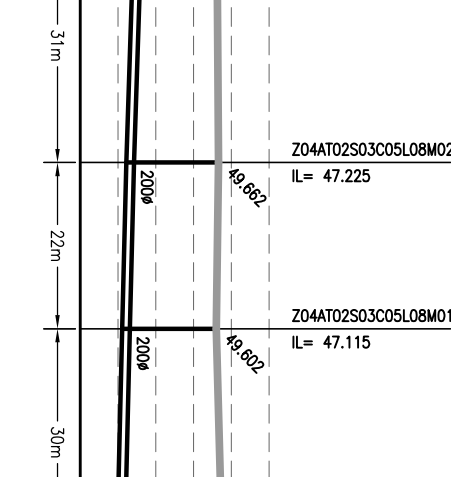
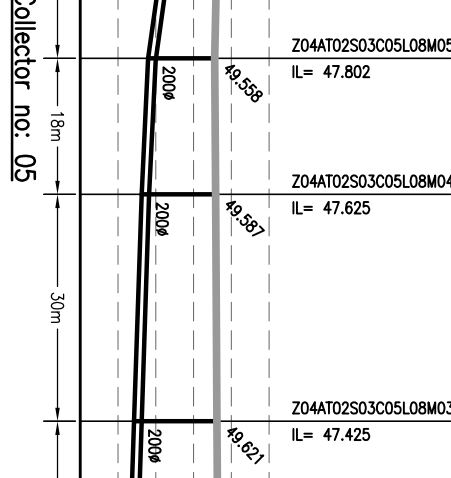
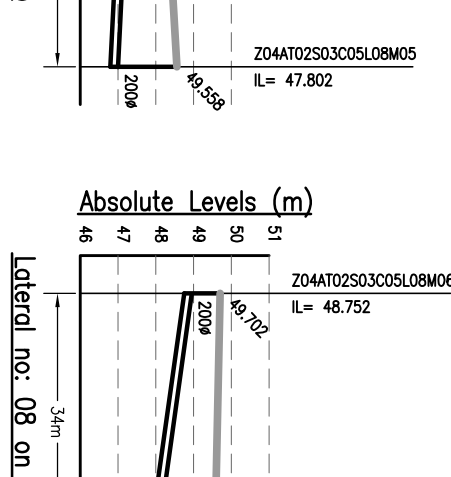
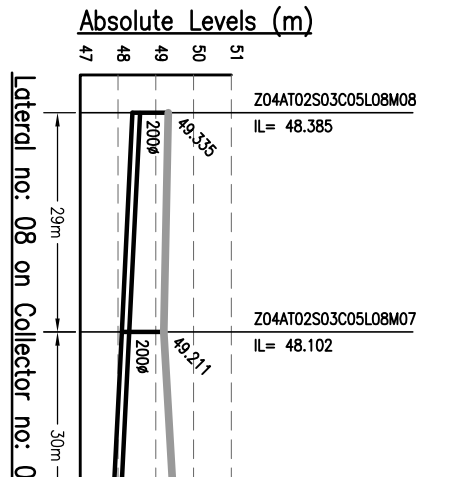
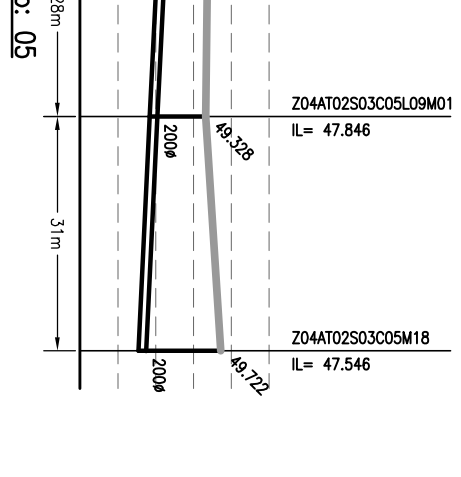
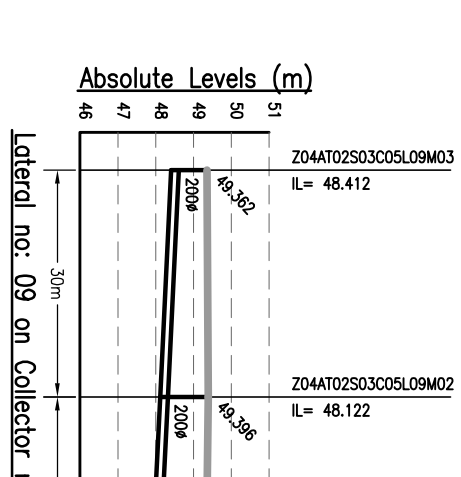
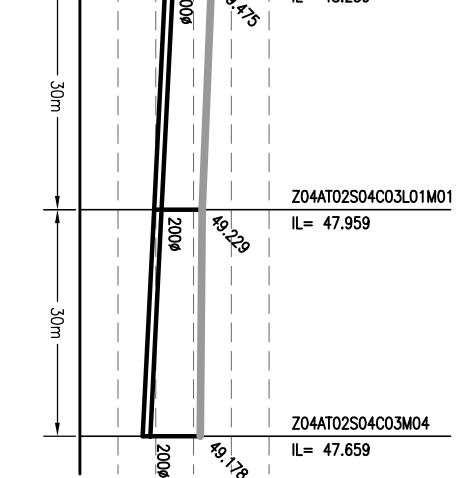
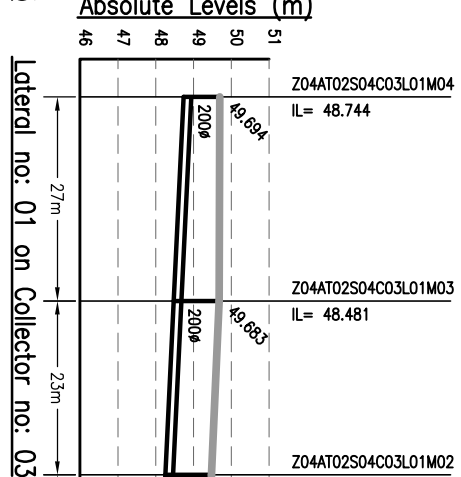
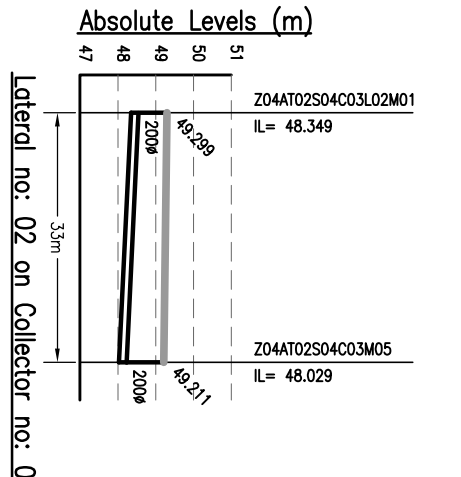
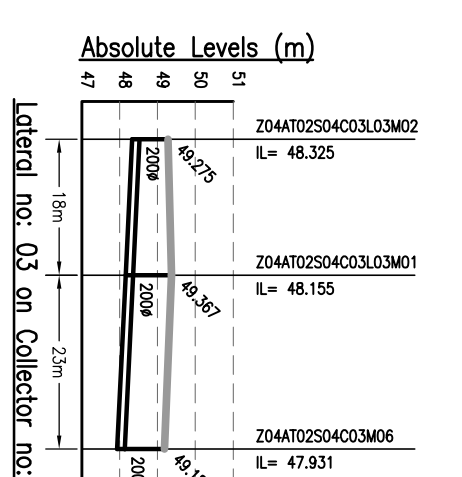
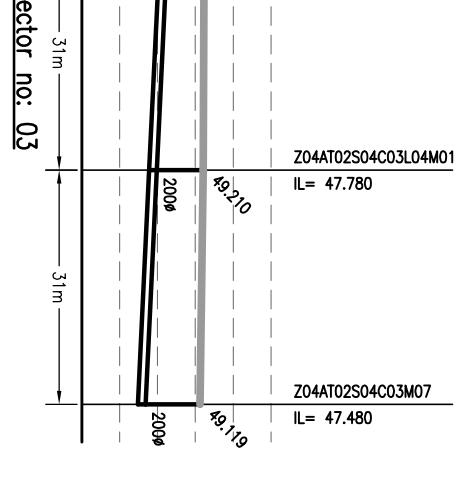
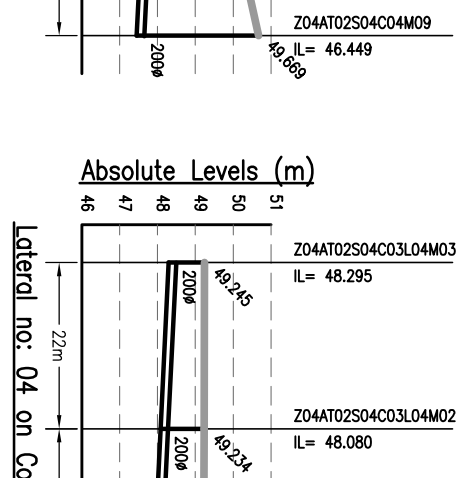
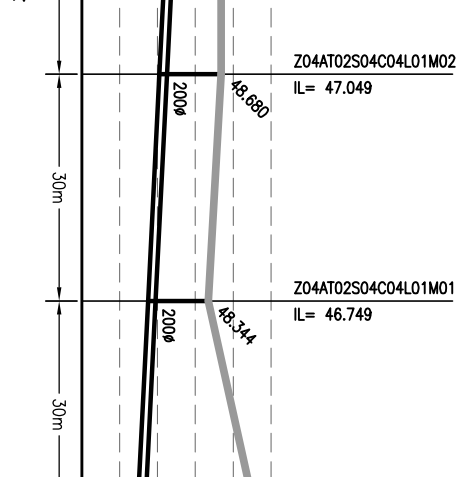
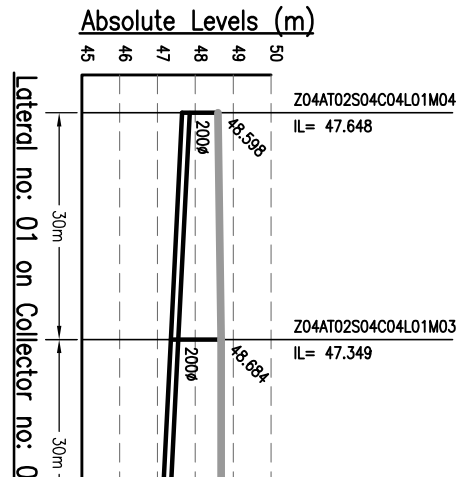
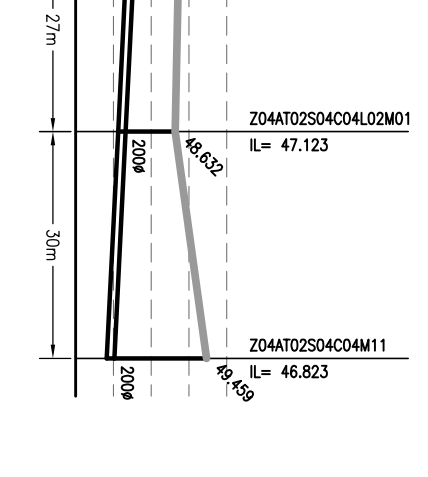
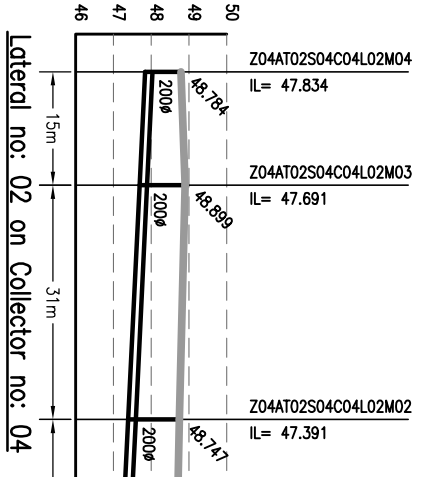
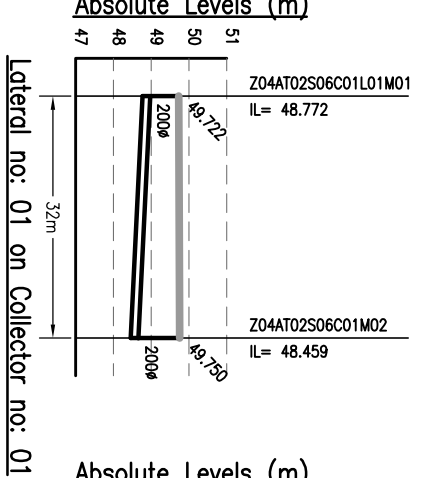
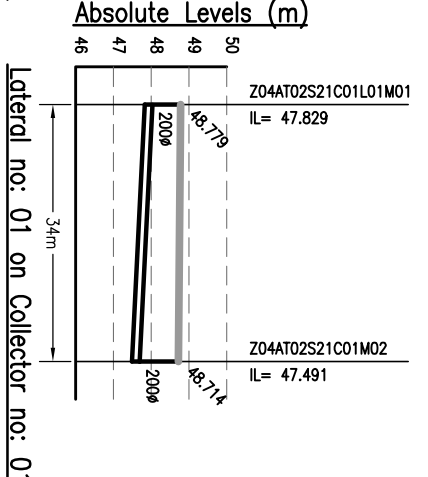
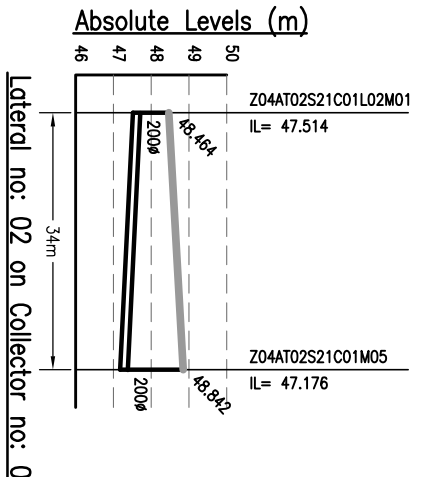
JOB NO.	DISCIPLINE	DRAWING NO.	REVISION
1092.01	PH	Z4A-12-C-08	00

Absolute Levels (m)



Absolute Levels (m)





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 3. UNDER NO CIRCUMSTANCES SHOULD DIMENSIONS BE SCALED FROM THIS DRAWING.
 4. REFER DRAWING NO. 1 TO 491 & 1092.01-PH-N-01 TO 491 FOR LOCATION OF MANHOLE AND OTHER DETAILS.

Drawing Base Reference:
PMC WORK ORDER 3499, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SNS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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CLIENT:-

303 Malacca Tower,
 10th Floor,
 100, Bras Basah Road,
 Singapore 179569
 Phone: +65 67201001 Fax: +65 67201003
 Website: www.meinhardt.com

PROJECT:-
 PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

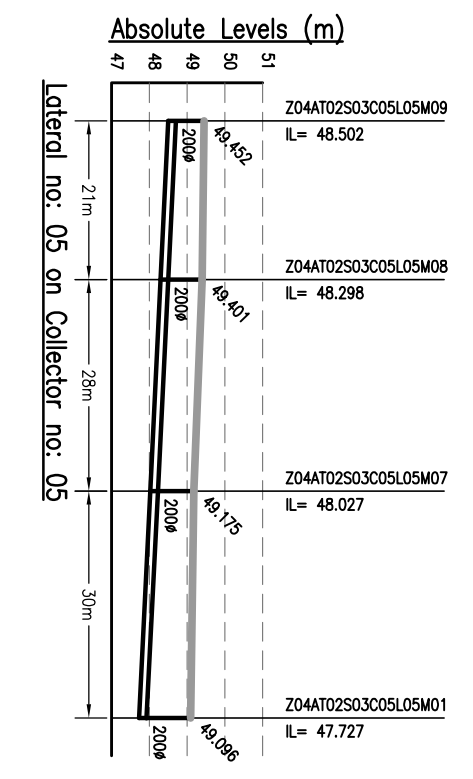
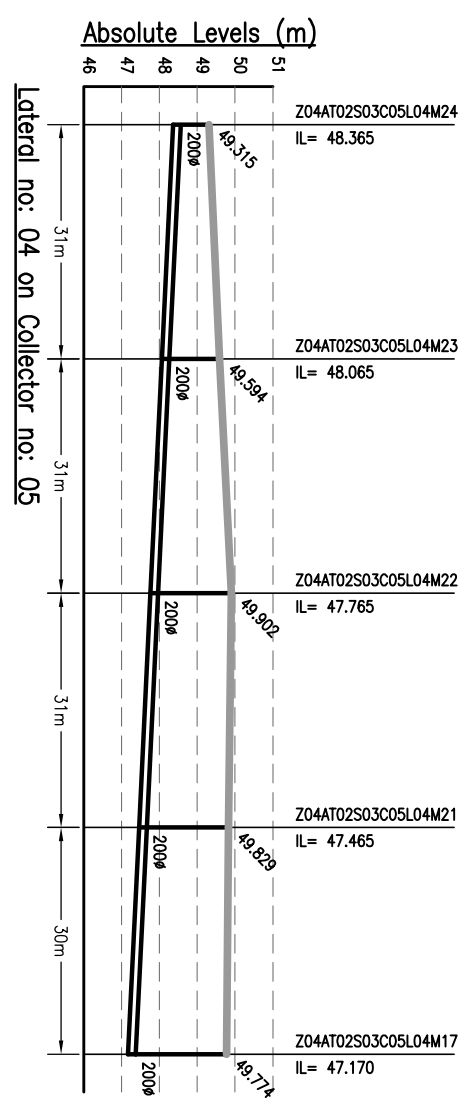
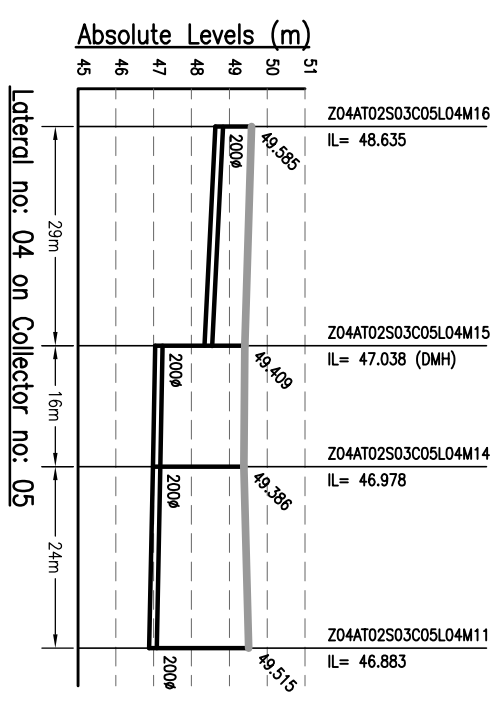
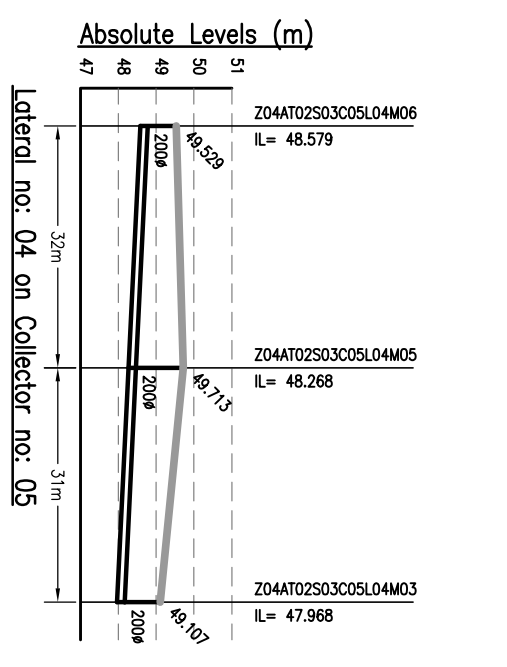
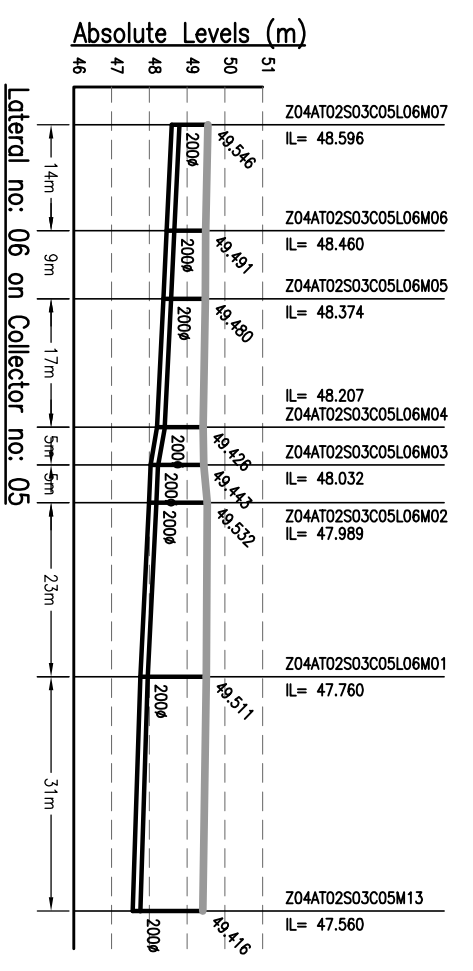
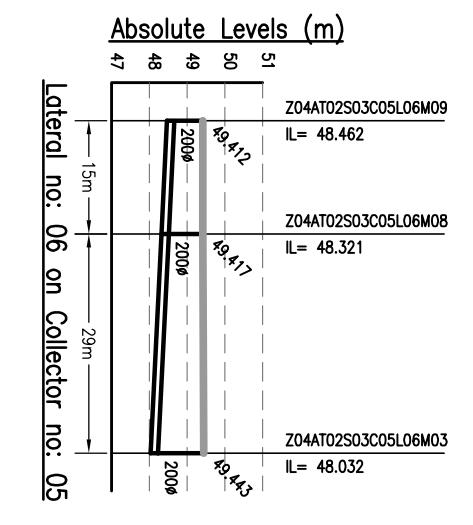
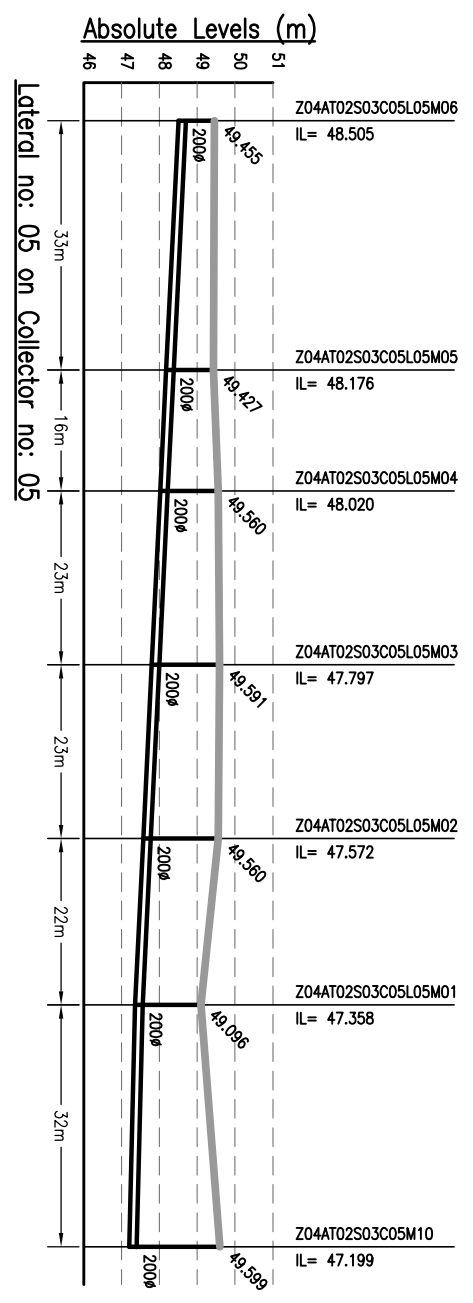
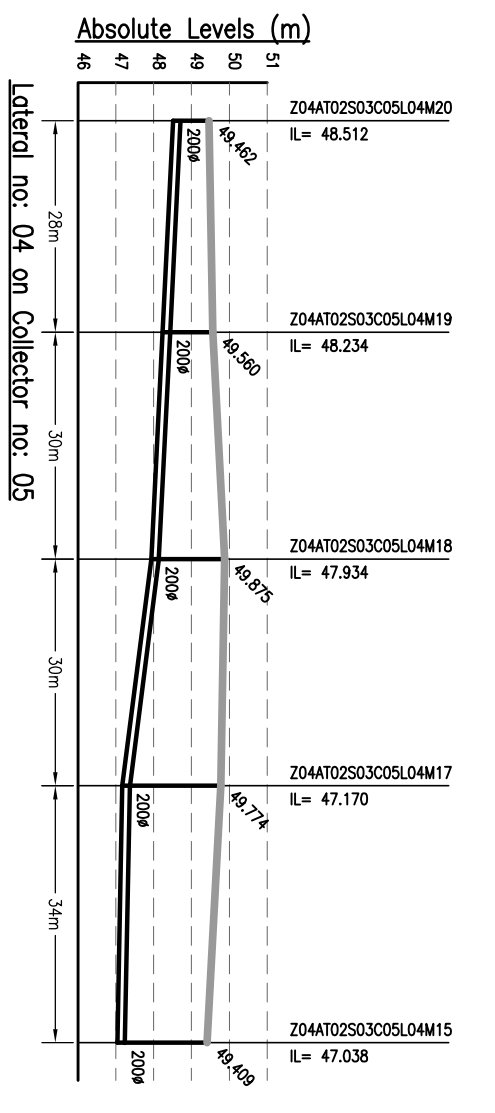
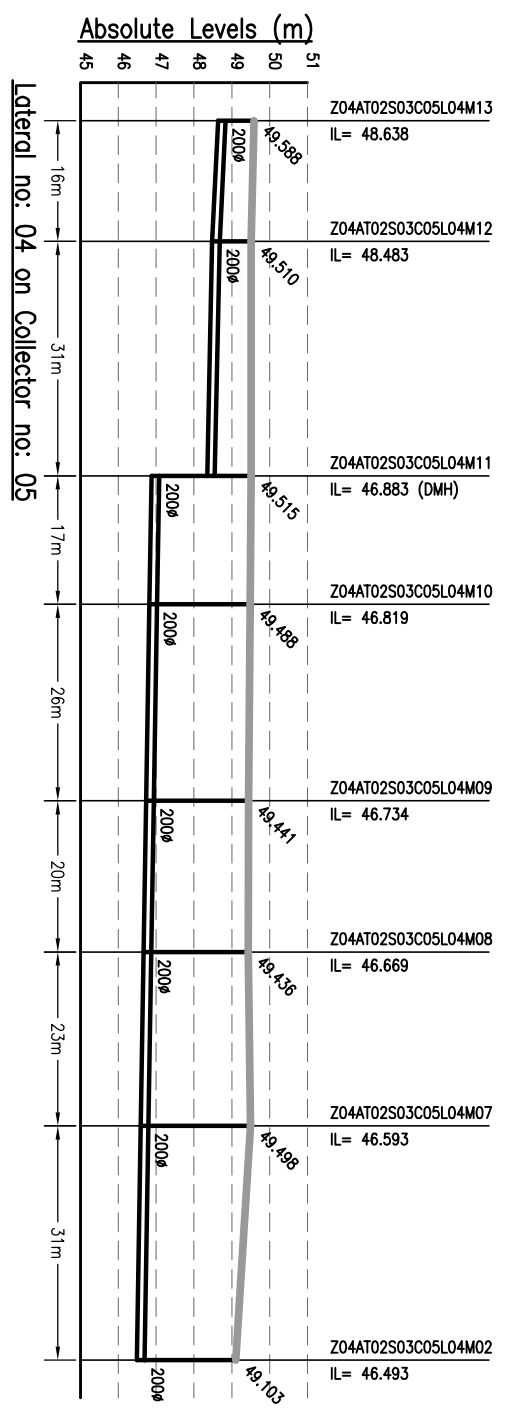
CONSULTANT:-

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 www.meinhardtdr.com, Email: info@meinhardtdr.com


DRAWING TITLE
 SEWERAGE
 L-SECTION OF LATERAL
 ZONE-4A, TRUNK-2 (SPS-B)
 (PART - 1 OF 11)

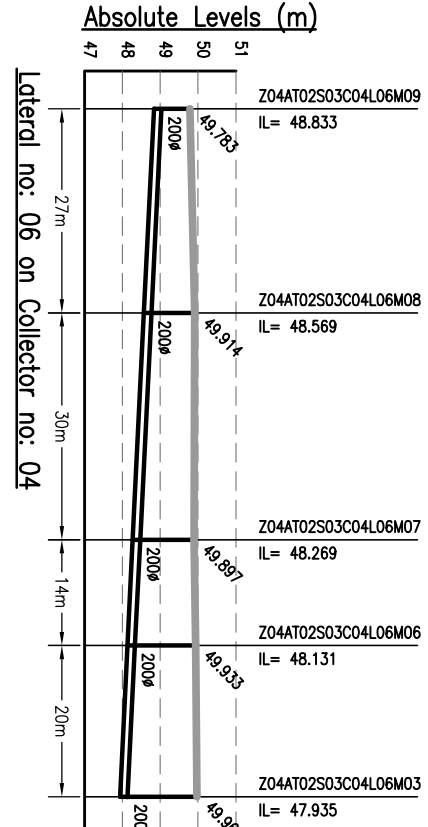
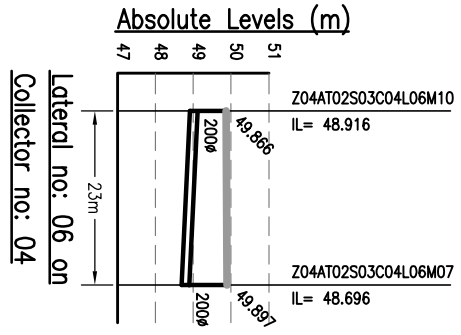
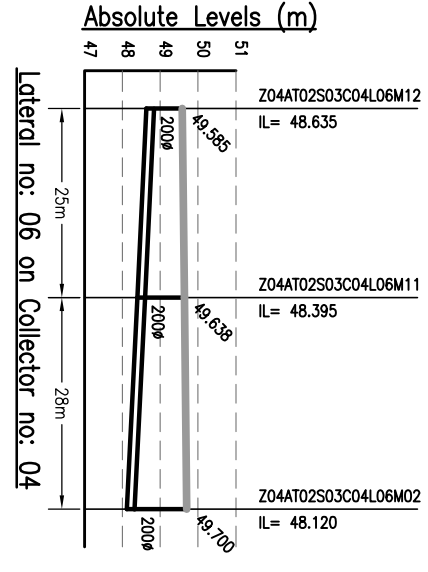
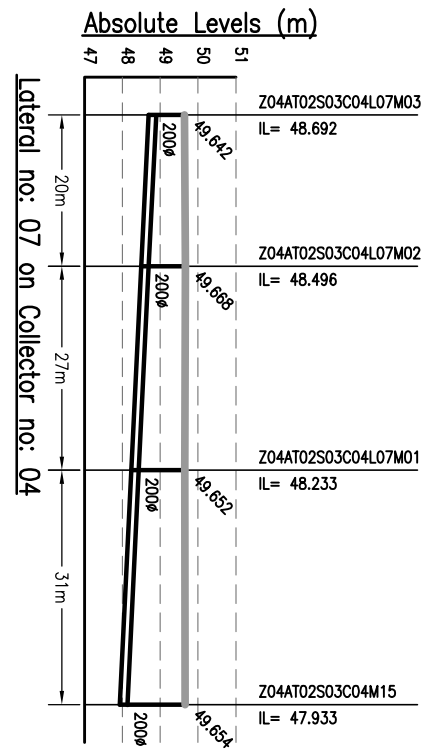
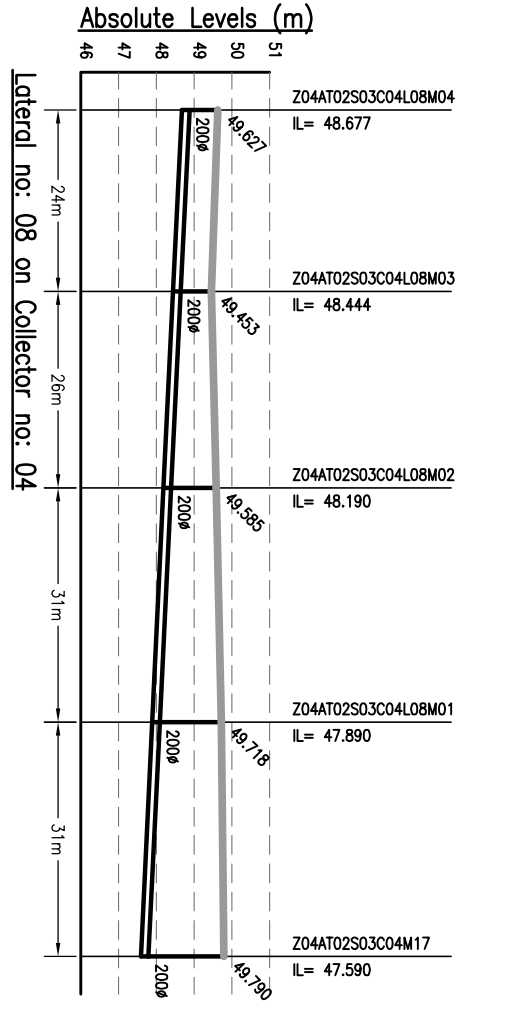
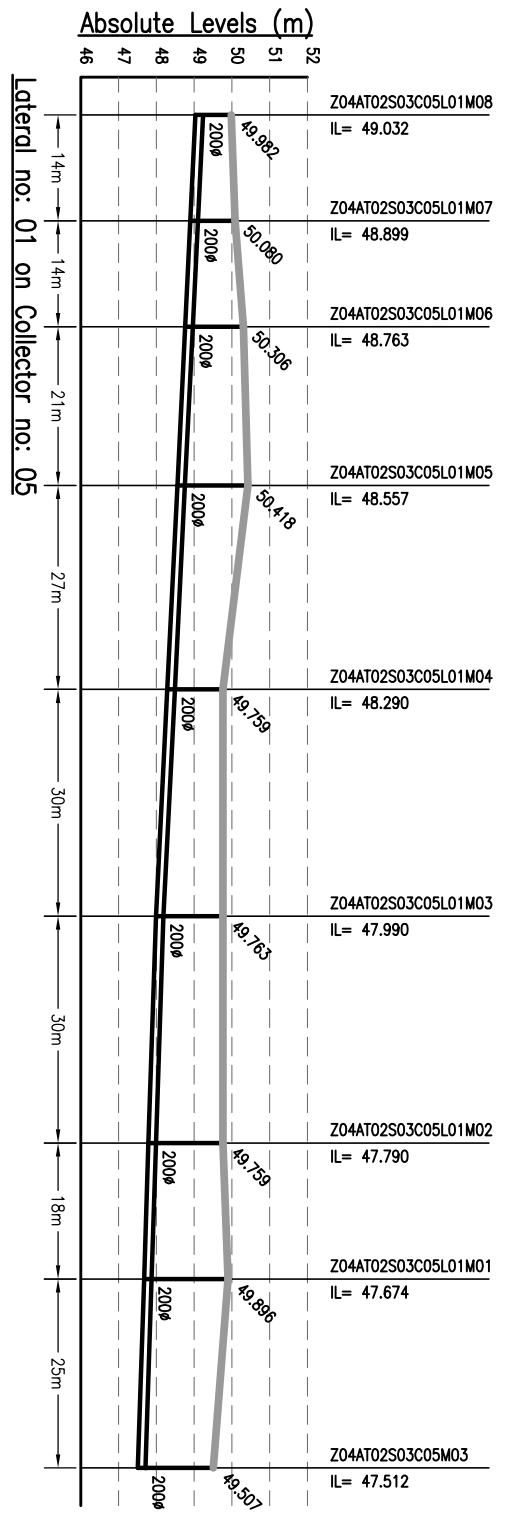
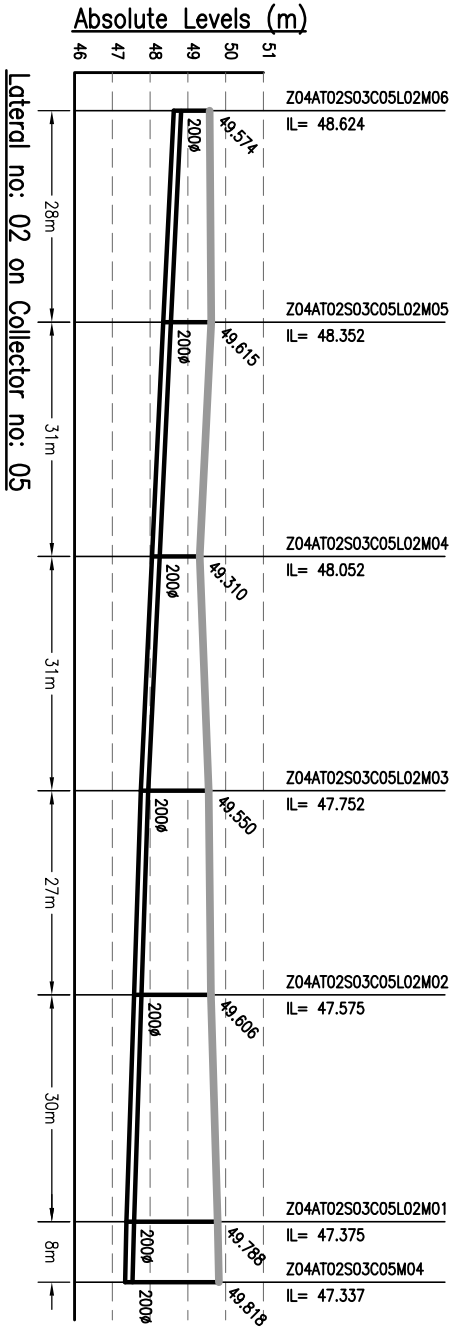
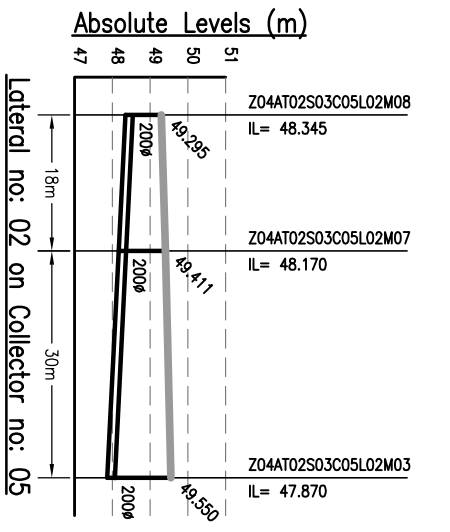
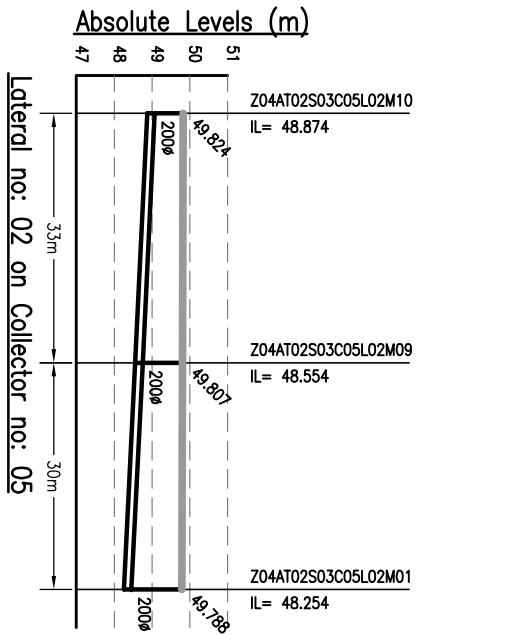
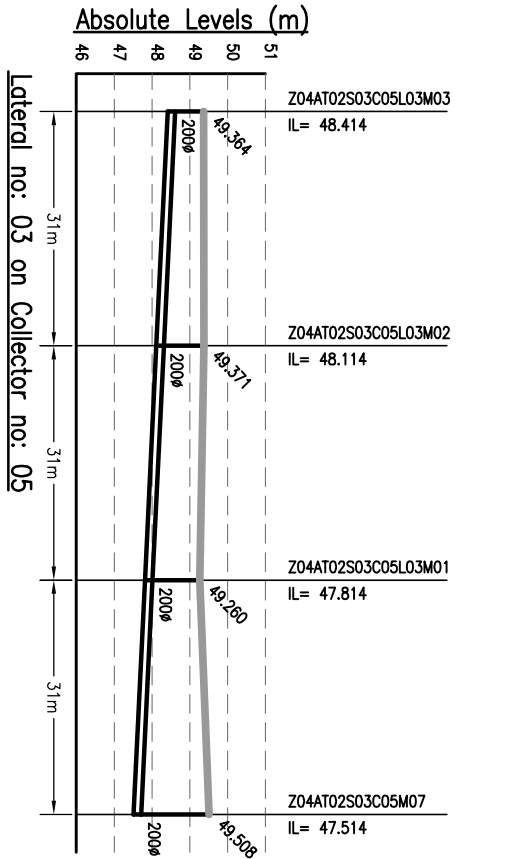
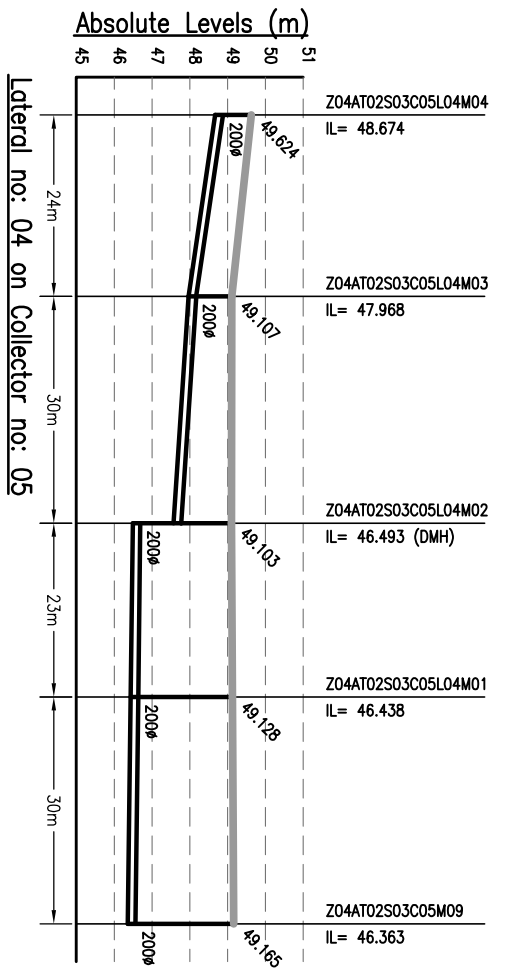
DESIGNED	CHECKED	APPROVED	JOB NO.
JR	RP	CRR	1092.01

DATE OF FIRST ISSUE	SCALE	DATE OF REVISION	REVISION
MAY 2013	H-1000, V-200	MAY 2013	00



DATE PLOTTED AND COUNTERSIGNED THE CONTRACTOR IS SOLELY RESPONSIBLE.

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<p>Drawing Base Reference:- PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.</p>																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>REV</th> <th>DATE</th> <th>NAME</th> <th>DESCRIPTION</th> <th>CHKD</th> </tr> <tr> <td>00</td> <td>MAY'13</td> <td>SKS</td> <td>DRAFT DPR SUBMISSION</td> <td>RP</td> </tr> </table>		REV	DATE	NAME	DESCRIPTION	CHKD	00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP														
REV	DATE	NAME	DESCRIPTION	CHKD																					
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP																					
<p>AMENDMENTS</p>																									
<p>NOTICES:- THIS DRAWING IS PROPERTY OF MEINHARDT (SINGAPORE) PTE. LTD. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE DRAWING PART OR WHOLE IS NOT PERMITTED.</p>																									
<p>CLIENT:-</p>																									
 <p>BIHAR URBAN INFRASTRUCTURE DEVELOPMENT CORPORATION</p>																									
<p>PROJECT:- PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS; TENDERING FOR EXECUTION; CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM</p>																									
<p>CONSULTANT:- MEINHARDT (SINGAPORE) PTE. LTD. A-4, Sector-6, Noida-201301, India Ph.: +91 120 2516165, Fax No.: +91 120 2515745 www.meinhardtgroup.com, Email: chin@meinhardtindia.com</p>																									
<p>DRAWING TITLE SEWERAGE L-SECTION OF LATERAL ZONE-4A, TRUNK-2 (SPS-B) (PART - 2 OF 11)</p>																									
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PURPOSE OF ISSUE	SCALE: - H-1000, V-200																								
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 4. REFER DRAWING NO. T-1 TO 491 & 1092.01-PH-N-01 TO 491 FOR LOCATION OF MANHOLE AND OTHER DETAILS.

Drawing Base Reference:
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SNS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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 Phone: +65 67201011 Fax: +65 67201013
 Website: www.meinhardt.com

BIHAR
 URBAN INFRASTRUCTURE
 DEVELOPMENT CORPORATION

**PREPARATION OF DETAILED
 PROJECT REPORTS (DPRS) & BID
 DOCUMENTS:
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION &
 QUALITY CONTROL OF SEWERAGE &
 DRAINAGE PROJECTS OF PATNA
 UNDER JNNURM**

CONSULTANT:-

MEINHARDT
 (SINGAPORE) PTE. LTD.
 A-8, Sector-6, Noida-201301, India
 P.O.: +91 120 2516165, Fax No.: +91 120 2515745
 www.meinhardtdirect.com, Email: info@meinhardtdirect.com

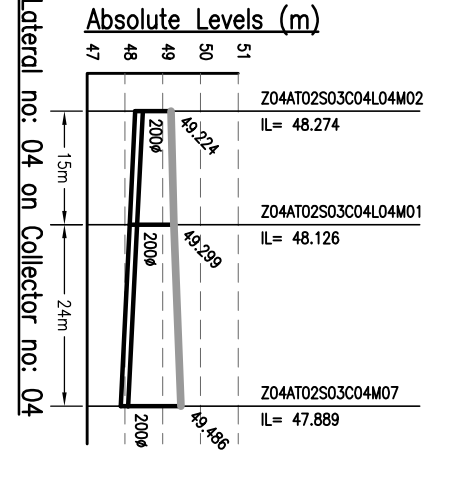
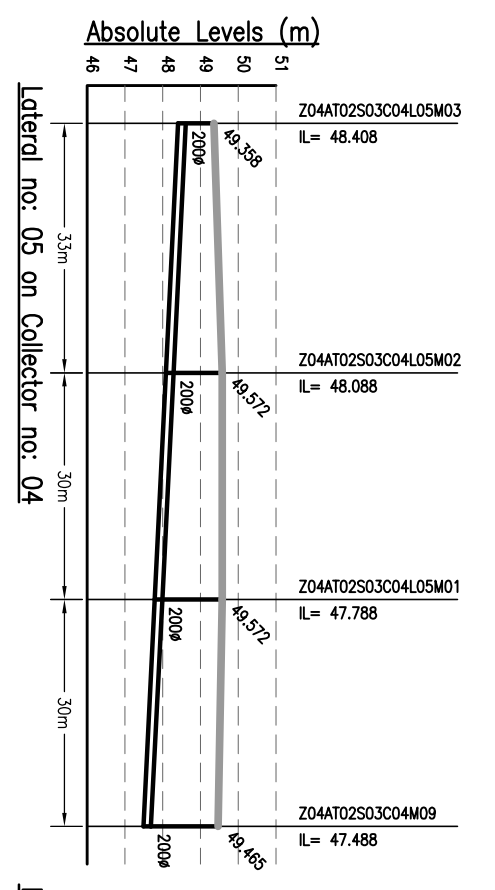
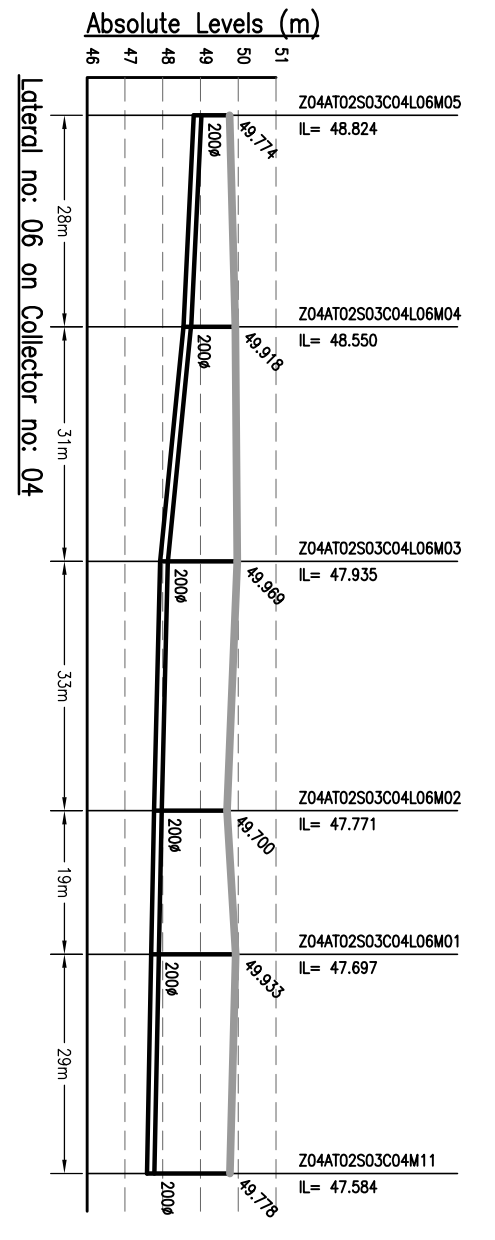
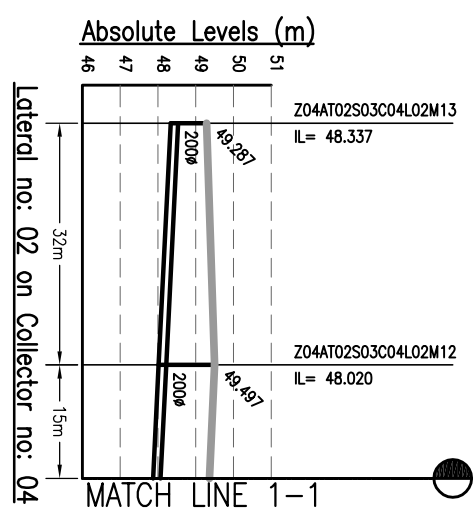
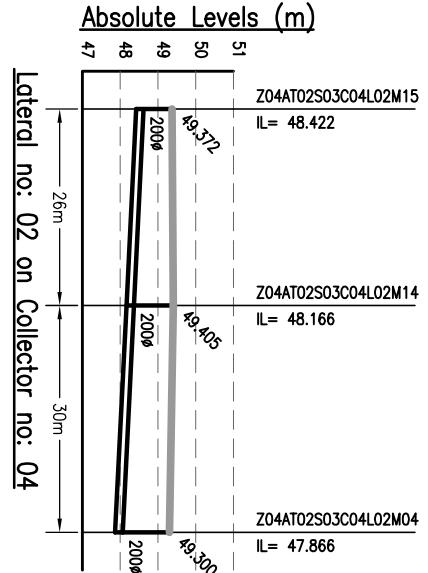
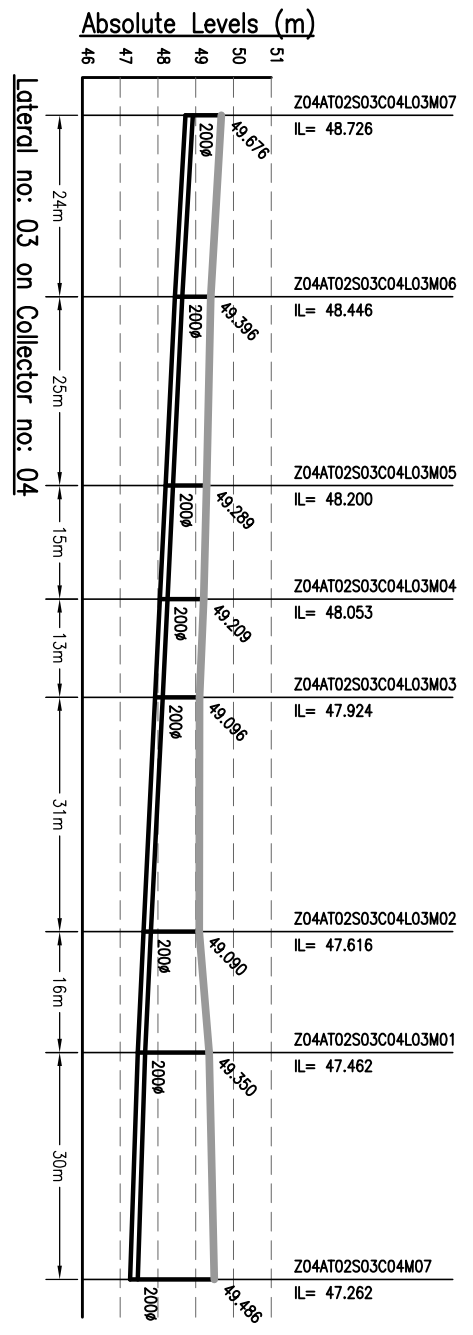
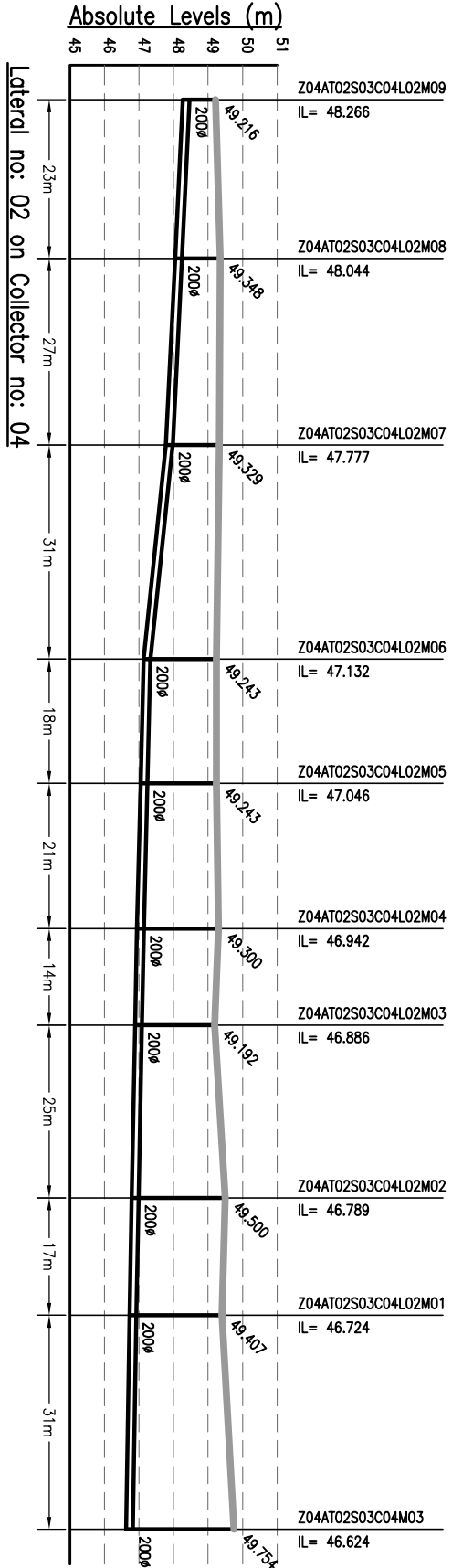
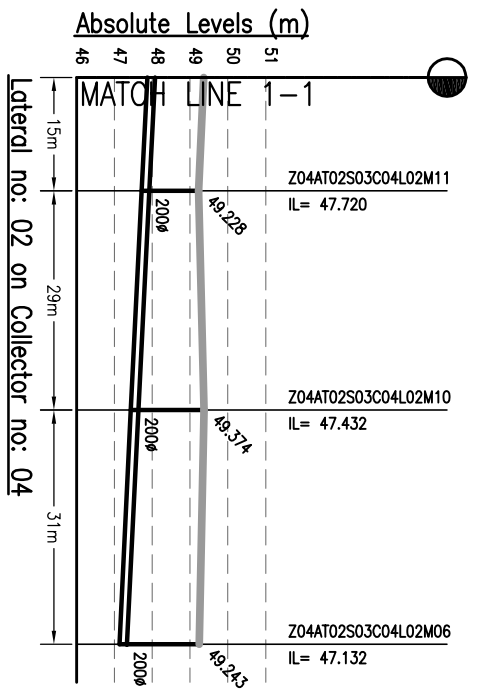
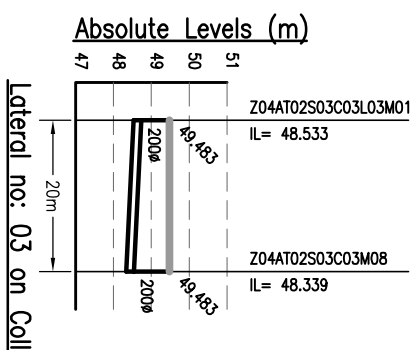
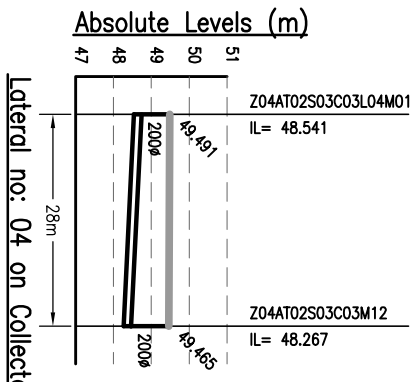
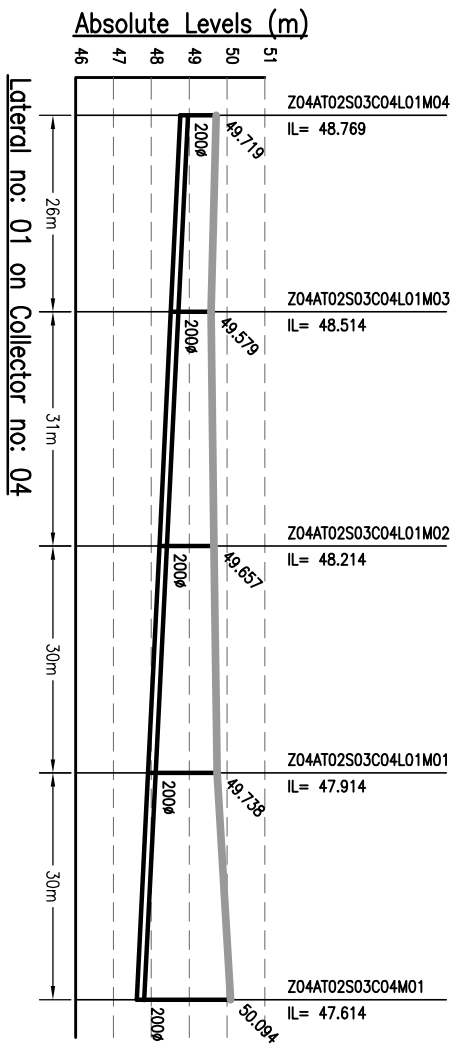
DRAWING TITLE
 SEWERAGE
 L-SECTION OF LATERAL
 ZONE-4A, TRUNK-2 (SPS-B)

PURPOSE OF ISSUE
 DRAFT DETAILED PROJECT REPORT

SCALE : H-1000, V-200
SHEET SIZE : A3

DATE OF FIRST ISSUE	BY
MAY 2013	SNS

DISCIPLINE	DATE	REVISION
DR	MAY 2013	
CR	MAY 2013	
DISCIPLINE	DATE	REVISION
PH	Z4A-12-L-03	00



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Drawing Base Reference:
 PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SNS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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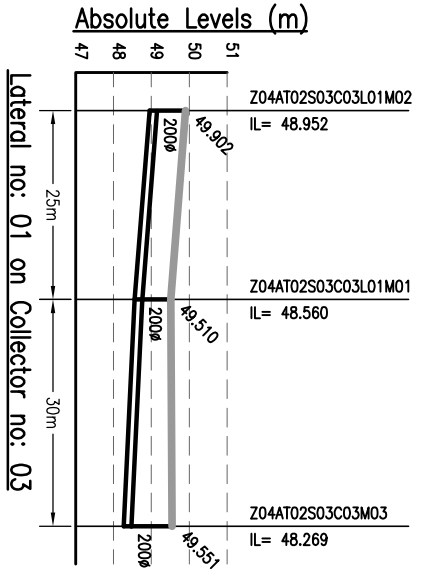
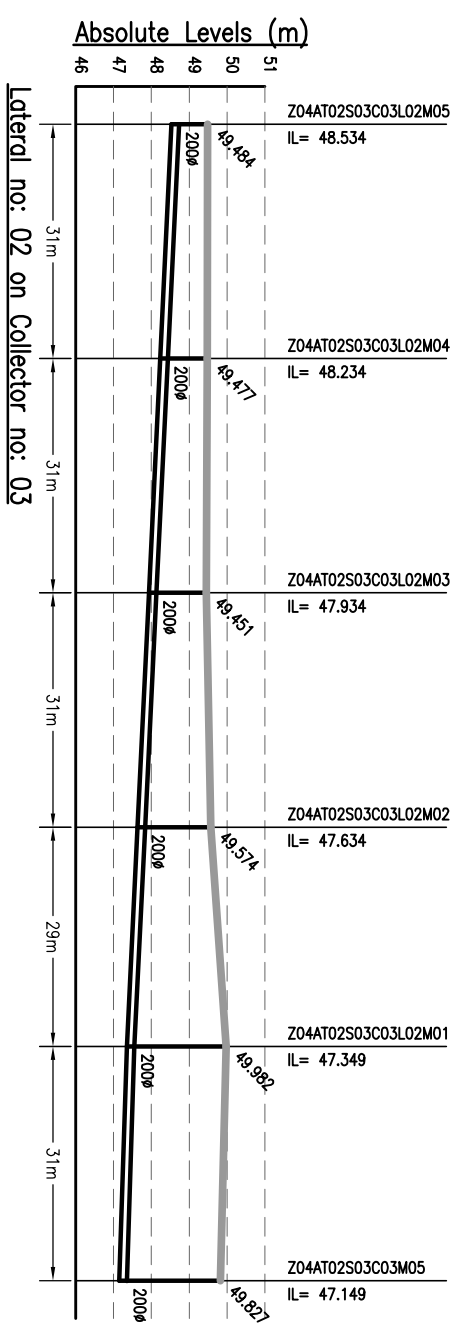
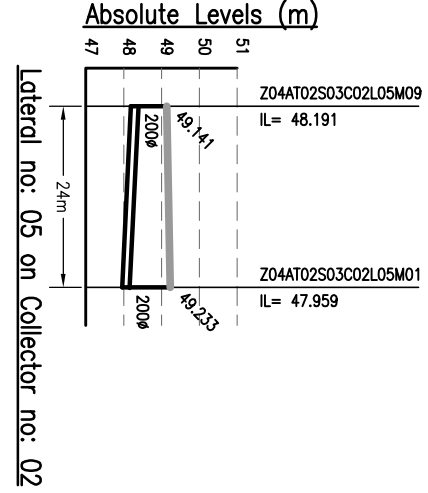
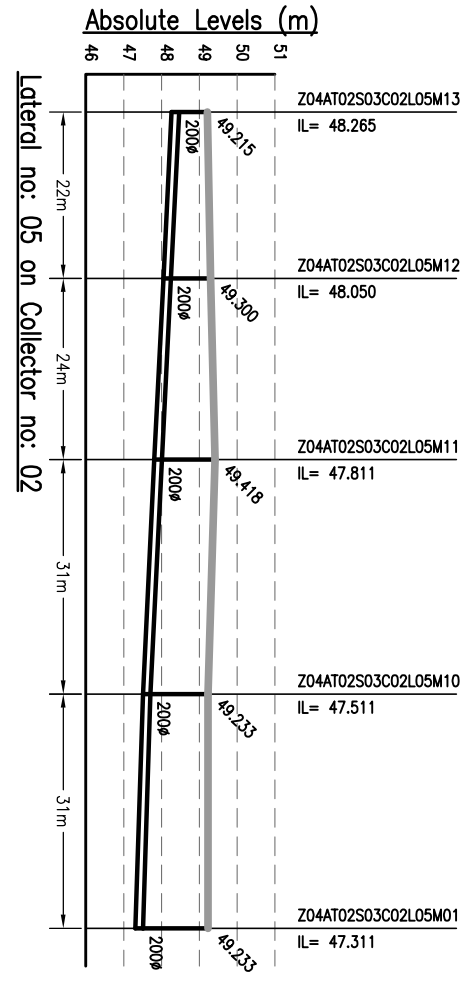
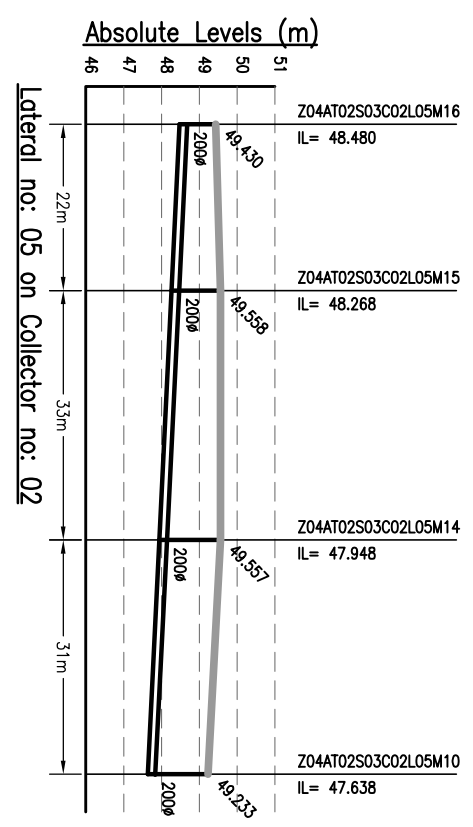
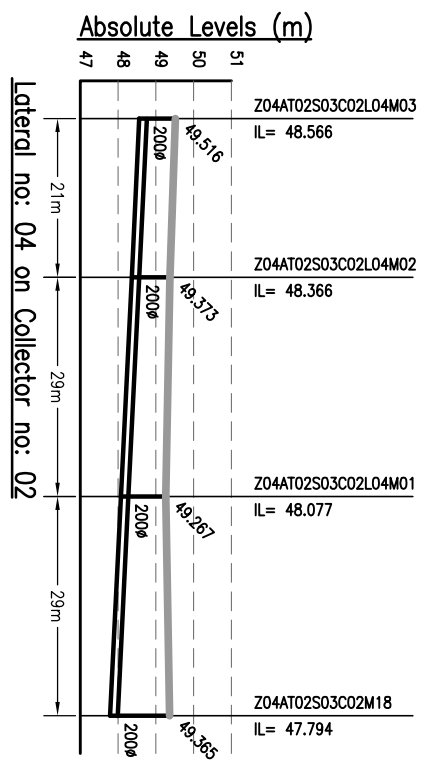
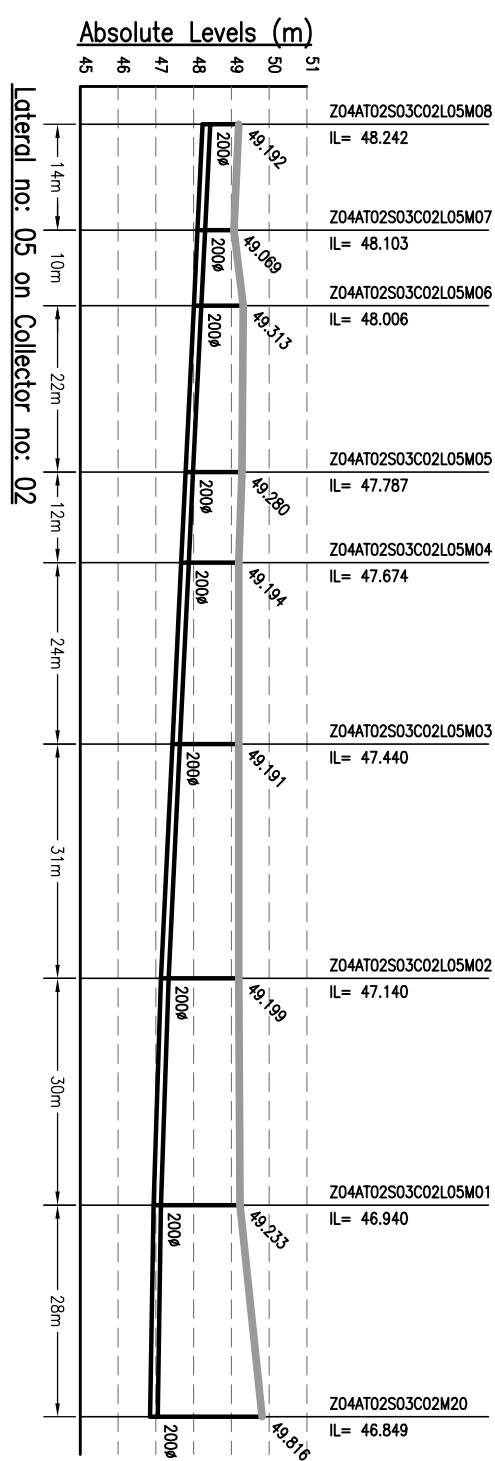
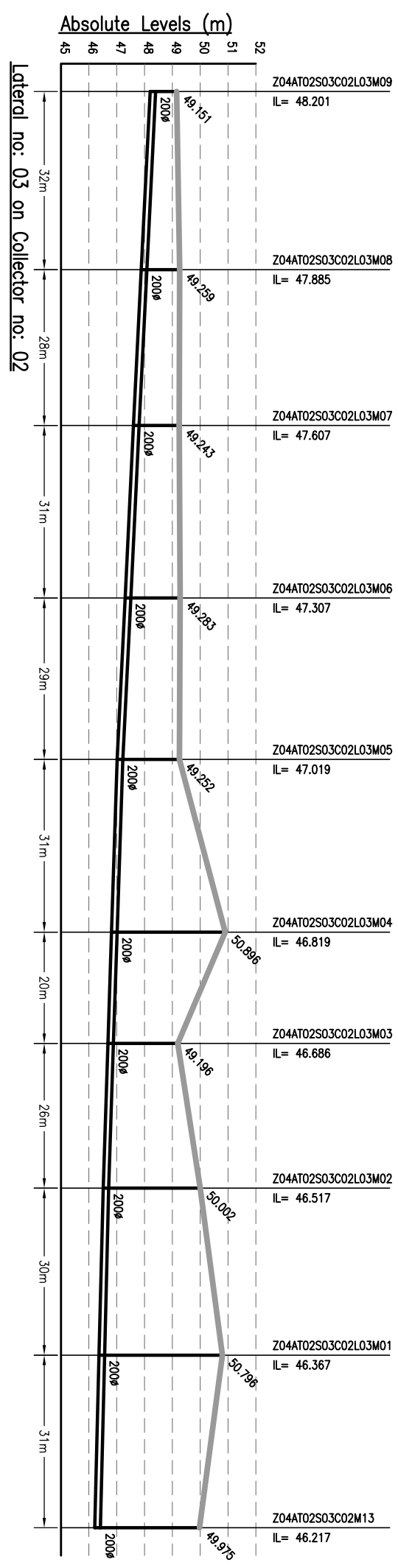
303, Maliga Tower,
 Plot No. 16, Sector 10, Ganga Nagar,
 Patna - 800 001, Bihar, India
 Website: www.bihuridc.com

PROJECT:-
 PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

CONSULTANT:-
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DRAWING TITLE
 SEWERAGE
 L-SECTION OF LATERAL
 ZONE-4A, TRUNK-2 (SPS-B)

DESIGNED	BY	SCALE	PURPOSE OF ISSUE
JR	SNS	H-1000, V-200	DRAFT DETAIL PROJECT REPORT (PART - 4 OF 11)
APPROVED <th>DATE OF FIRST ISSUE</th> <th>SHEET SIZE</th> <th>REVISION</th>	DATE OF FIRST ISSUE	SHEET SIZE	REVISION
CR	MAY 2013	A3	
DISCIPLINE	NO.	DATE	DESCRIPTION
PH	Z4A-12-L-04	MAY 2013	
			00



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 4. REFER DRAWING NO. T-1 TO 491 & 1092.01-PH-N-01 TO 491 FOR LOCATION OF MANHOLE AND OTHER DETAILS.

Drawing Base Reference:
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SNS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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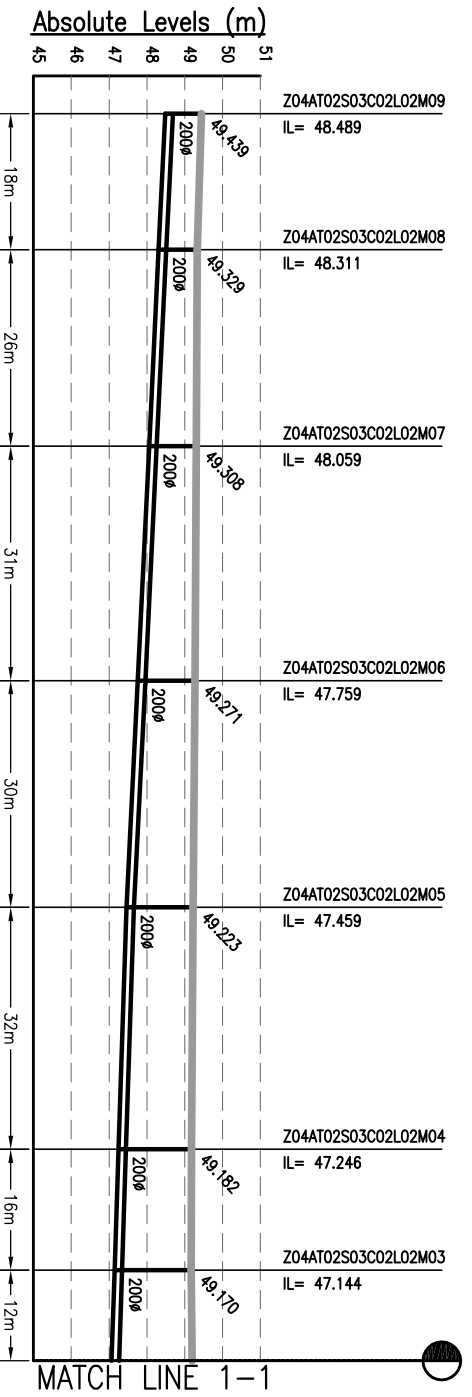
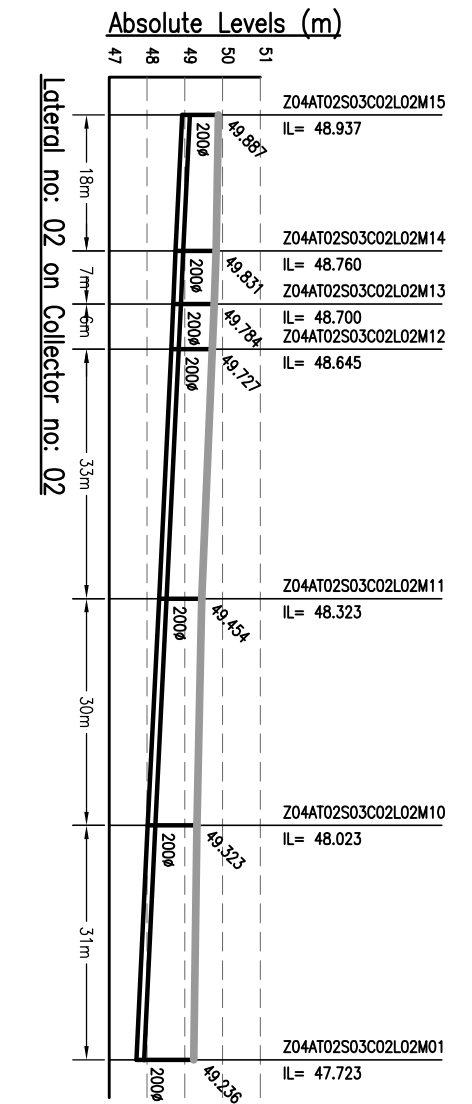
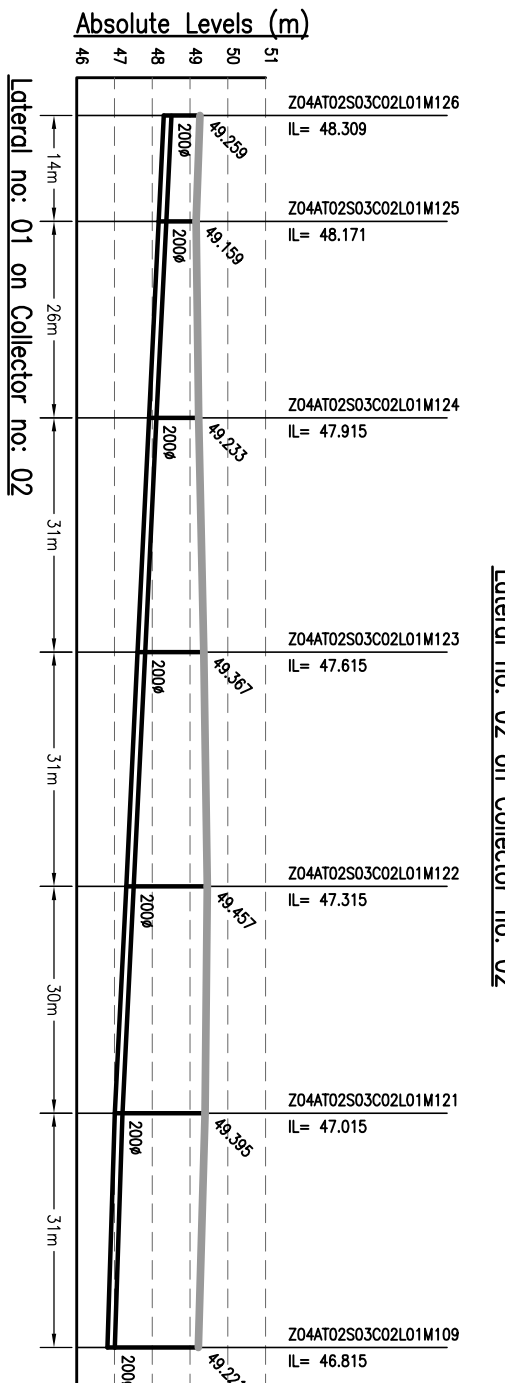
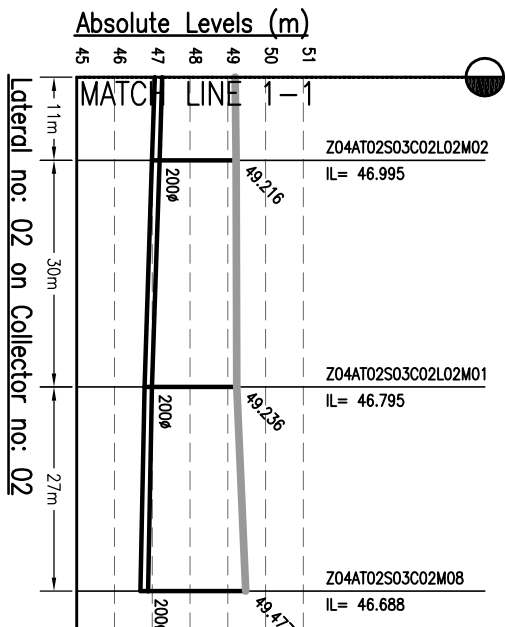
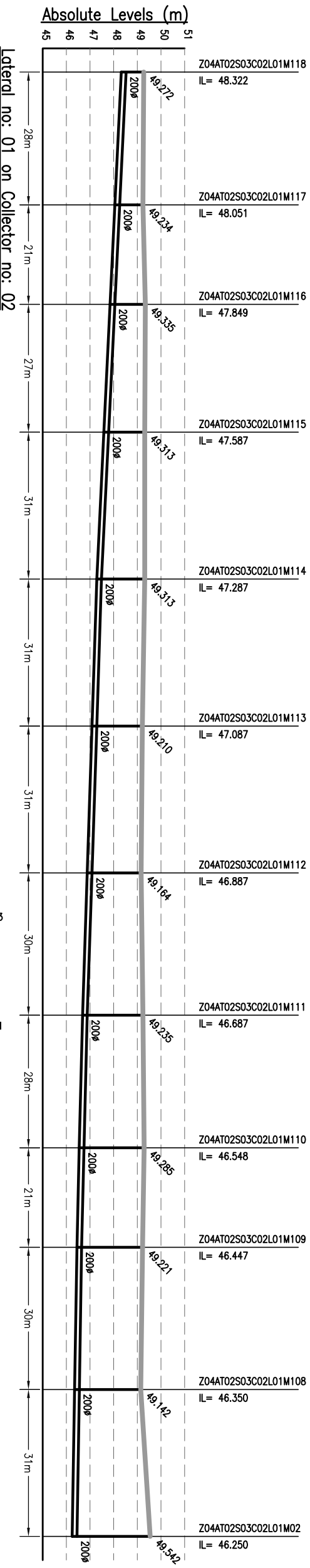
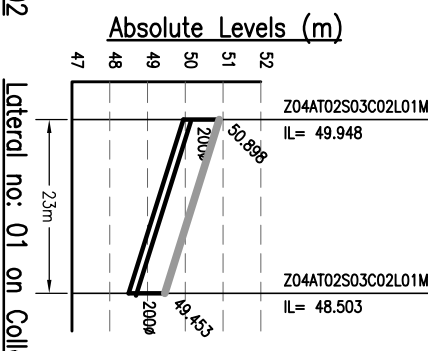
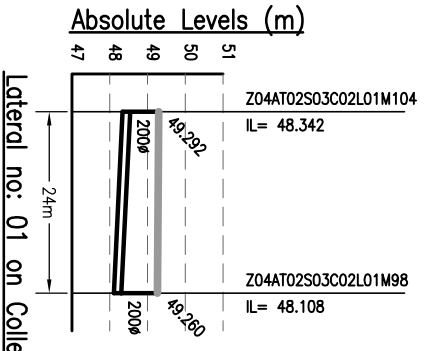
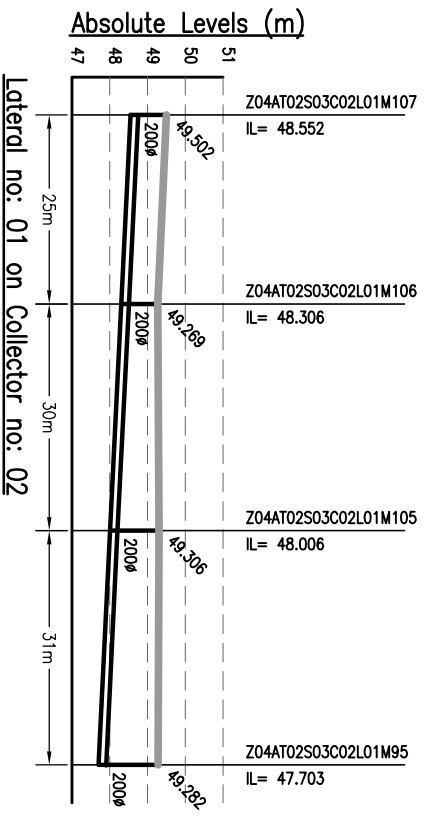
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 URBAN INFRASTRUCTURE DEVELOPMENT CORPORATION
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PROJECT:-
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 TENDERING FOR EXECUTION;
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DRAWING TITLE
SEWERAGE
L-SECTION OF LATERAL
ZONE-4A, TRUNK-2 (SPS-B)
 (PART - 5 OF 11)

PURPOSE OF ISSUE	SCALE: H-1000, V-200
DRAFT DETAIL PROJECT REPORT	SHEET SIZE: A3
BY	DATE OF FIRST ISSUE
DESIGNED	MAY 2013
CHECKED	RP
APPROVED	MAY 2013
DISCIPLINE	DRY
JOB NO.	1092.01
PHASE	PH1
REVISION	Z4A-12-L-05
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4. REFER DRAWING NO. T-1 TO 491 & T-2 TO 491 FOR LOCATION OF MANHOLE AND OTHER DETAILS.

Drawing Base Reference:
PWC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SNS	DRAFT DPR SUBMISSION	RP

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URBAN INFRASTRUCTURE DEVELOPMENT CORPORATION
BIHAR

PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS:
TENDERING FOR EXECUTION: CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

CONSULTANT:-

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DRAWING TITLE
SEWERAGE
L-SECTION OF LATERAL
ZONE-4A, TRUNK-2 (SPS-B)
(PART - 6 OF 11)

PURPOSE OF ISSUE
DRAFT DETAILED PROJECT REPORT

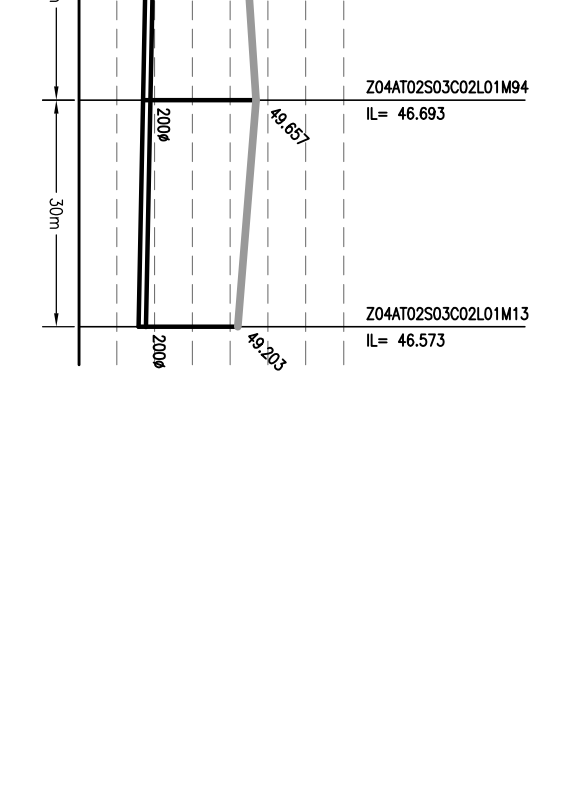
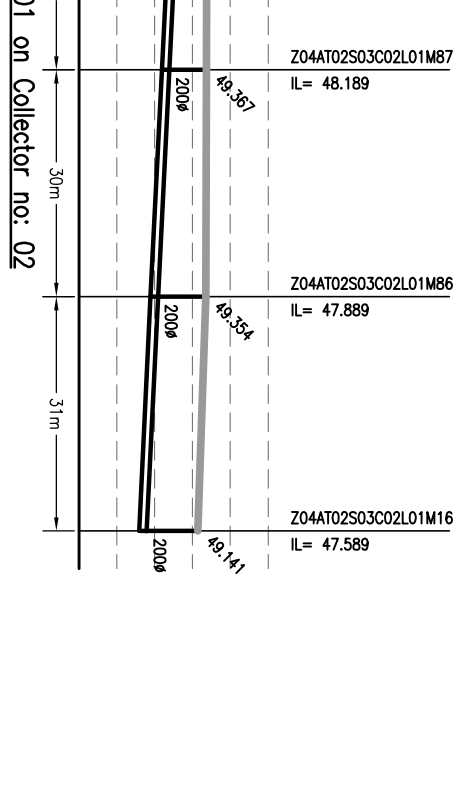
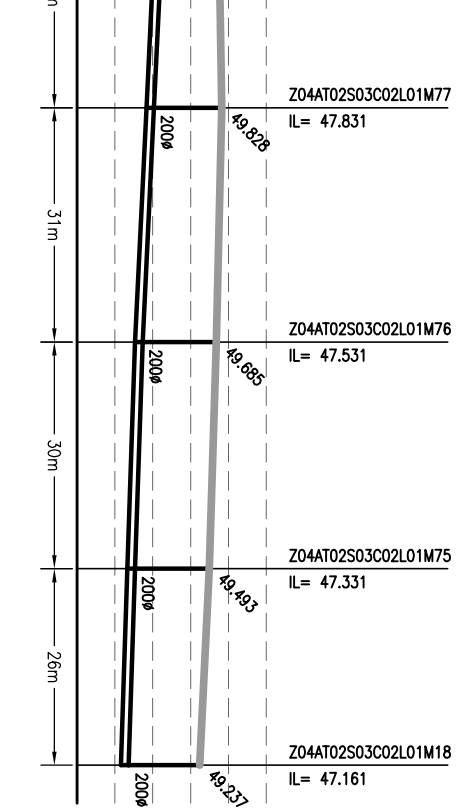
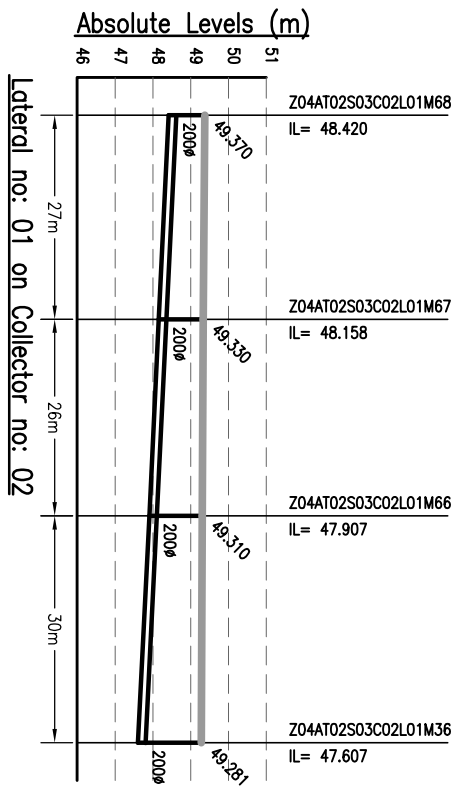
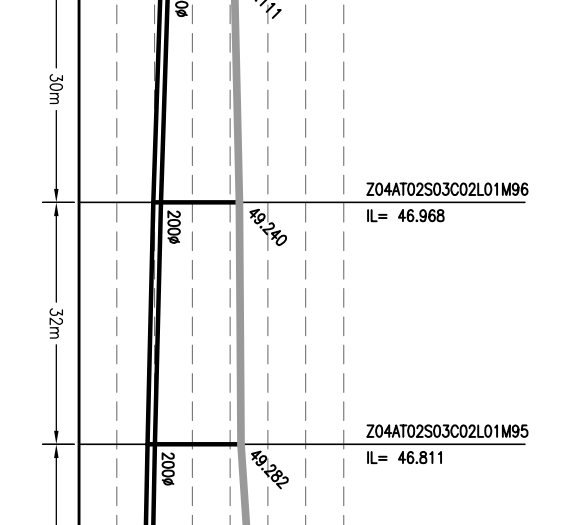
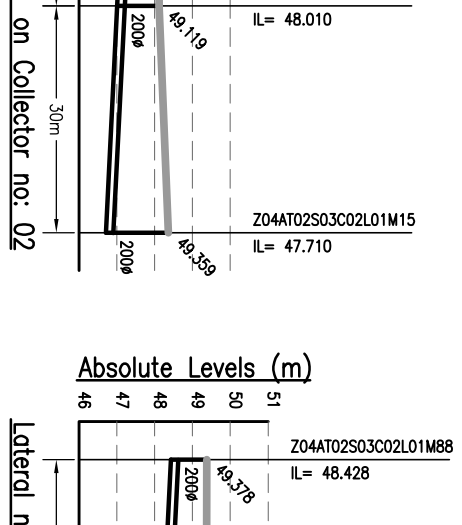
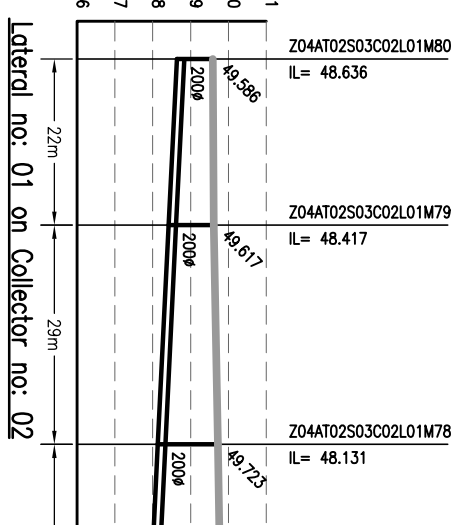
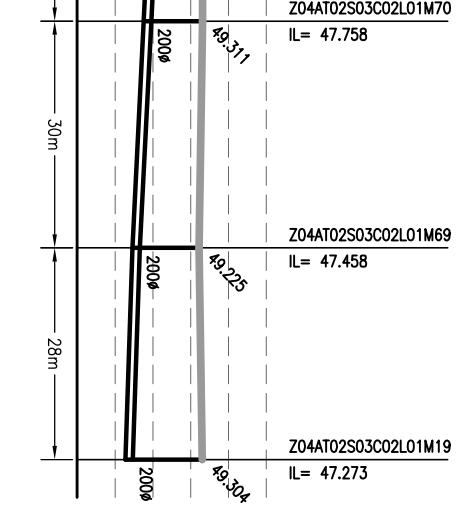
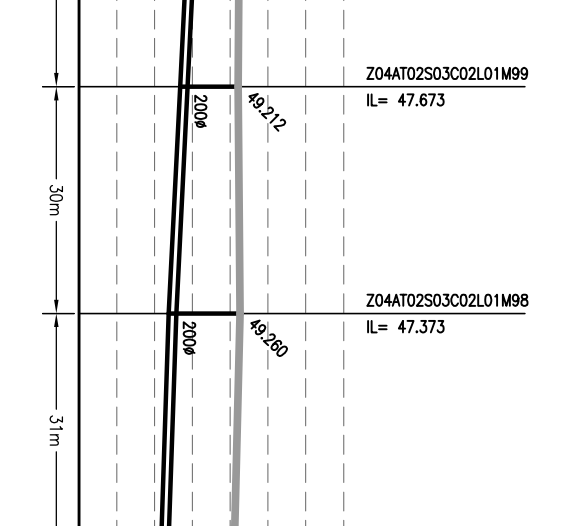
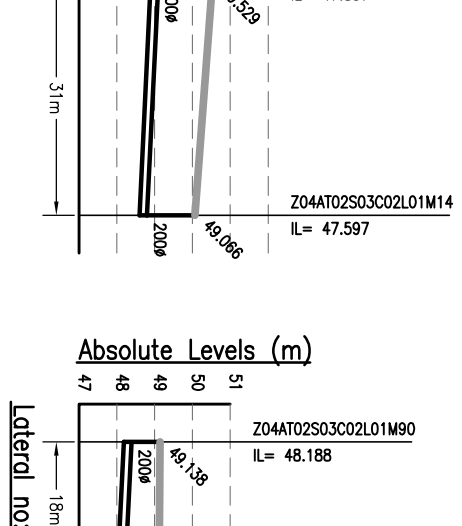
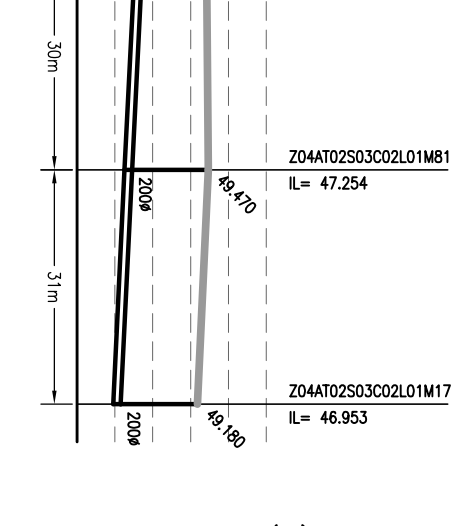
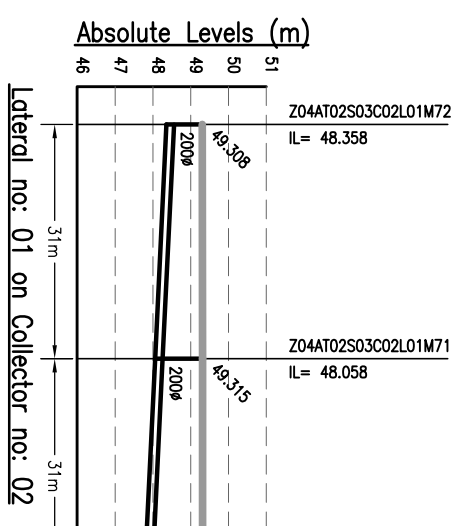
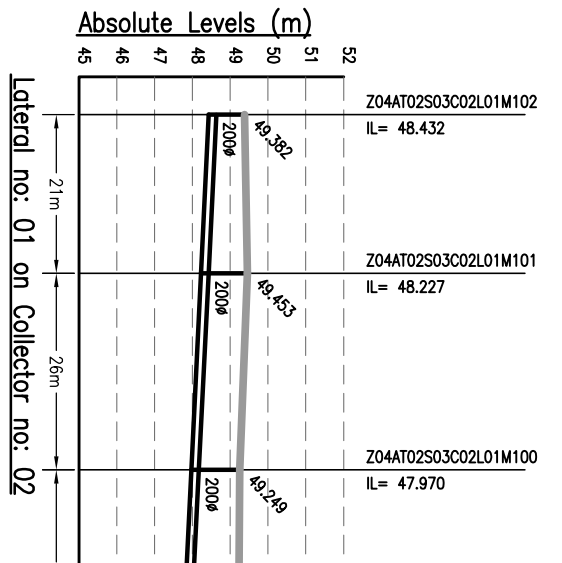
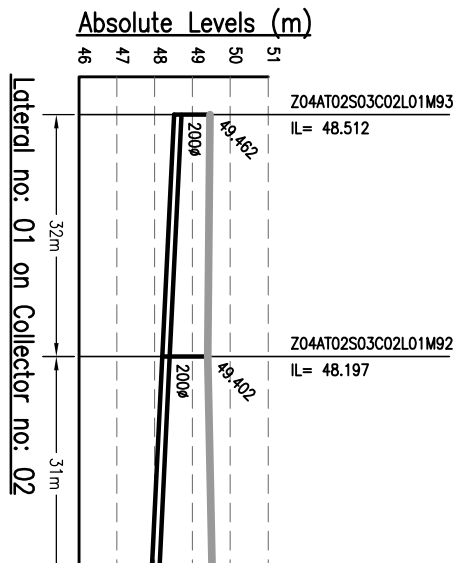
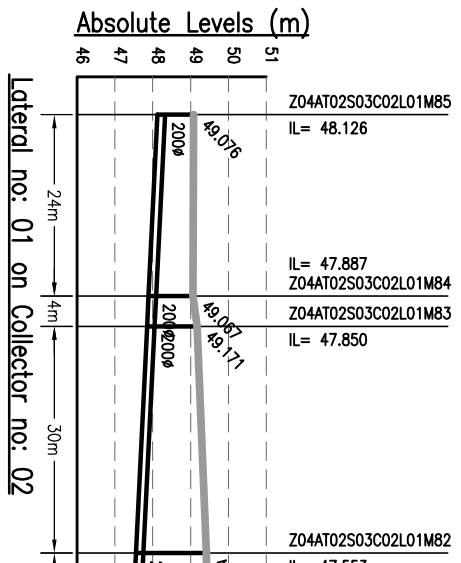
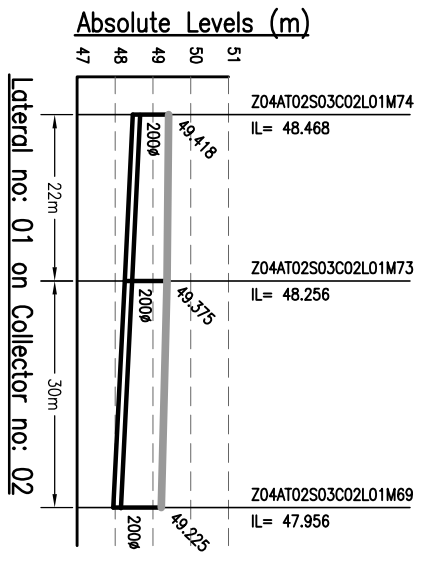
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SHEET SIZE: A3

DATE OF FIRST ISSUE
MAY 2013

DISCIPLINE	DATE	REVISION
PHI	Z4A-12-L-06	00

JOB NO. 1092.01



DATE PLOTTED AND CHECKED BY THE ENGINEER IN CHARGE

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 4. REFER DRAWING NO. TO 491 & 1092.01-PH-N-01 TO 491 FOR LOCATION OF MANHOLE AND OTHER DETAILS.

Drawing Base Reference:
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SNS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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URBAN INFRASTRUCTURE DEVELOPMENT CORPORATION
 BIHAR

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 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION &
 QUALITY CONTROL OF SEWERAGE &
 DRAINAGE PROJECTS OF PATNA UNDER JNNURM**

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DRAWING TITLE
 L-SECTION OF LATERAL ZONE-4A, TRUNK-2 (SPS-B)

PURPOSE OF ISSUE
 DRAFT DETAIL PROJECT REPORT

SCALE: H-1000, V-200

SHEET SIZE: A3

DATE OF FIRST ISSUE
 MAY 2013

DATE OF THIS ISSUE
 MAY 2013

BY: SKS

CHECKED: JR

APPROVED: RP

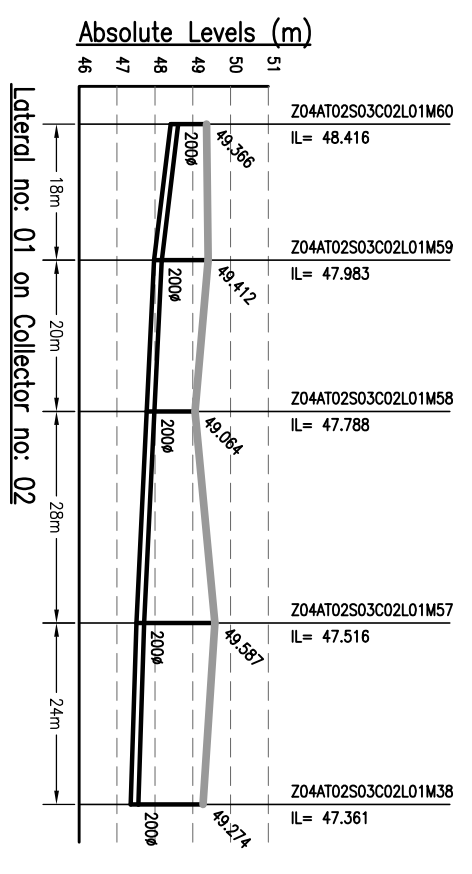
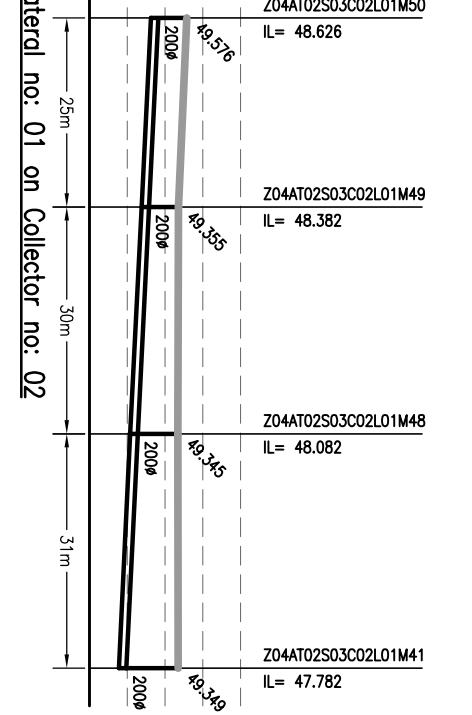
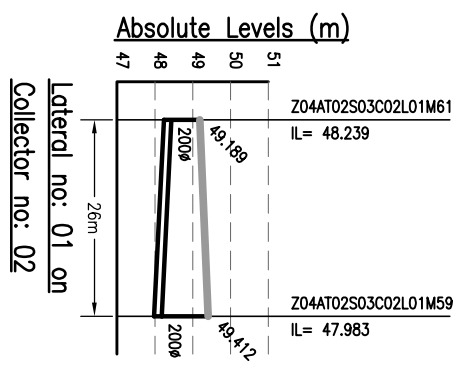
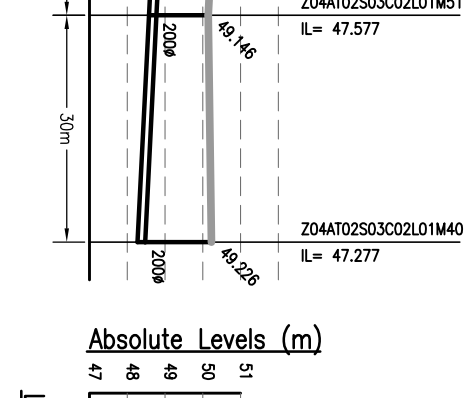
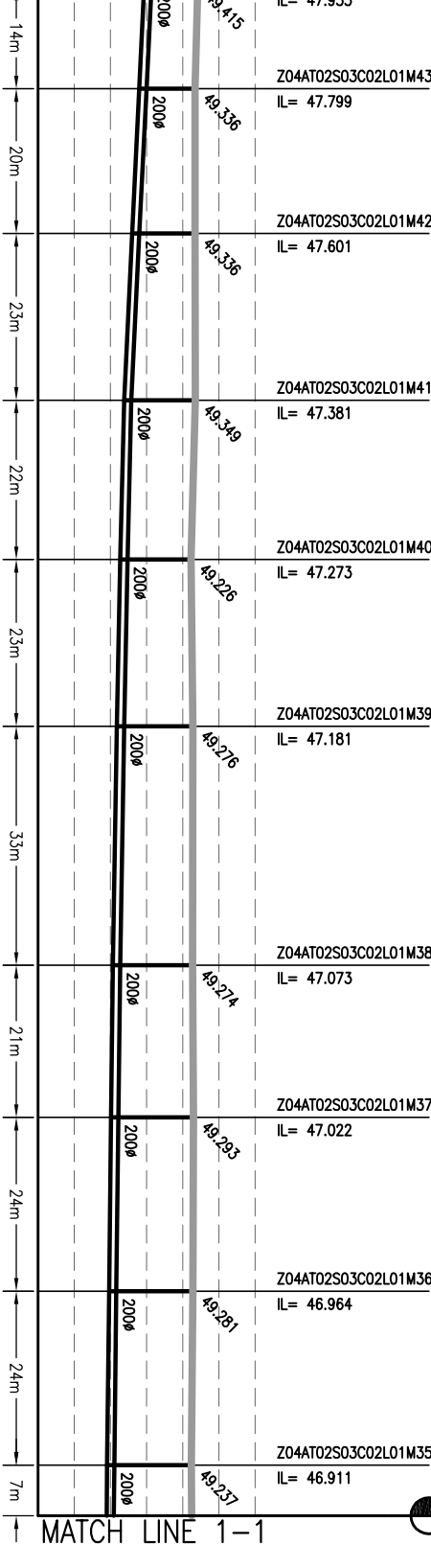
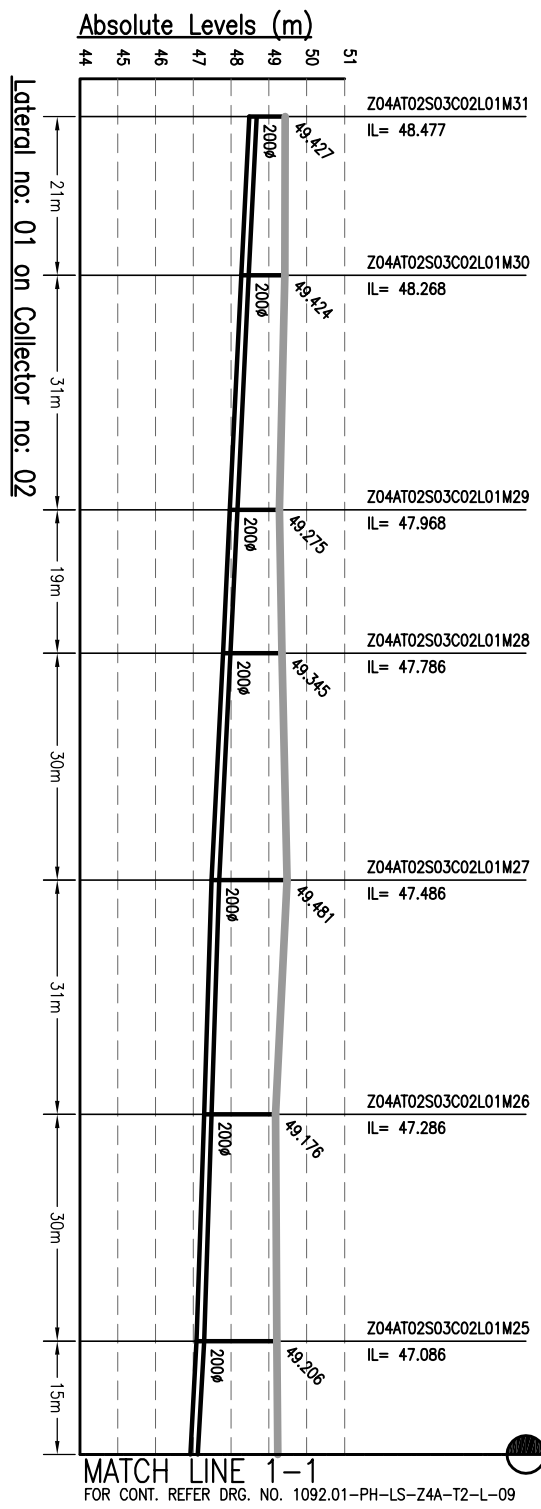
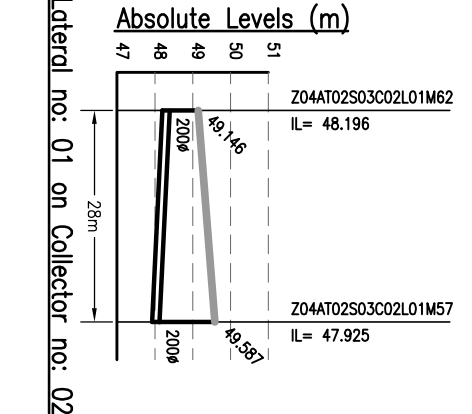
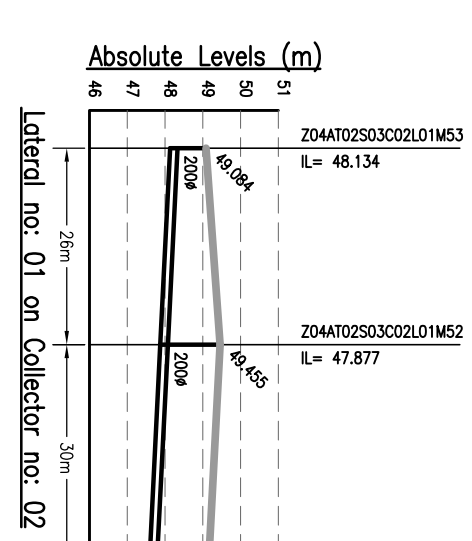
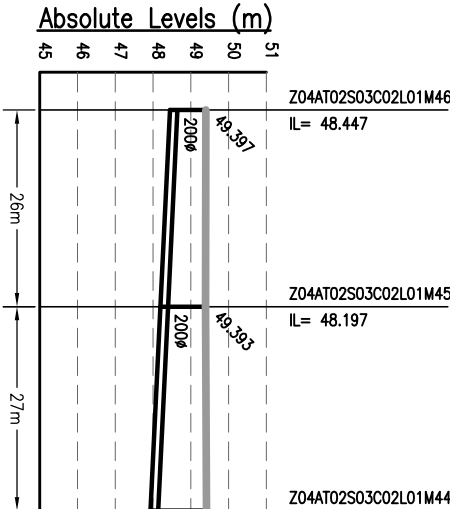
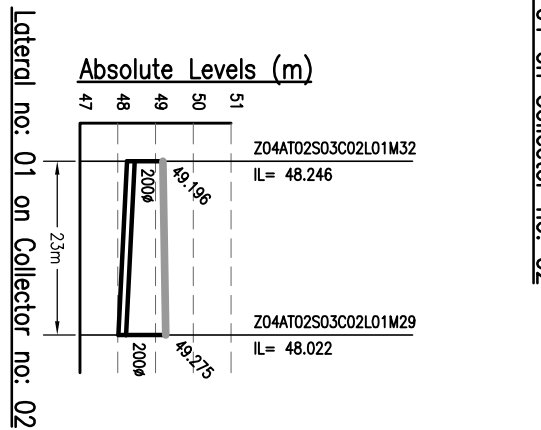
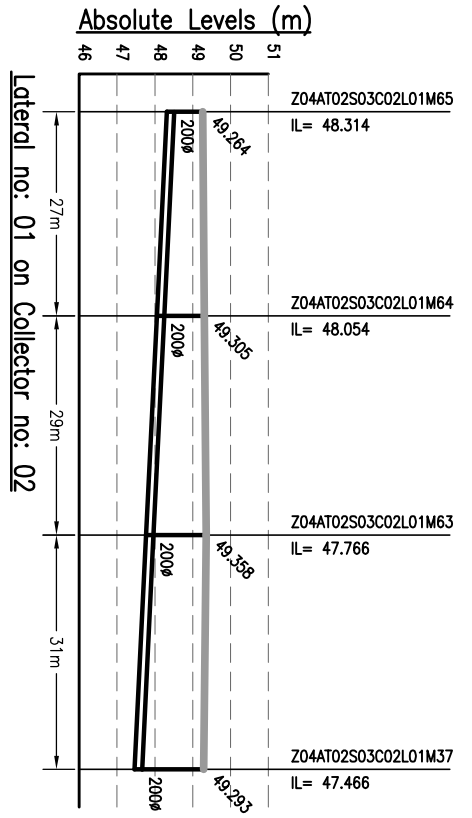
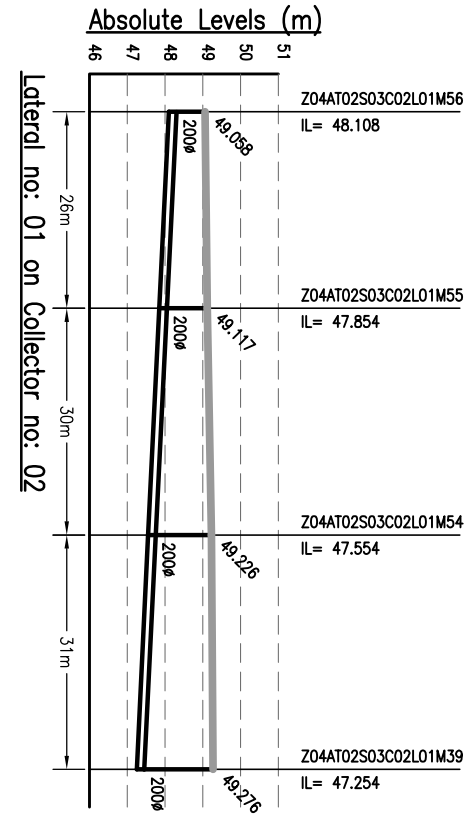
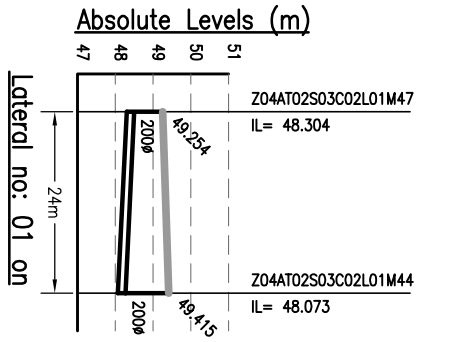
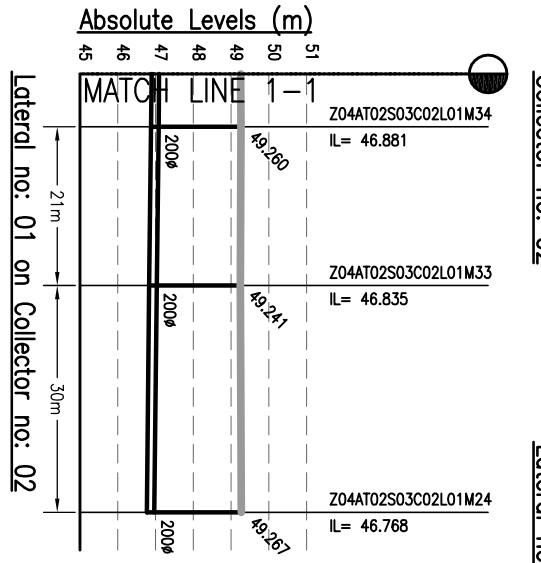
DISCIPLINE: CRR

JOB NO.: 1092.01

PHASE: PH1

DRAWING NO.: Z4A-12-L-07

REVISION: 00



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Drawing Base Reference:
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SNS	DRAFT DPR SUBMISSION	RP

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PROJECT:-
 PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS;
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DRAWING TITLE
 SEWERAGE
 L-SECTION OF LATERAL
 ZONE-4A, TRUNK-2 (SPS-B)
 (PART - 8 OF 11)

PURPOSE OF ISSUE
 DRAFT REVIEW PROJECT REPORT

SCALE:- H-1000, V-200

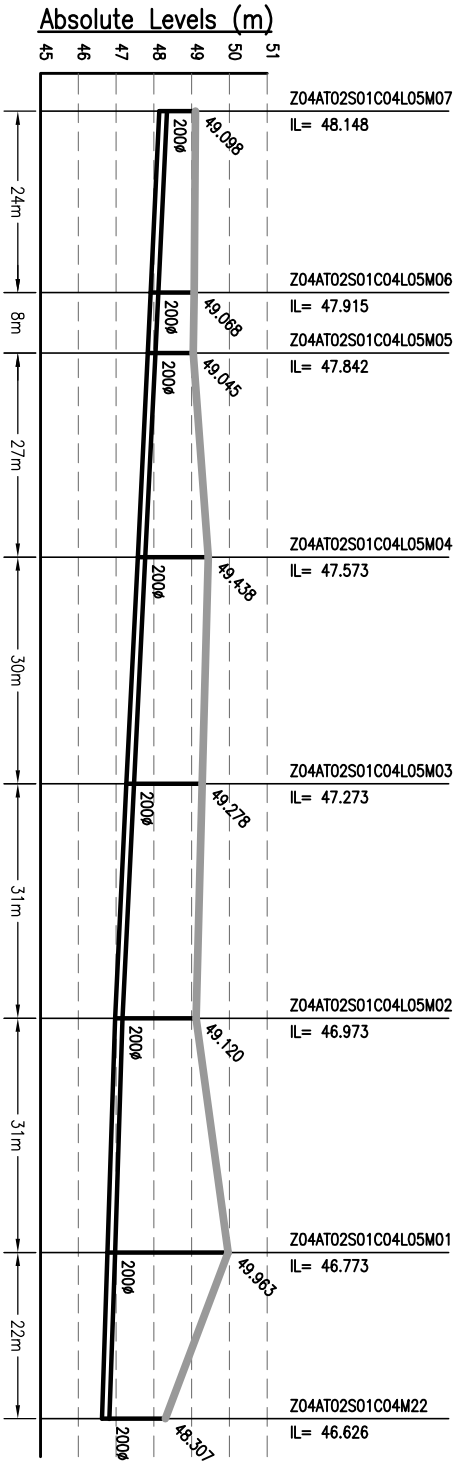
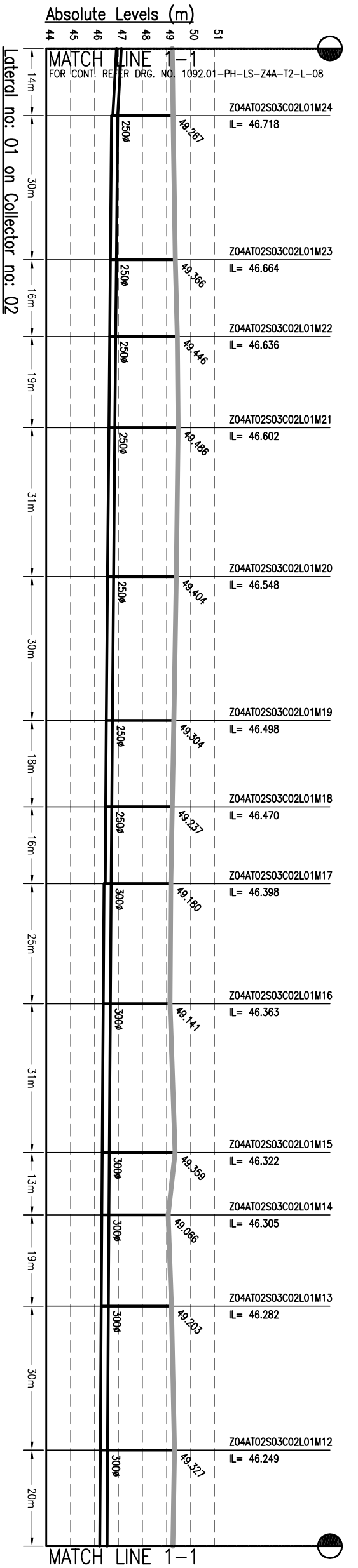
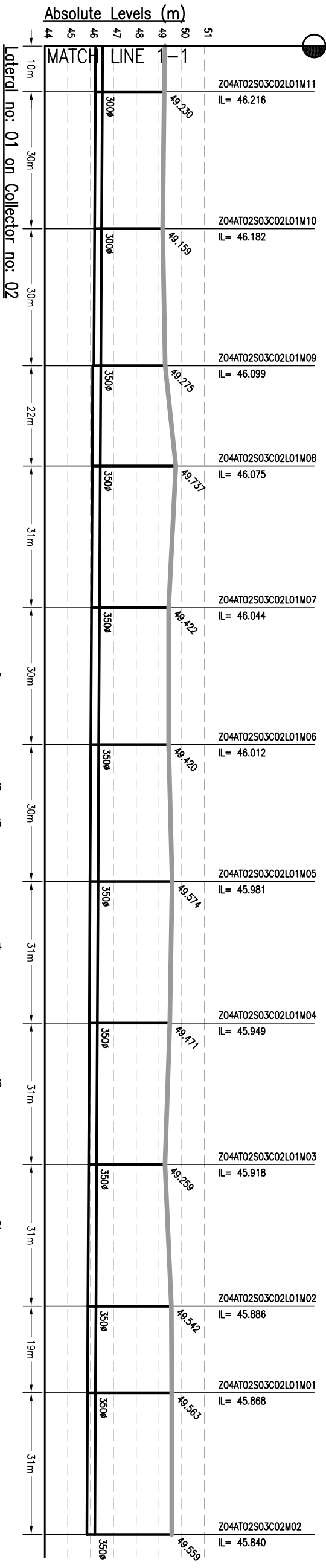
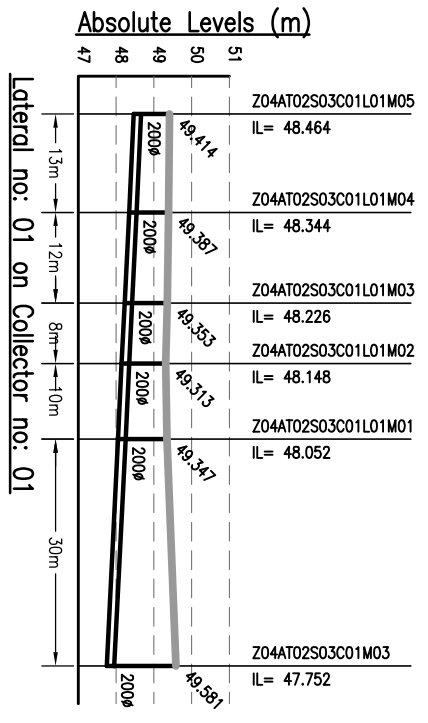
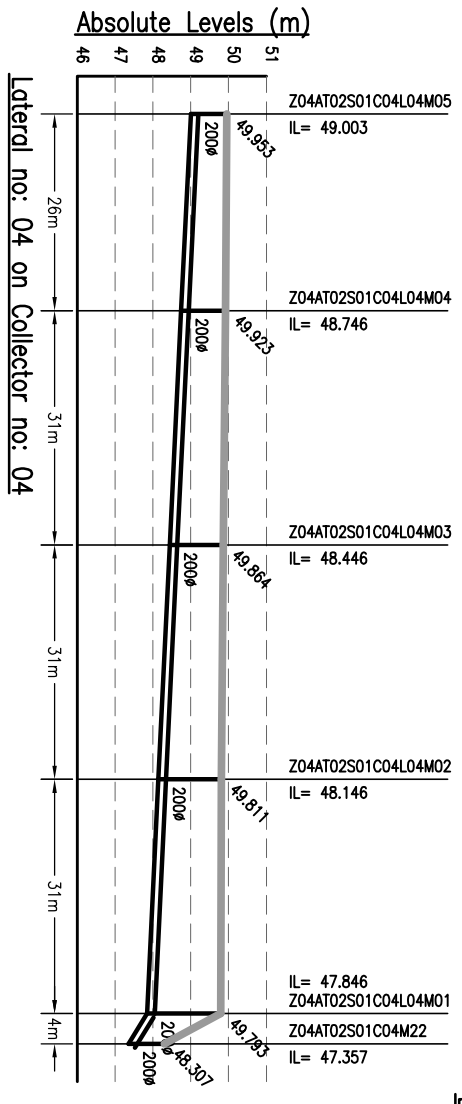
DRAWN BY: SRS DATE OF FIRST ISSUE: MAY 2013

DESIGNED BY: JR DATE OF FIRST ISSUE: MAY 2013

CHECKED BY: RP DATE OF FIRST ISSUE: MAY 2013

APPROVED BY: CRP DATE OF FIRST ISSUE: MAY 2013

JOB NO. 1092.01 **DISCIPLINE** PH **DRAWING NO.** Z4A-T2-L-08 **REVISION** 00



DATE PLOTTED AND PRINTED: 15/12/2009 10:52:00 AM

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Drawing Base Reference:
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REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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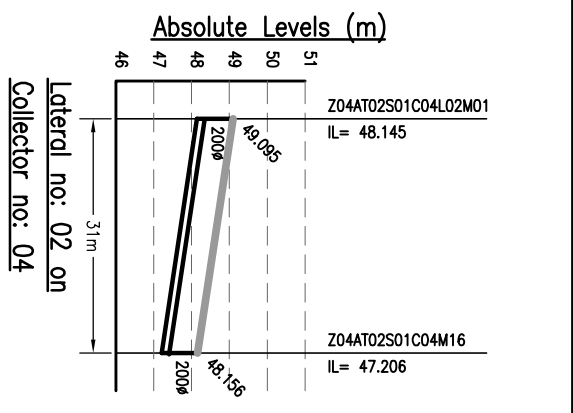
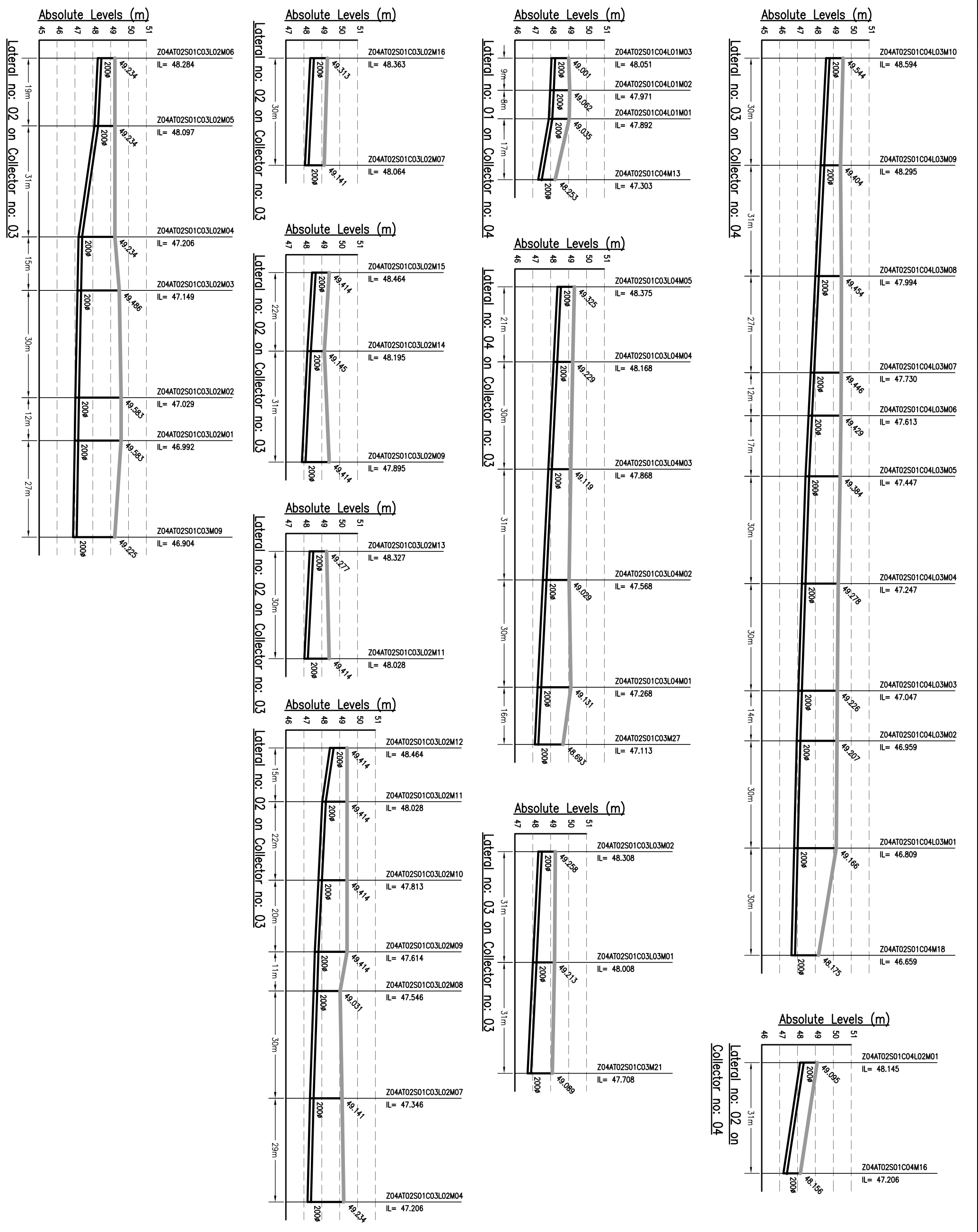
DRAWING TITLE
SEWERAGE
L-SECTION OF LATERAL
ZONE-4A, TRUNK-2 (SPS-B)
(PART - 9 OF 11)

PURPOSE OF ISSUE
DRAFT DETAILED PROJECT REPORT

BY	DATE OF FIRST ISSUE
SKS	MAY 2013
JR	MAY 2013
RP	MAY 2013
CR	MAY 2013

SCALE: H-1000, V-200
SHEET SIZE: A3

JOB NO.: 1092.01
DISCIPLINE: PH
DRAWING NO.: Z4A-12-L-09
REVISION: 00



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4. REFER DRAWING NO. T-1 TO 491 & 1092.01-PH-N-01 TO 491 FOR LOCATION OF MANHOLE AND OTHER DETAILS.

Drawing Base Reference:-
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SNS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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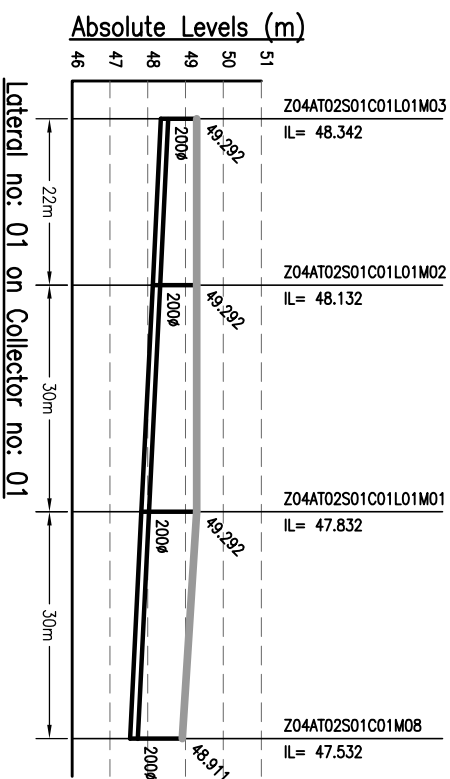
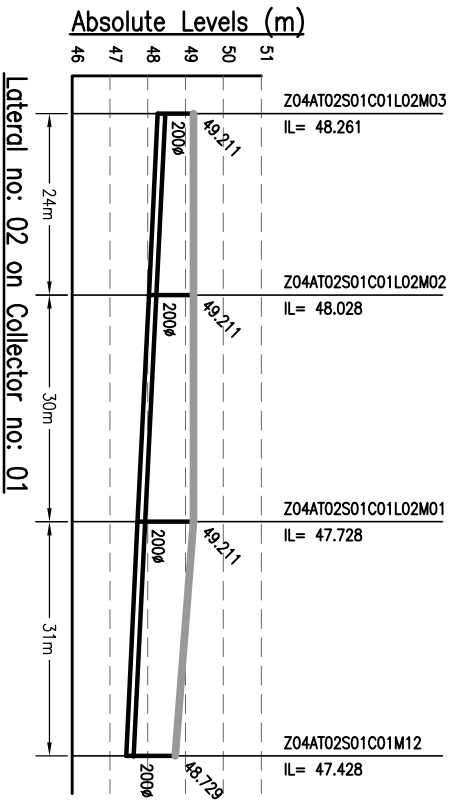
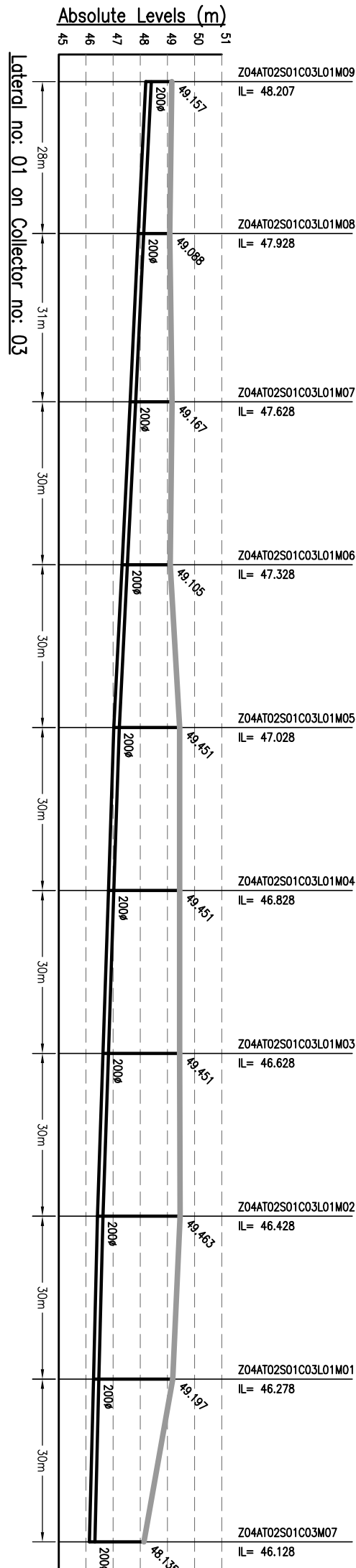
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 Phone: +65 67201010 Fax: +65 67201013
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PROJECT:-
 PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS;
 TENDERING FOR EXECUTION;
 QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

CONSULTANT:-
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DRAWING TITLE
 SEWERAGE
 L-SECTION OF LATERAL
 ZONE-4A, TRUNK-2 (SPS-B)
 (PART - 10 OF 11)

PURPOSE OF ISSUE	SCALE: H-1000, V-200
DRAFT DETAIL PROJECT REPORT	SHEET SIZE: A3
BY	DATE OF FIRST ISSUE
DESIGNED	MAY 2013
CHECKED	MAY 2013
APPROVED	MAY 2013
JOB NO.	DISCIPLINE
1092.01	PHI
	Z4A-12-L-10
	REVISION
	00



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 4. REFER DRAWING NO. TO 491 & 1092.01-PH-N-01 TO 491 FOR LOCATION OF MANHOLE AND OTHER DETAILS.

Drawing Base Reference:
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV	DATE	NAME	DESCRIPTION	CHKD
00	MAY'13	SKS	DRAFT DPR SUBMISSION	RP

AMENDMENTS

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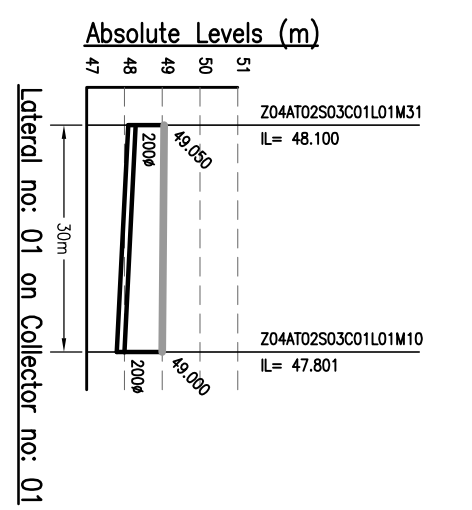
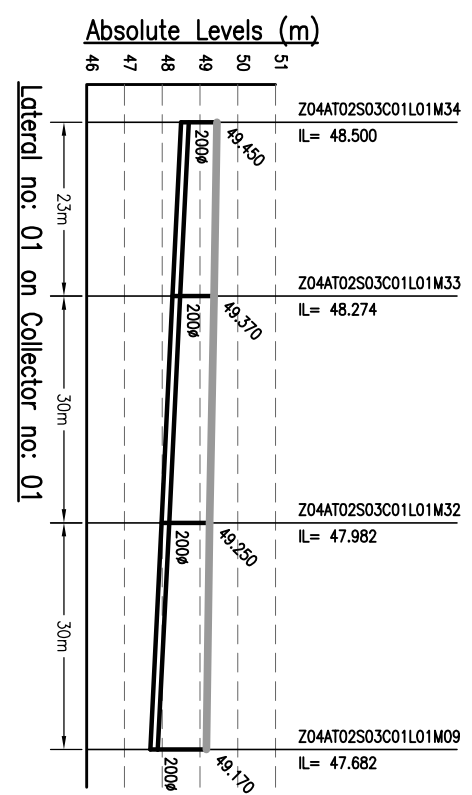
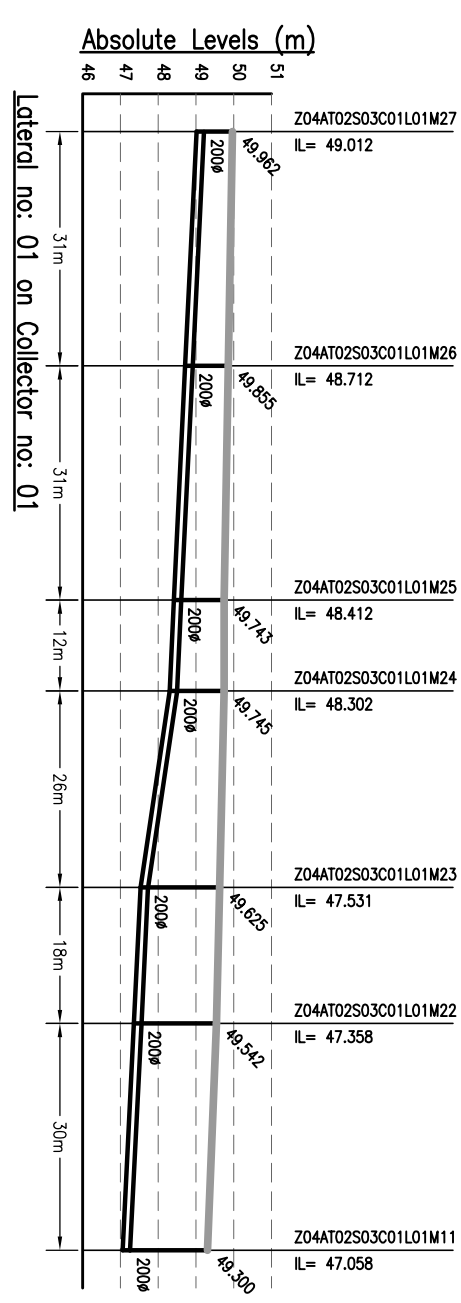
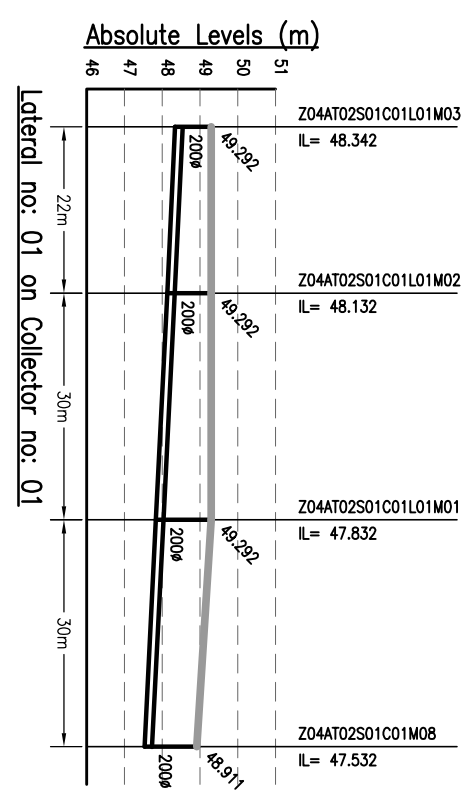
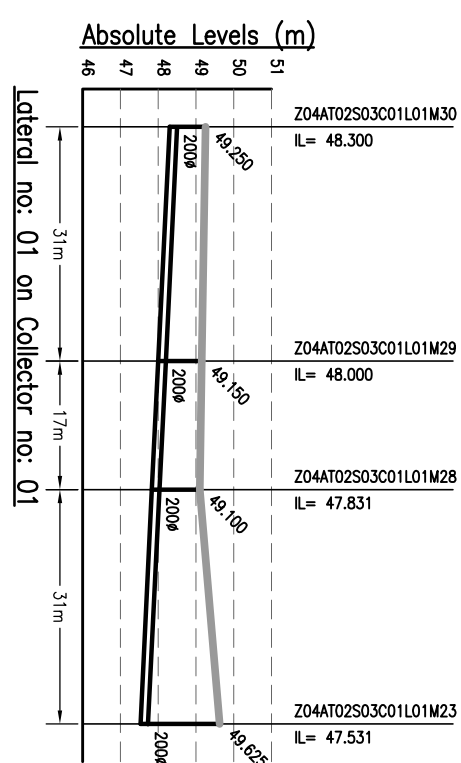
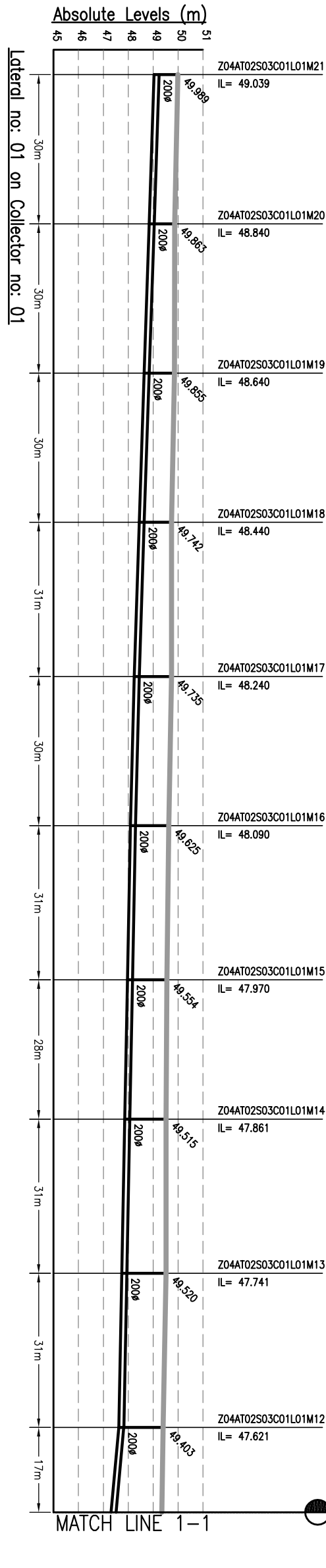
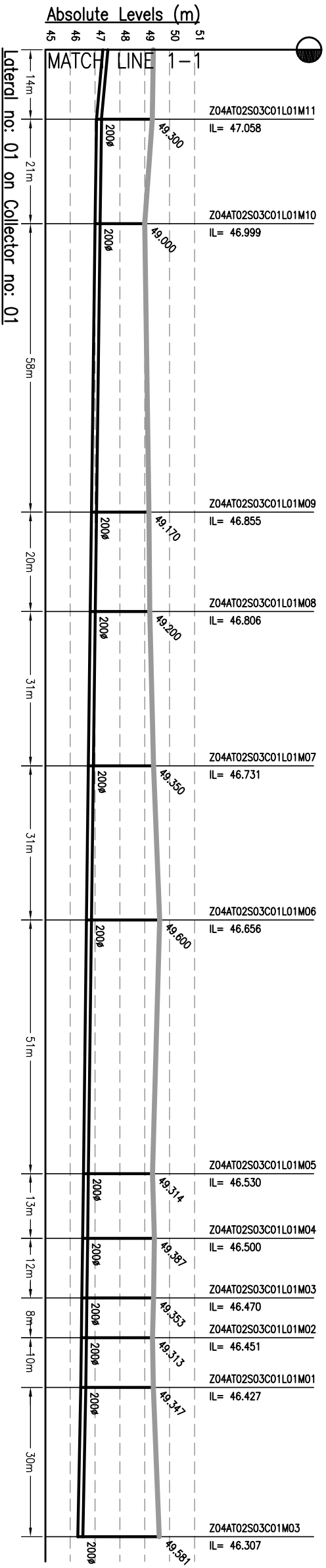
**PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS;
 TENDERING FOR EXECUTION;
 CONSTRUCTION SUPERVISION &
 QUALITY CONTROL OF SEWERAGE &
 DRAINAGE PROJECTS OF PATNA UNDER JNNURM**

CONSULTANT:-

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DRAWING TITLE
SEWERAGE
L-SECTION OF LATERAL
ZONE-4A, TRUNK-2 (SPS-B)
 (PART - 11 OF 11)

PURPOSE OF ISSUE	SCALE: H-1000, V-200
DRAFT DETAIL PROJECT REPORT	SHEET SIZE: A3
BY	DATE OF FIRST ISSUE
DESIGNED	MAY 2013
CHECKED	MAY 2013
APPROVED	MAY 2013
JOB NO.	DISCIPLINE
1092.01	PH
	DRAWING NO.
	Z4A-12-L-11
	REVISION
	00



DATE PLOTTED: 04/09/2013 10:00:00 AM

PROJECT:	303, Main Road, Patna, Bihar, India
CLIENT:	URBAN INFRASTRUCTURE DEVELOPMENT CORPORATION, BIHAR
DRAWING TITLE:	SEWERAGE L-SECTION OF LATERAL ZONE-4A, TRUNK-2 (PAHARI STP)
SCALE:	H-1000, V-200
DRAWN BY:	MEINHARDT (SINGAPORE) PTE. LTD.
CHECKED BY:	MEINHARDT (SINGAPORE) PTE. LTD.
DATE OF FIRST ISSUE:	SEPTEMBER 2013
DATE OF THIS ISSUE:	SEPTEMBER 2013
DISCIPLINE:	PH
DRAWING NO.:	Z4A-T2-L-12
REVISION:	00

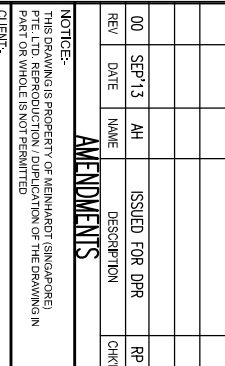
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AMENDMENTS

REV	DATE	NAME	DESCRIPTION	CHKD
00	SEP'13	AH	ISSUED FOR DPR	RP

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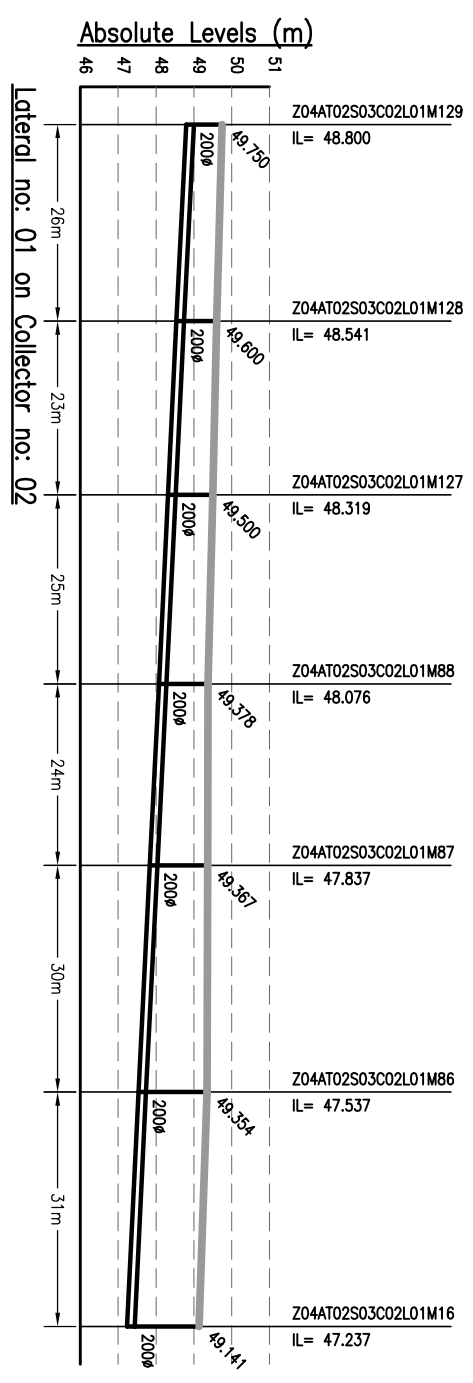
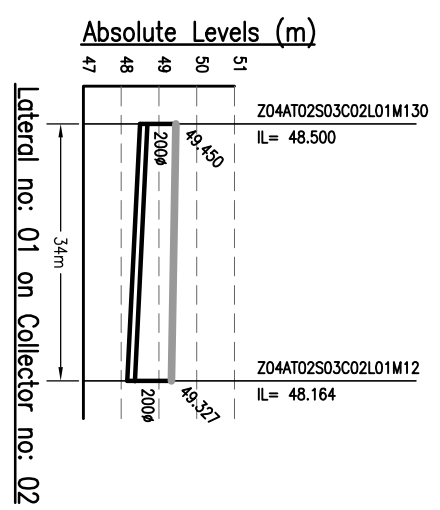
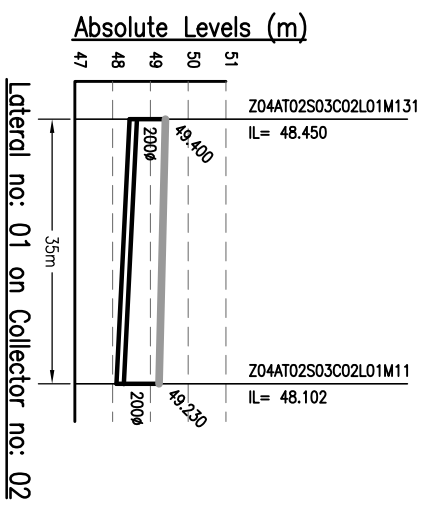


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PREPARATION OF DETAILED PROJECT REPORTS (DPRs) & BID DOCUMENTS;
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DRAWING NO. Z4A-T2-L-12



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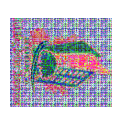
Drawing Base Reference:-
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

REV/	DATE	NAME	DESCRIPTION	CHKD/
00	SEP'13	AH	ISSUED FOR DPR	RP

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PREPARATION OF DETAILED PROJECT REPORTS (DPRS) & BID DOCUMENTS:
TENDERING FOR EXECUTION, CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE PROJECTS OF PATNA UNDER NGRBA

CONSULTANT:-

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DRAWING TITLE
SEWERAGE
L-SECTION OF LATERAL
ZONE-4A, TRUNK-2 (PAHARI STP)
 (PART - 13 OF 13)

PURPOSE OF ISSUE	SCALE	DATE OF FIRST ISSUE
DETAILED PROJECT REPORT (SEWERAGE)	H-1000, V-200	
DRAWN	BY	DATE
DESIGNED	BY	DATE
CHECKED	BY	DATE
APPROVED	BY	DATE
JOB NO.	DISCIPLINE	DRAWING NO.
1092.01	PH	Z4A-12-L-13
		REVISION
		00