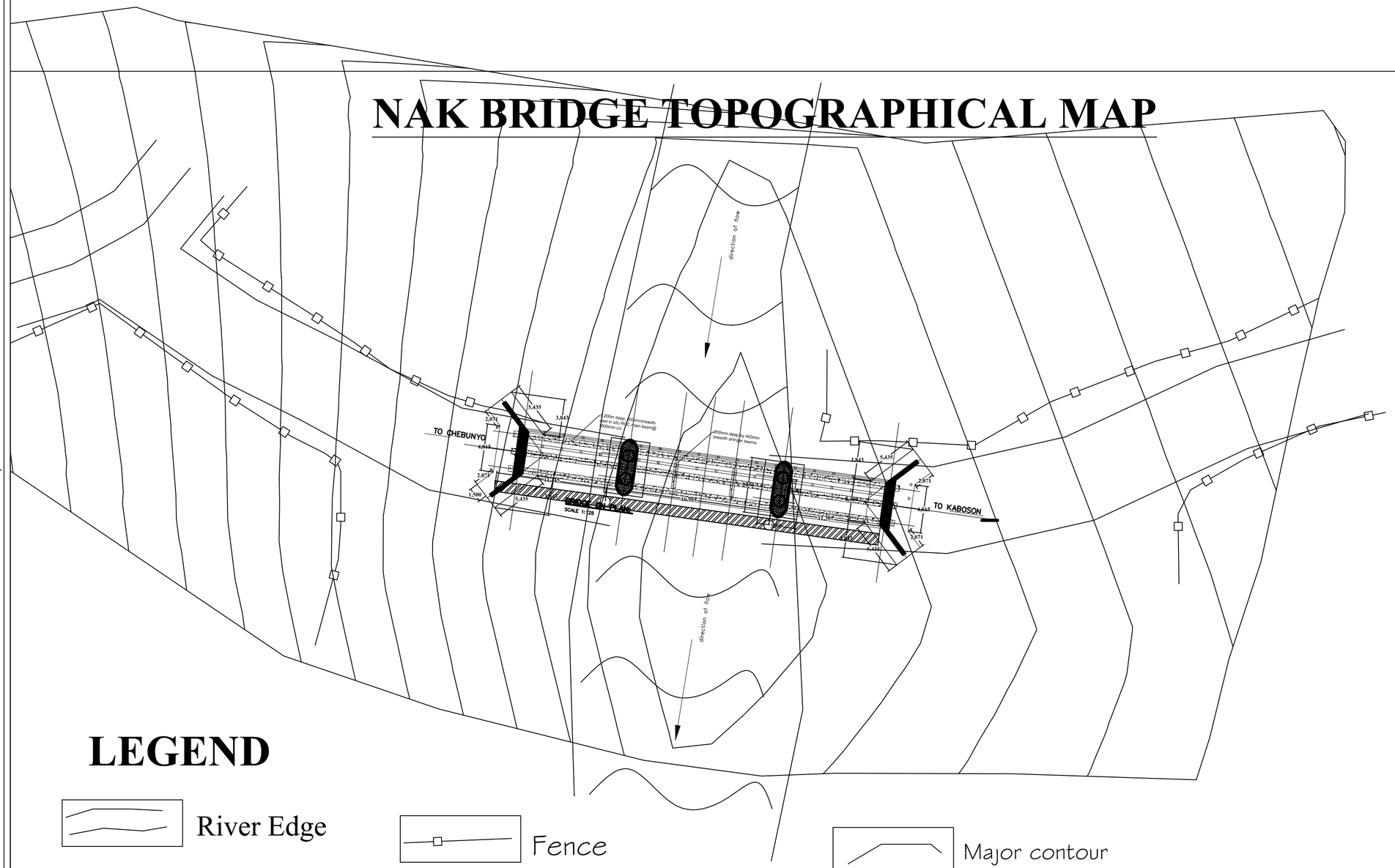
NAK BRIDGE TOPOGRAPHICAL MAP



LEGEND

River Edge

Road Edge

Fence

Footbridge

Major contour

Minor contour

NOTES

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REVISIONS

Date	Suffix	Descriptions

REPUBLIC OF KENYA

COUNTY GOVERNMENT OF BOMET

PROJECT

CONSTRUCTION OF NARC BRIDGE IN CHEBUNYO-SIGOR WARDS

TITLE

TOPOGRAPHICAL AND LAYOUT DETAILS

Wastruct Consultants Limited
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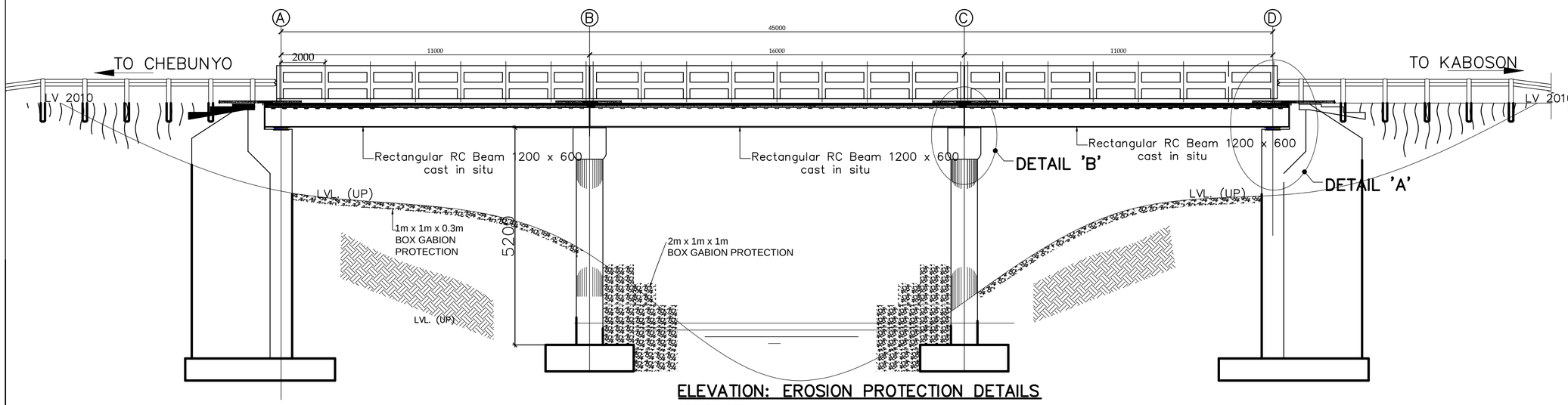
Drawn	K.Ng'eno.	Scale(s)	As shown
Designed	K.Ng'eno.	Date	January, 2020
Checked	K.Ng'eno.	Date	January, 2020
Approved		Date	January, 2020

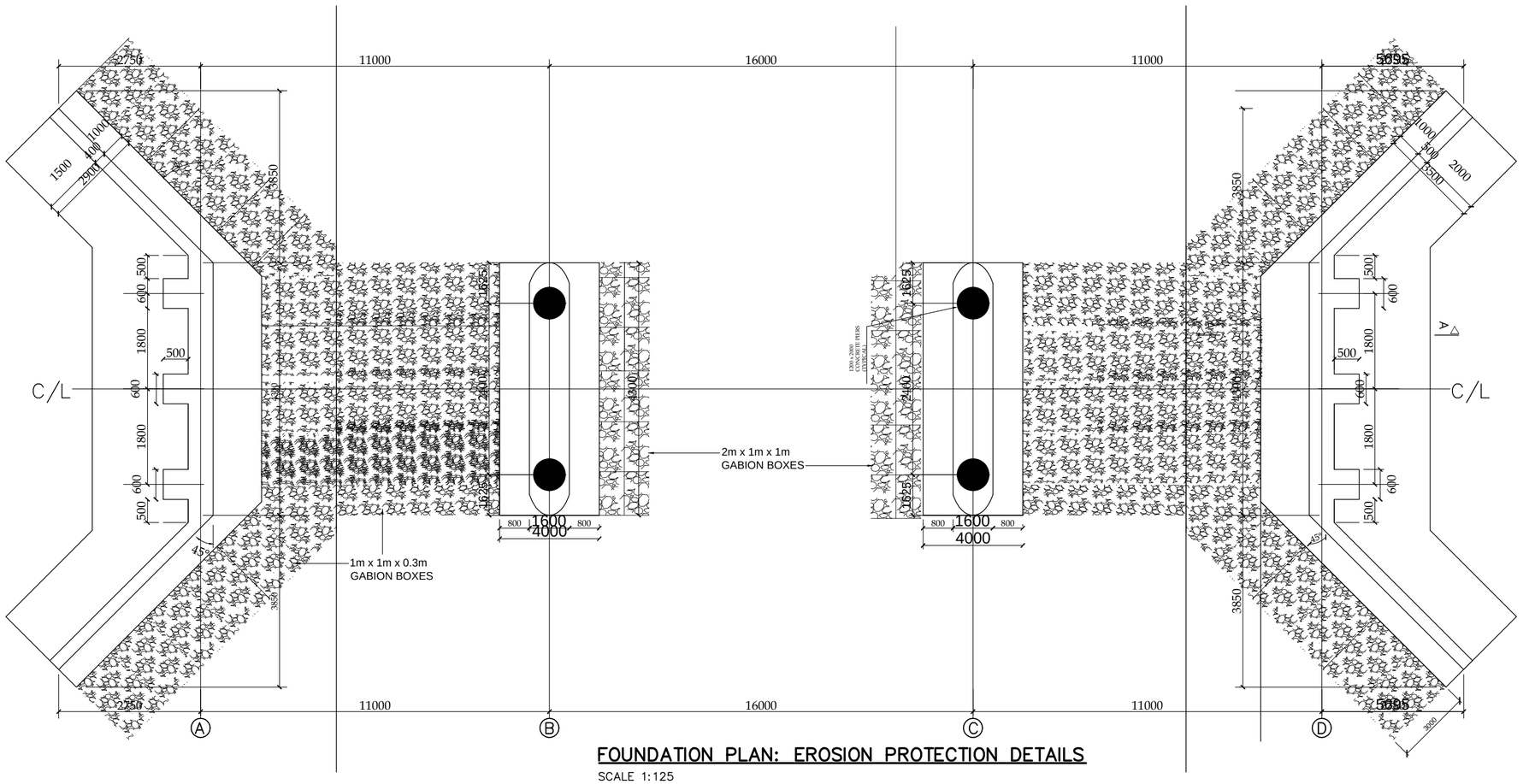
JOB No. 02 - 2020

DRG No. 01



ELEVATION: EROSION PROTECTION DETAILS

SCALE 1:125



FOUNDATION PLAN: EROSION PROTECTION DETAILS

SCALE 1:125

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REVISIONS

Date	Suffix	Descriptions

REPUBLIC OF KENYA

COUNTY GOVERNMENT OF BOMET

PROJECT

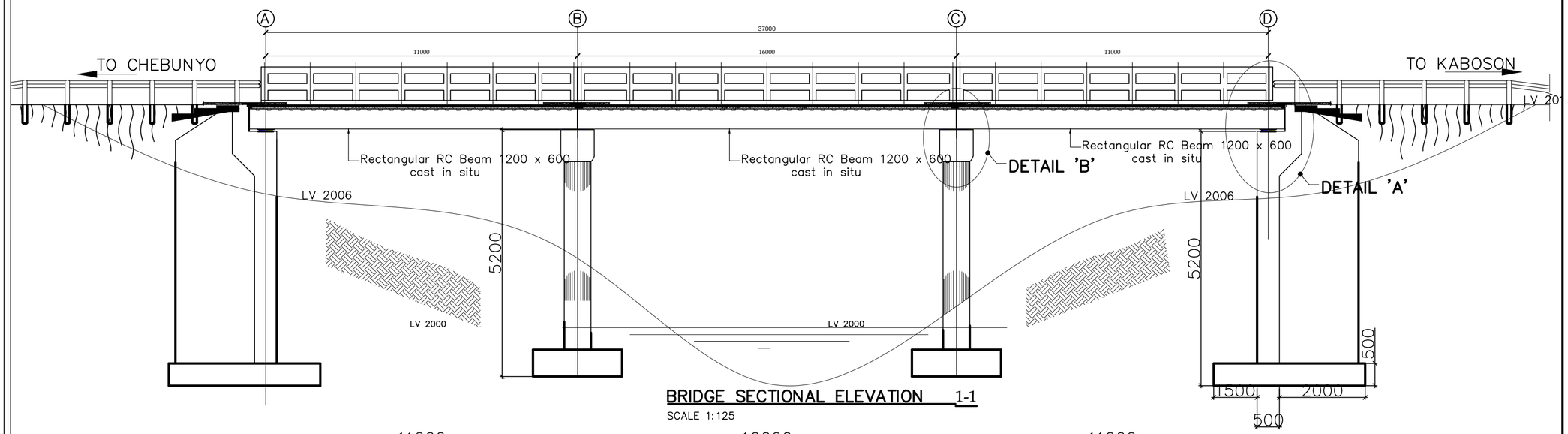
CONSTRUCTION OF NARC BRIDGE IN CHEBUNYO-SIGOR WARDS

TITLE

GENERAL DETAILS ON PLAN AND ELEVATION

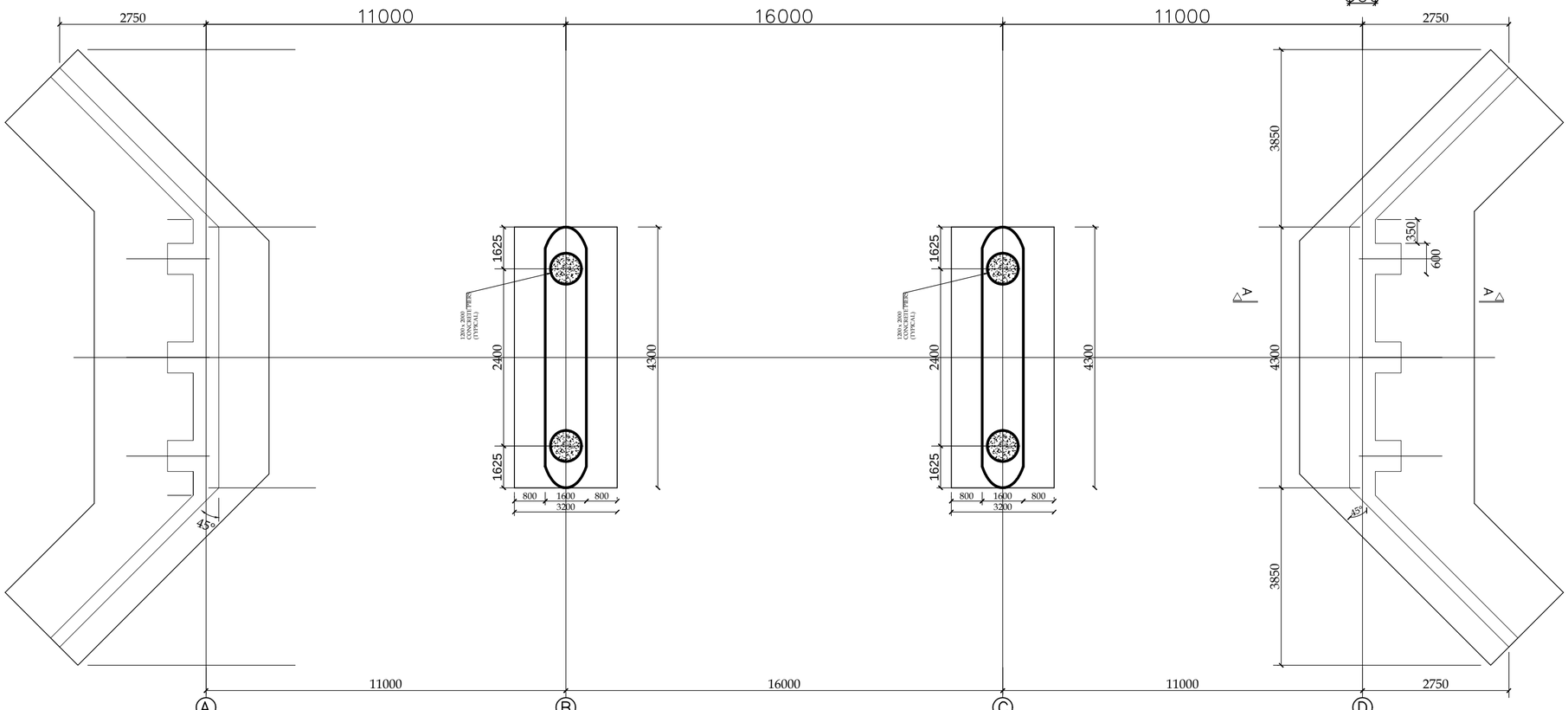
Drawn	K.Ng'eno.	Scale(s)	As shown
Designed	K.Ng'eno.	Date	January, 2020
Checked	K.Ng'eno.	Date	January, 2020
Approved		Date	January, 2020

JOB No. 02 - 2020 | DRG No. 02



BRIDGE SECTIONAL ELEVATION 1-1

SCALE 1:125



FOUNDATION LAYOUT

SCALE 1:125

NOTES

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REVISIONS

Date	Suffix	Descriptions

REPUBLIC OF KENYA

COUNTY GOVERNMENT OF BOMET

PROJECT

CONSTRUCTION OF NARC BRIDGE IN CHEBUNYO-SIGOR WARDS

TITLE

FOUNDATION LAYOUT AND SECTION DETAILS

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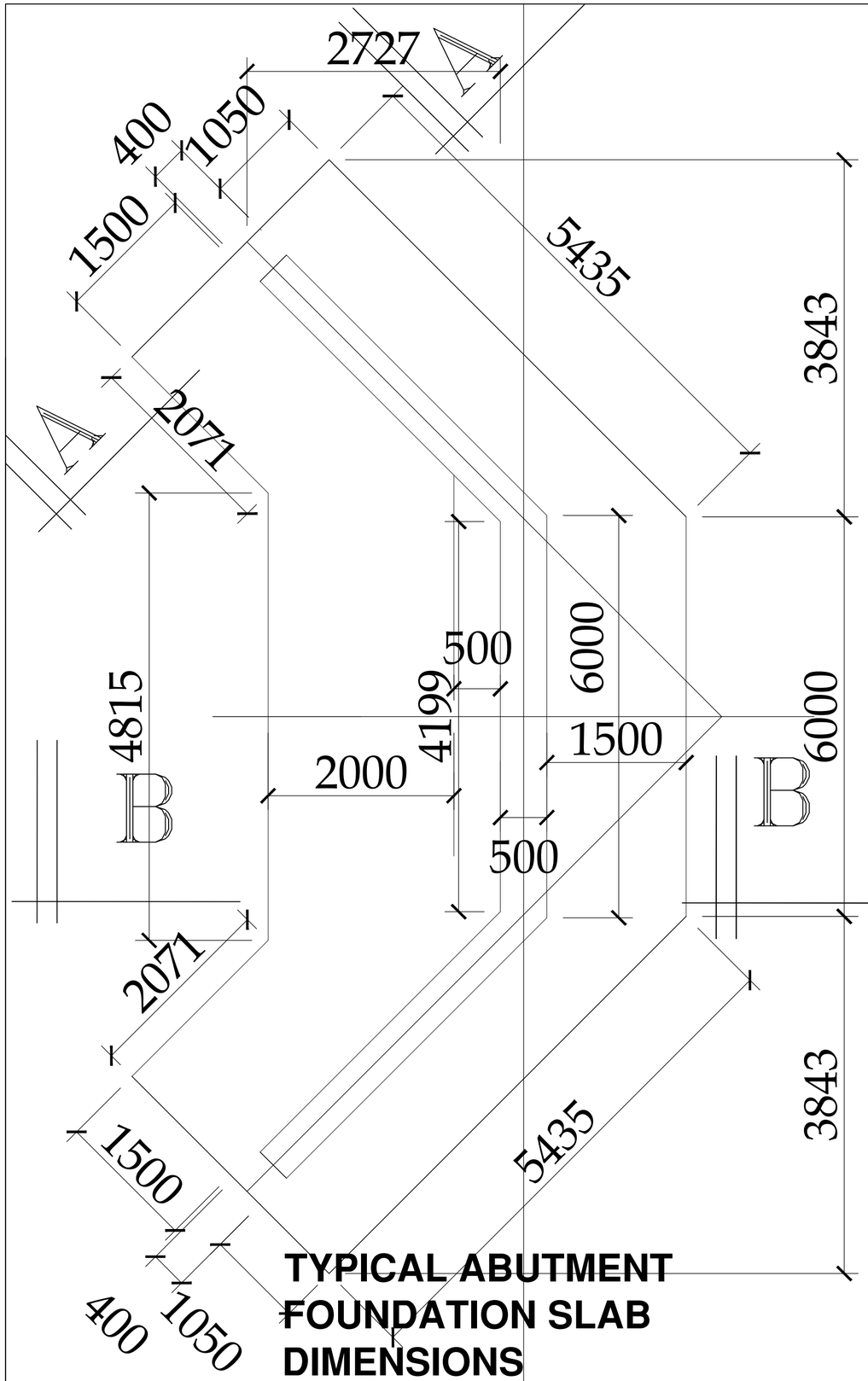
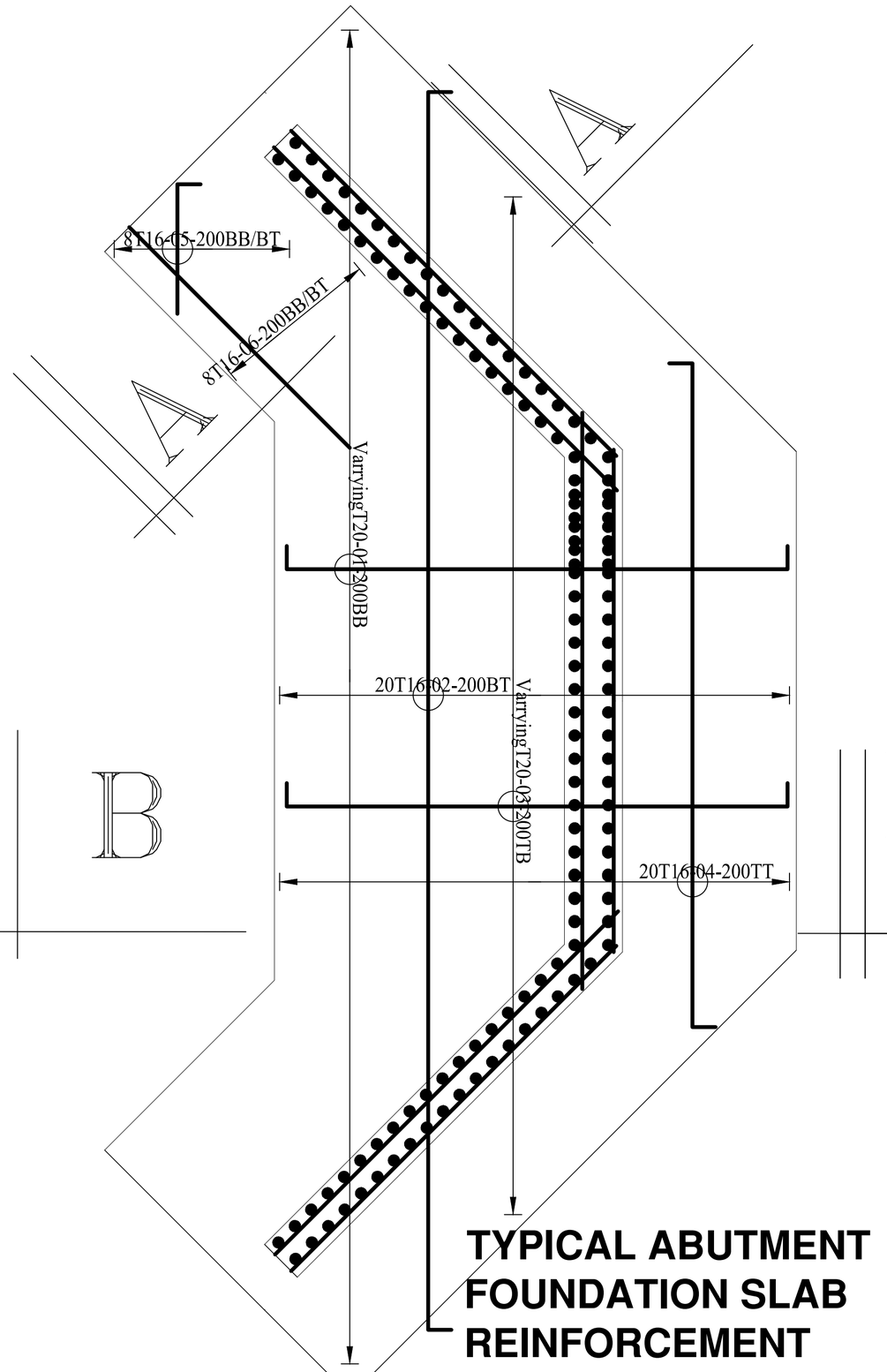
Approved		Date	January, 2020

JOB No. 02 - 2020 | DRG No. 03



TYPICAL ABUTMENT FOUNDATION SLAB DIMENSIONS



TYPICAL ABUTMENT FOUNDATION SLAB REINFORCEMENT DETAILS

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REVISIONS

Date	Suffix	Descriptions

REPUBLIC OF KENYA

COUNTY GOVERNMENT OF BOMET

PROJECT

CONSTRUCTION OF NARC BRIDGE IN CHEBUNYO-SIGOR WARDS

TITLE

ABUTMENT FOUNDATION LAYOUT PLAN AND REINFORCEMENT DETAILS

Wastruct Consultants Limited
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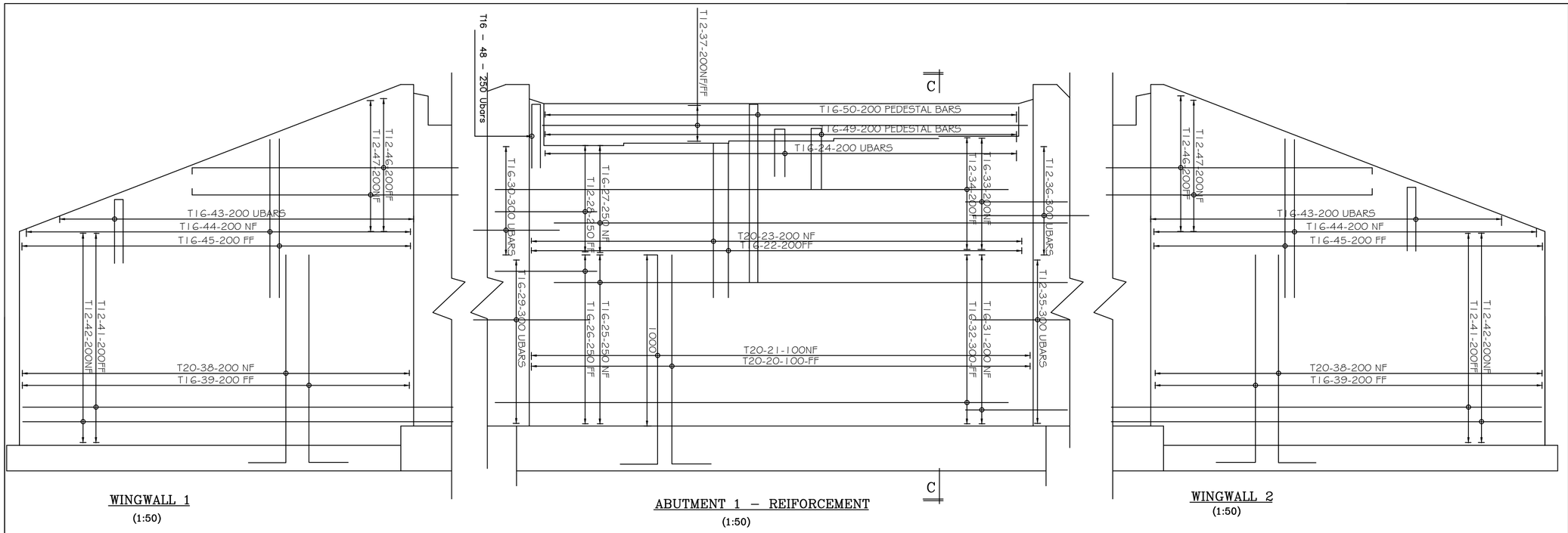
Designed	K.Ng'eno.	Date	January, 2020
Checked	K.Ng'eno.	Date	January, 2020
Approved		Date	January, 2020
JOB No. 02 - 2020		DRG No. 04	

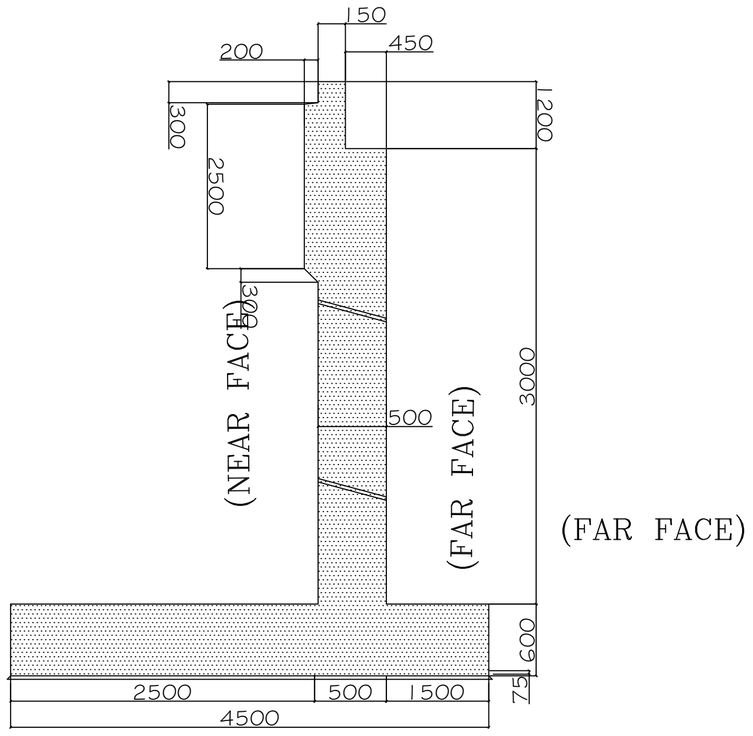


WINGWALL 1
(1:50)

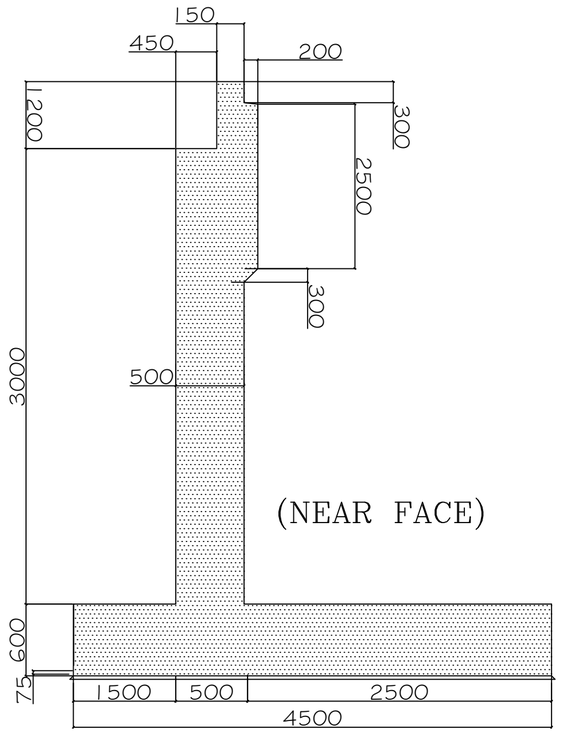
ABUTMENT 1 – REIFORCEMENT
(1:50)

WINGWALL 2
(1:50)

ABUTMENT AND WINGWALLS REINFORCEMENT



ABUTMENT 2 (1:100)



ABUTMENT 1 (1:100)

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REVISIONS

Date	Suffix	Descriptions

REPUBLIC OF KENYA

COUNTY GOVERNMENT OF BOMET

PROJECT

CONSTRUCTION OF NARC BRIDGE IN CHEBUNYO-SIGOR WARDS

TITLE

ABUTMENT WALL AND WING WALL REINFORCEMENT DETAILS

Wastruct Consultants Limited
Civil Engineers
16 Mucai Rd
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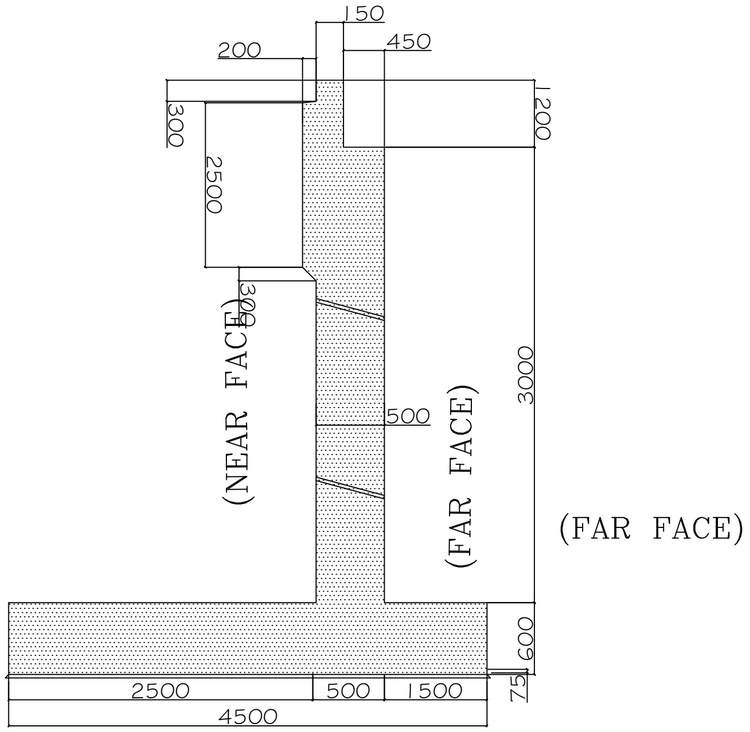
Checked	K.Ng'eno.	Date	January, 2020
Approved		Date	January, 2020

JOB No. 02 - 2020

DRG No. 05



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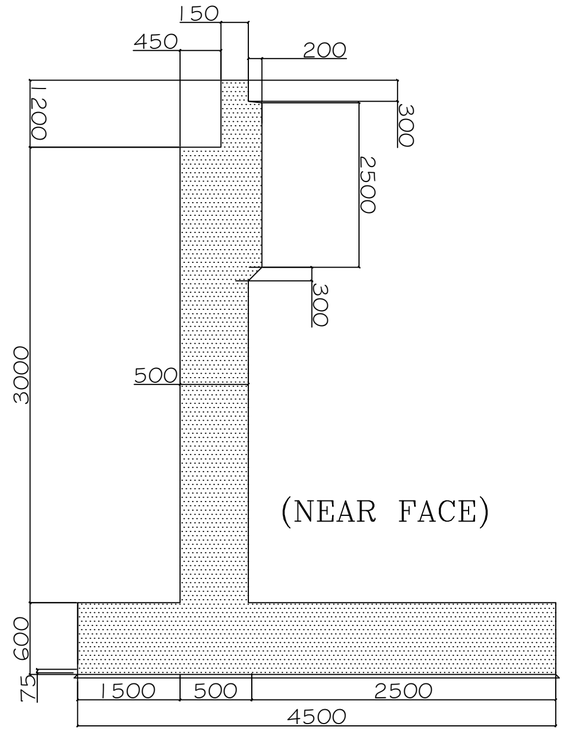

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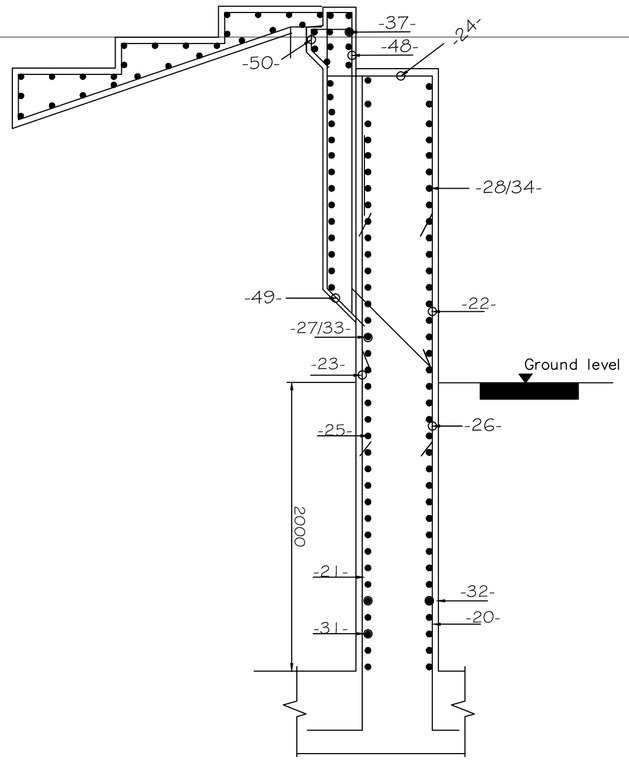
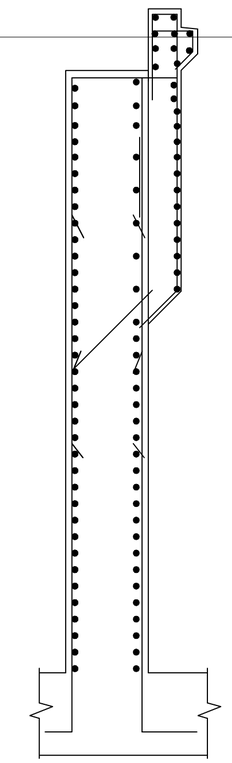


SECTION c–c
Abutment 1 (1:50)



SECTION C–C
Abutment 2 (1:50)

Reinforcement Code:

20 - T20-100FF
21 - T20-100NF
22 - T16 - 250NF
23 - T20-200NF
25 - T16-250NF
26 - T16-250NF
27 - T16-250NF
28 - T12 - 250FF
29 - T16-300 Ubars
31 - T16 - 200NF
32 - T16 - 200FF
33 - T16 - 200NF
34 - T12 - 200FF
37 - T12 - 200 Breast wall bars
48 - T16 - 250 UBars
50 - T16 - 200 Pedestal Bars

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REVISIONS

Date	Suffix	Descriptions

REPUBLIC OF KENYA

COUNTY GOVERNMENT OF BOMET

PROJECT

CONSTRUCTION OF NARC BRIDGE IN CHEBUNYO-SIGOR WARDS

TITLE

AUTMENT: CROSS-SECTION AND REINFORCEMENT BARS DETAILS

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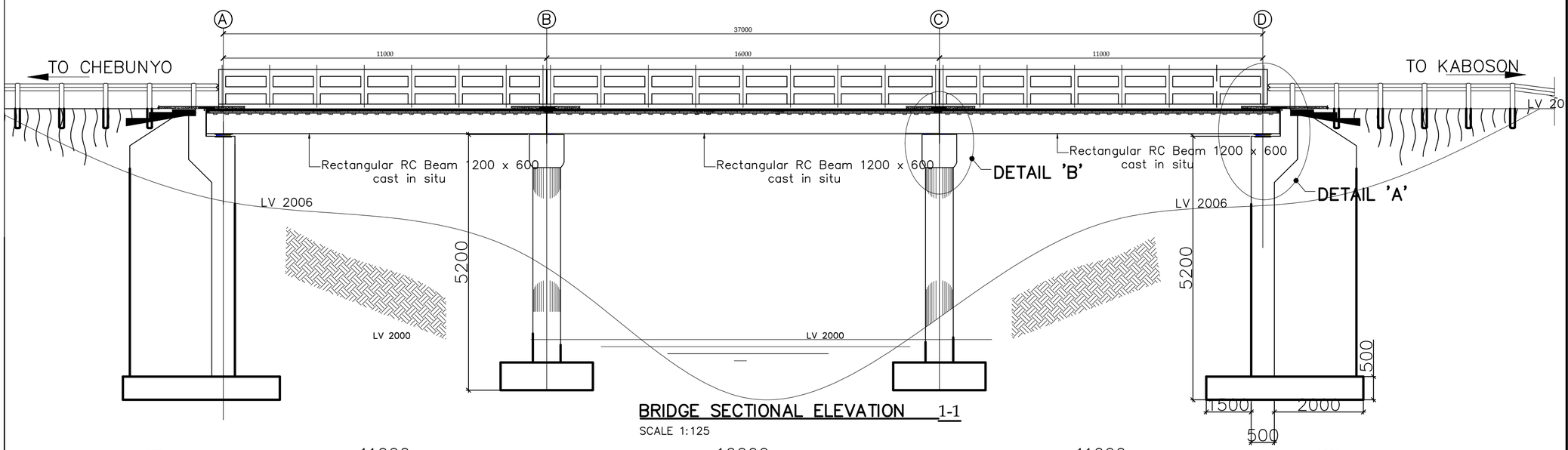
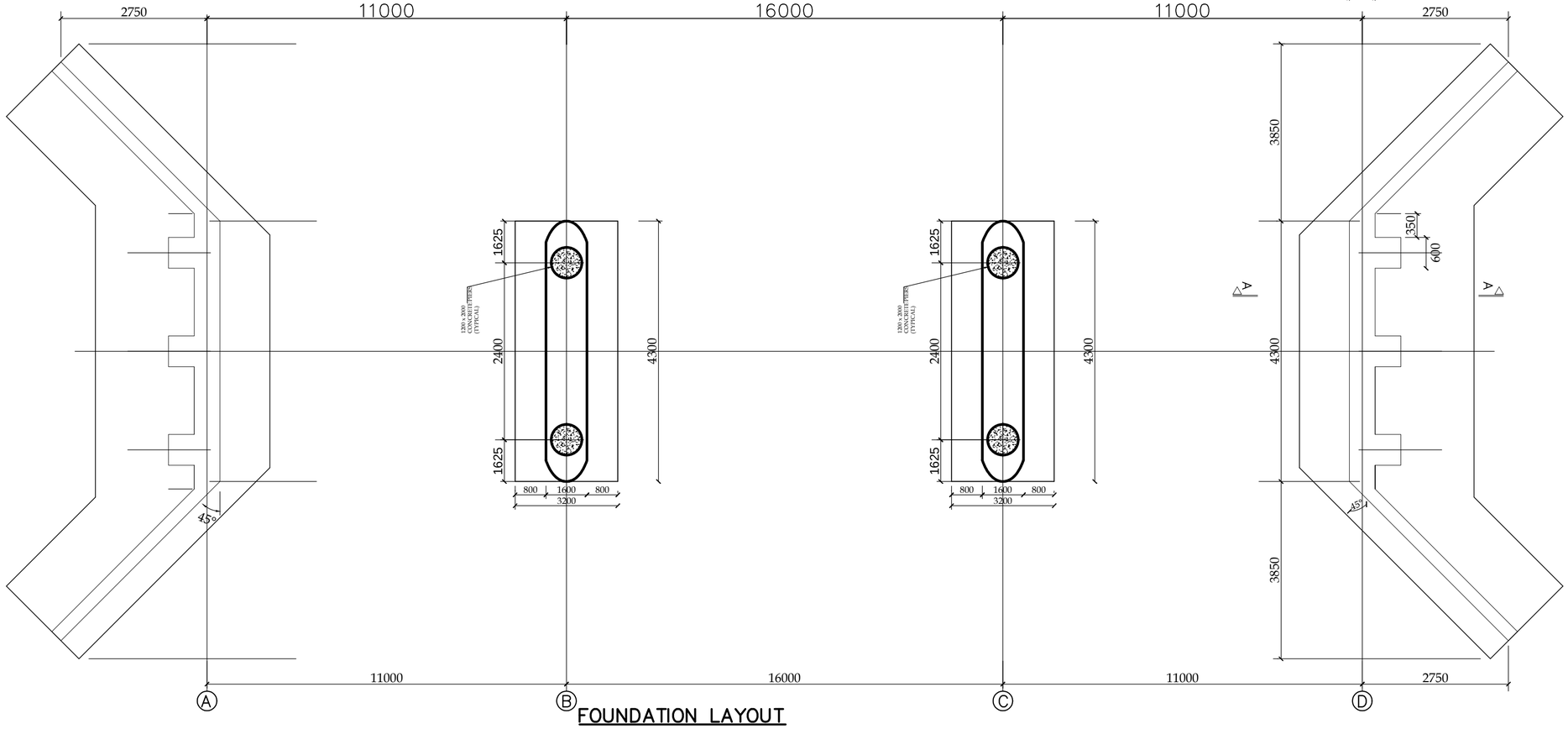
Drawn	K.Ng'eno.	Scale(s)	As shown
Designed	K.Ng'eno.	Date	January, 2020
Checked	K.Ng'eno.	Date	January, 2020
Approved		Date	January, 2020
JOB No. 02 - 2020		DRG No. 06	



BRIDGE SECTIONAL ELEVATION 1-1

SCALE 1:125



FOUNDATION LAYOUT

SCALE 1:125

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REVISIONS

Date	Suffix	Descriptions

REPUBLIC OF KENYA

COUNTY GOVERNMENT OF BOMET

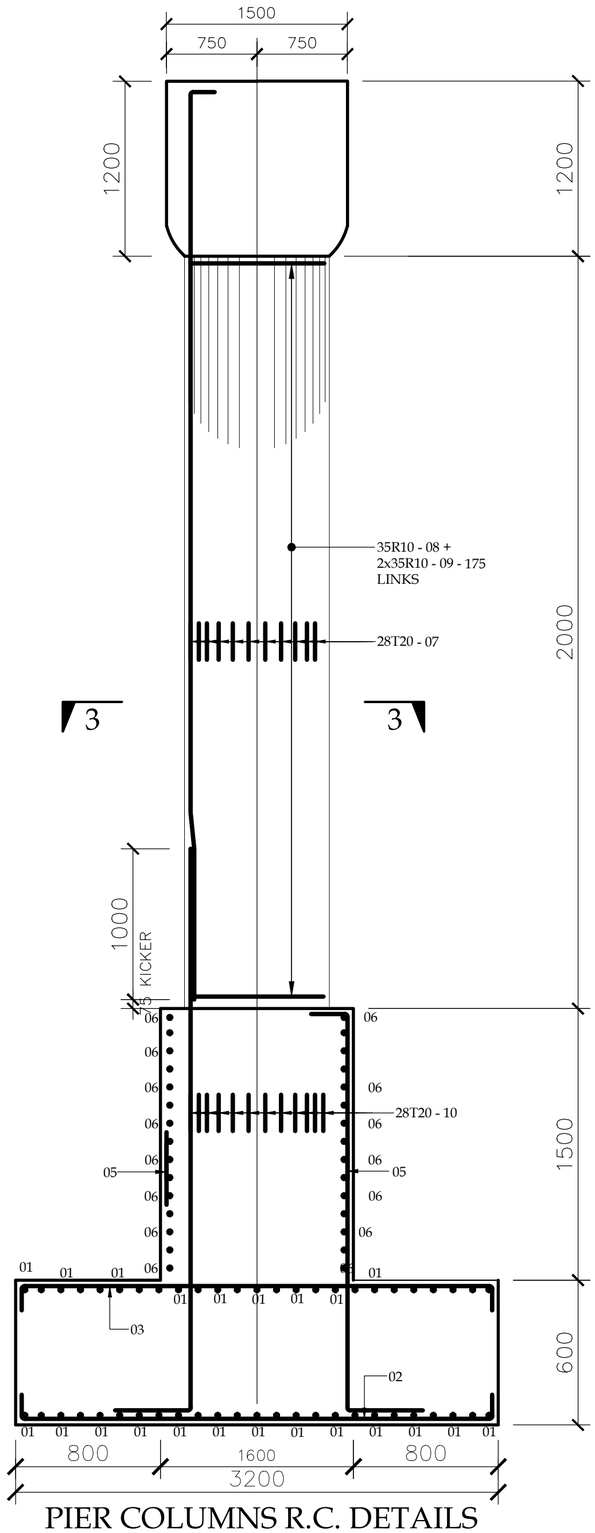
PROJECT

CONSTRUCTION OF NARC BRIDGE IN CHEBUNYO-SIGOR WARDS

TITLE

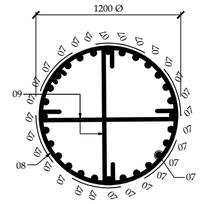
BRIDGE: LONGITUDINAL ELEVATION AND DIMENSION DETAILS

Drawn	K.Ng'eno.	Scale(s)	As shown
Designed	K.Ng'eno.	Date	January, 2020
Checked	K.Ng'eno.	Date	January, 2020
Approved		Date	January, 2020
JOB No. 02 - 2020		DRG No. 07	

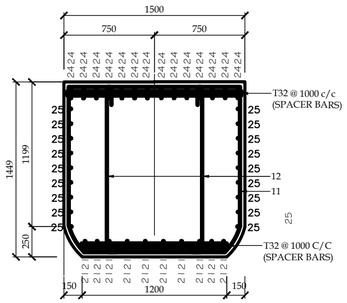


PIER COLUMNS R.C. DETAILS
(8 Nos.)

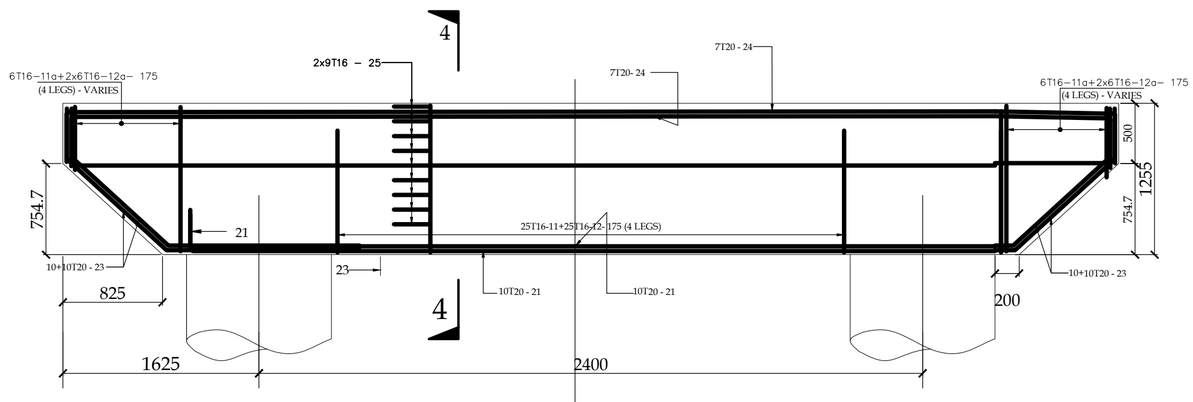
SCALE 1:35



SECTION 3-3



SECTION 4-4



KORBEL BEAM R.C. DETAILS
(2 Nos)

SCALE 1:25

NOTES

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REVISIONS

Date	Suffix	Descriptions

REPUBLIC OF KENYA

COUNTY GOVERNMENT OF BOMET

PROJECT

CONSTRUCTION OF NARC BRIDGE IN CHEBUNYO-SIGOR WARDS

TITLE

INTERMEDIATE PIER: GENERAL DETAILS, DIMENSIONS

Wastruct Consultants Limited
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Drawn	K.Ng'eno.	Scale(s)	As shown
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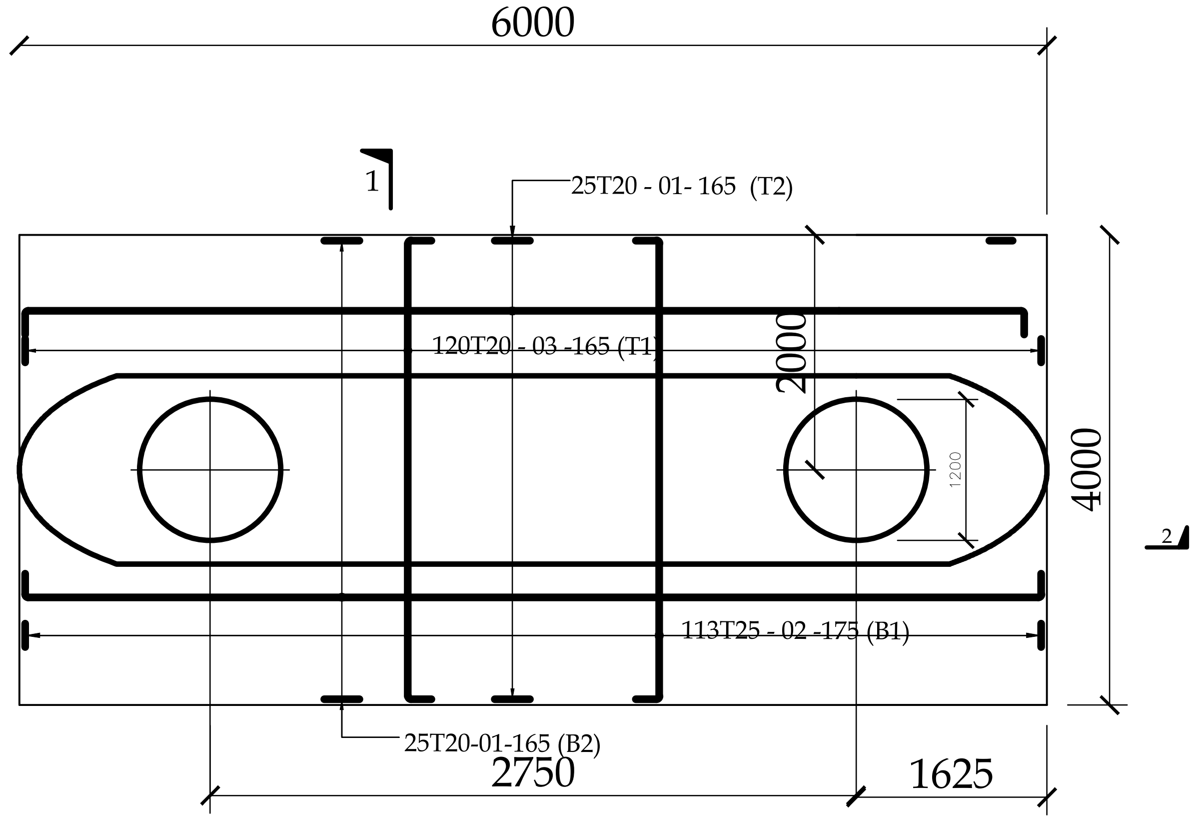
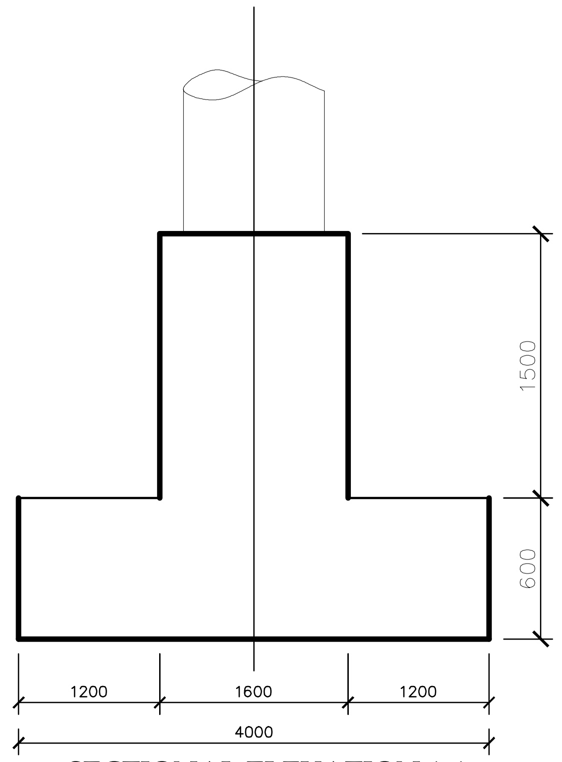
Approved		Date	January, 2020

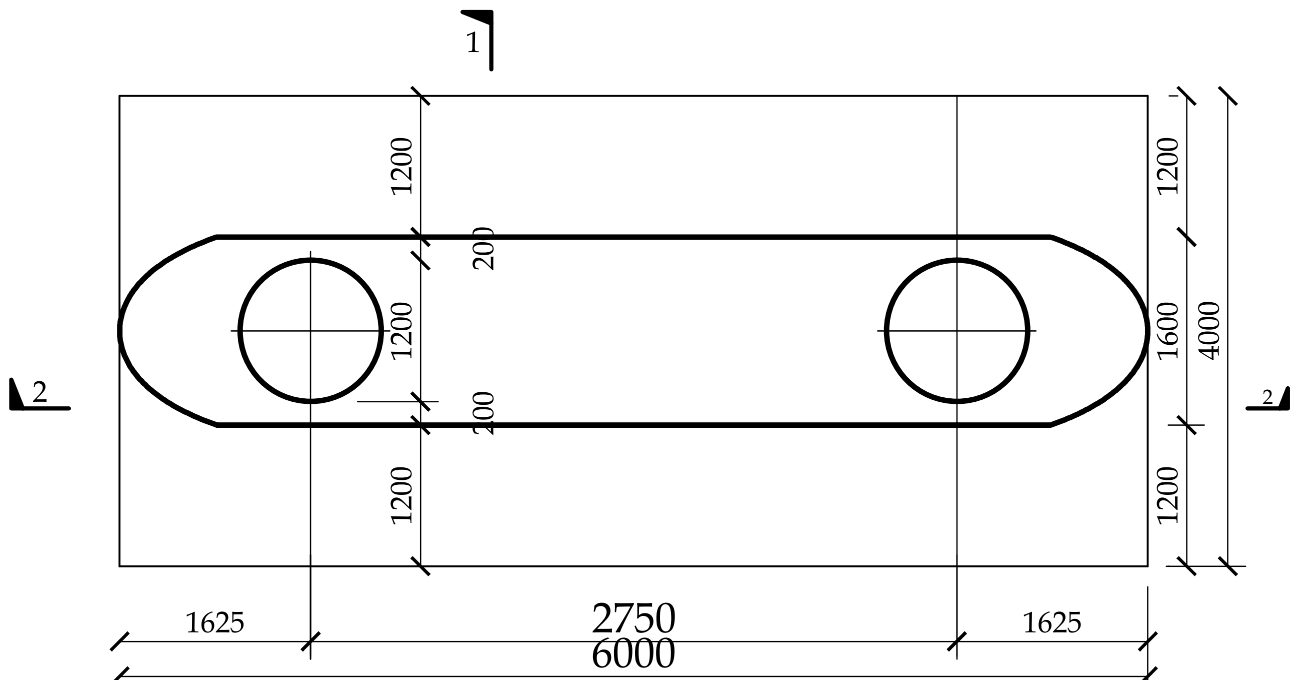
JOB No. 02 - 2020 | DRG No. 8



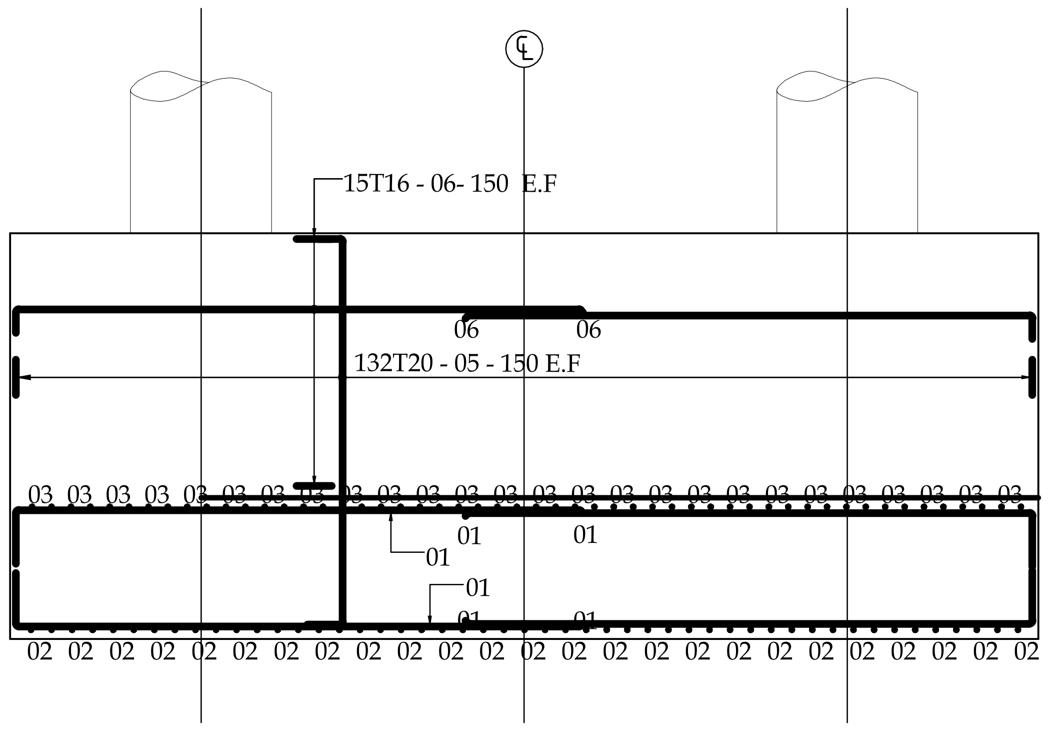
PIERS FOOTING R.C. DETAILS
(2 Nos.)
SCALE 1:35



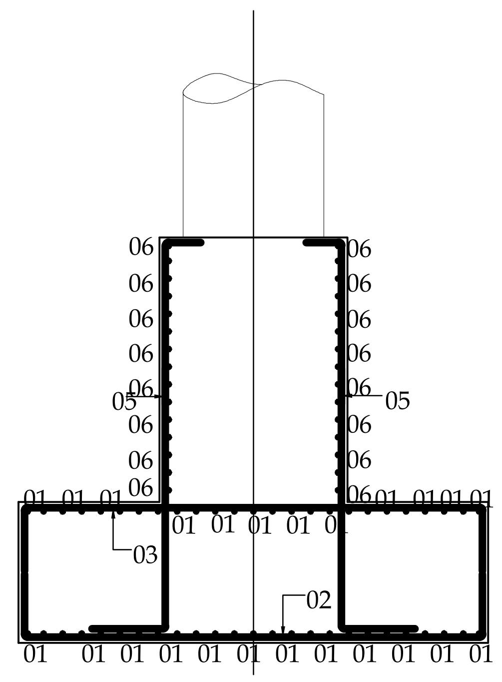
SECTIONAL ELEVATION 1-1
SCALE 1:35



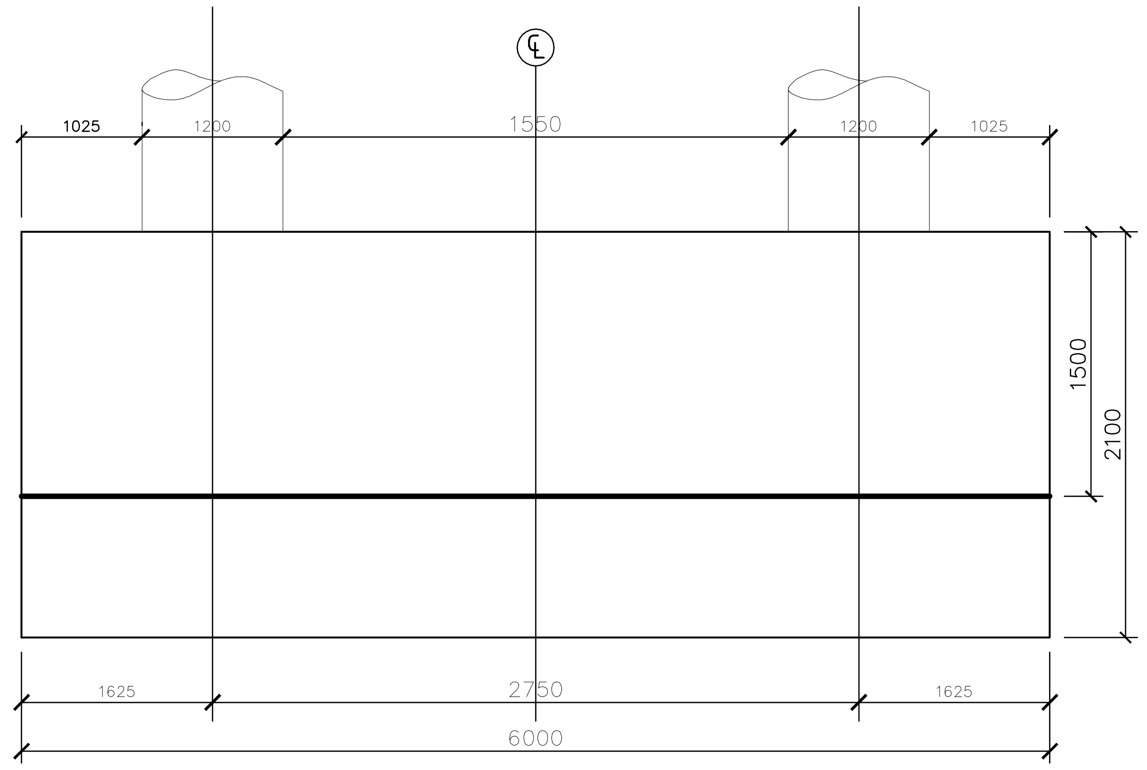
PIERS FOOTING R.C. DETAILS
(2 Nos.)
SCALE 1:35



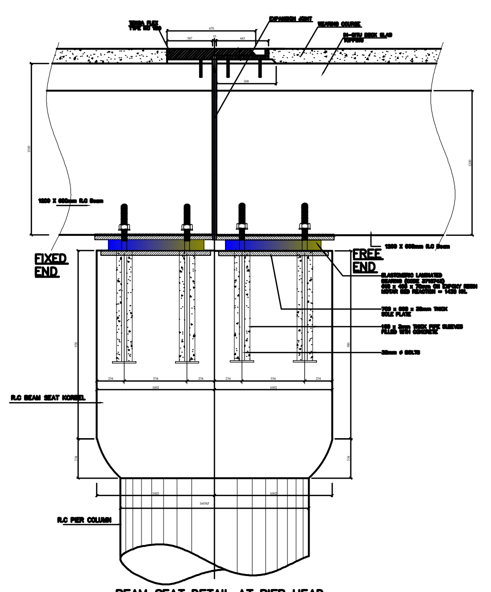
SECTION 2-2
SCALE 1:35



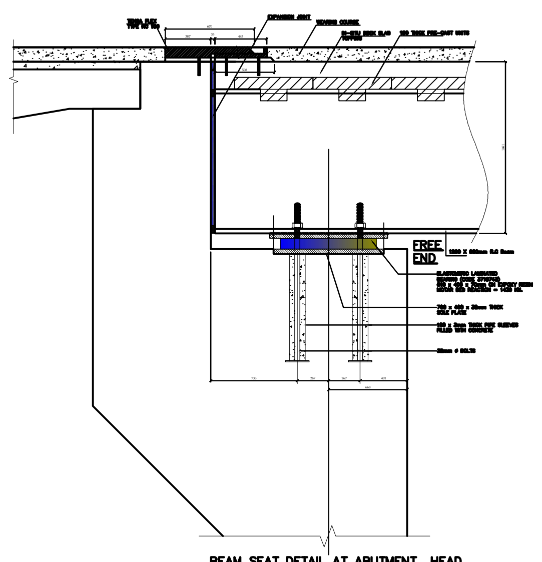
SECTION 1-1
SCALE 1:35



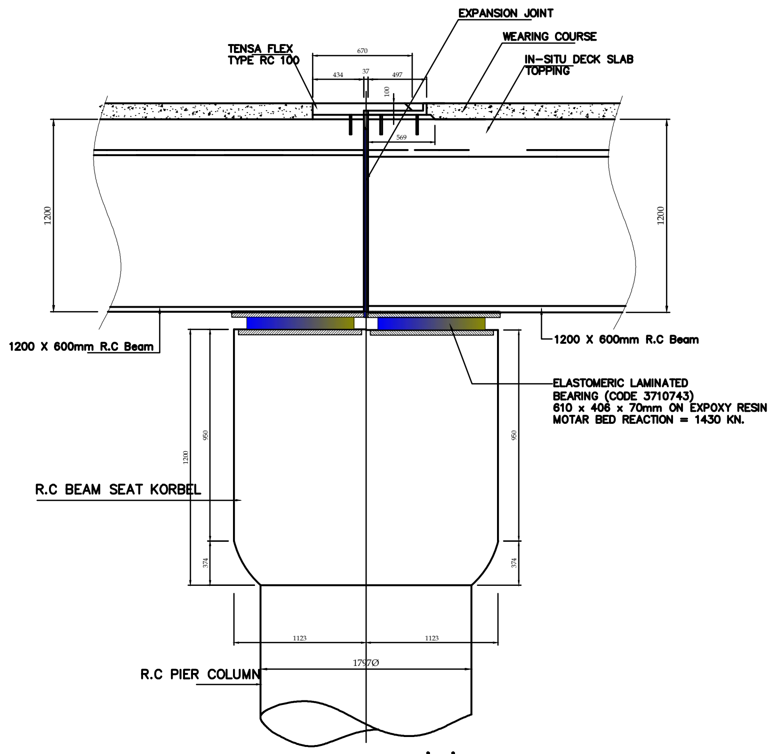
SECTIONAL ELEVATION
SCALE 1:35



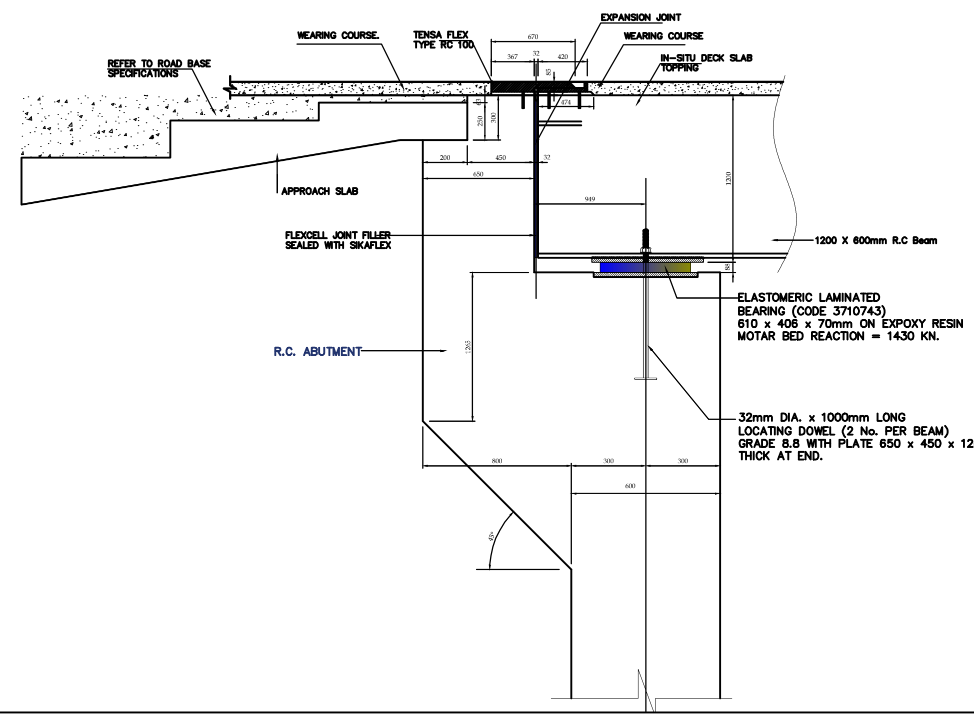
BEAM SEAT DETAIL AT PIER HEAD



BEAM SEAT DETAIL AT ABUTMENT HEAD



DETAIL 'B'
SCALE 1:20



NOTES

1. **All dimensions are in millimeters, unless otherwise stated.**
2. **This drawing must not be scaled ,only figured dimensions should be used.**
3. **Reinforced concrete to be grade 30/25 to BS 8110.**
4. **Cover to main reinforcement to be as follows:**
   (a) Foundation = 75mm
   (b) Columns = 40mm
   (c) Beams = 30mm
   (d) Slabs = 20mm
5. **"T" Denotes ribbed bars high yield bars to BS 4461.**
   "R" Denotes round mild steel bars to BS 4449.
6. **Reinforcement in walls and columns must be inspected by the Engineer before being enclosed in the form-work.**
7. **The setting out data and levels of all structures to be checked and approved by bridge engineer prior to any construction work.**
8. **All foundations levels shown are tentative and will be required to be founded at a level and in a stratum to be determined on site by the bridge engineer**
9. **All excavations shall be to the lines and depths directed by the bridge engineer prior to any construction work including laying of blinding.**
10. **filling for structure shall be of selected material, as directed by the engineer brought up in horizontal layers not exceeding 150mm compacted thickness. each layer shall be thoroughly mixed, watered and dried as necessary and compacted to a minimum dry density of 35% m.o.d**

REVISIONS

Date	Suffix	Descriptions

REPUBLIC OF KENYA

COUNTY GOVERNMENT OF BOMET

PROJECT

CONSTRUCTION OF NARC BRIDGE IN CHEBUNYO-SIGOR WARDS

TITLE

INTERMEDIATE PIER: FOUNDATIONS DETAILS

Wastruct Consultants Limited
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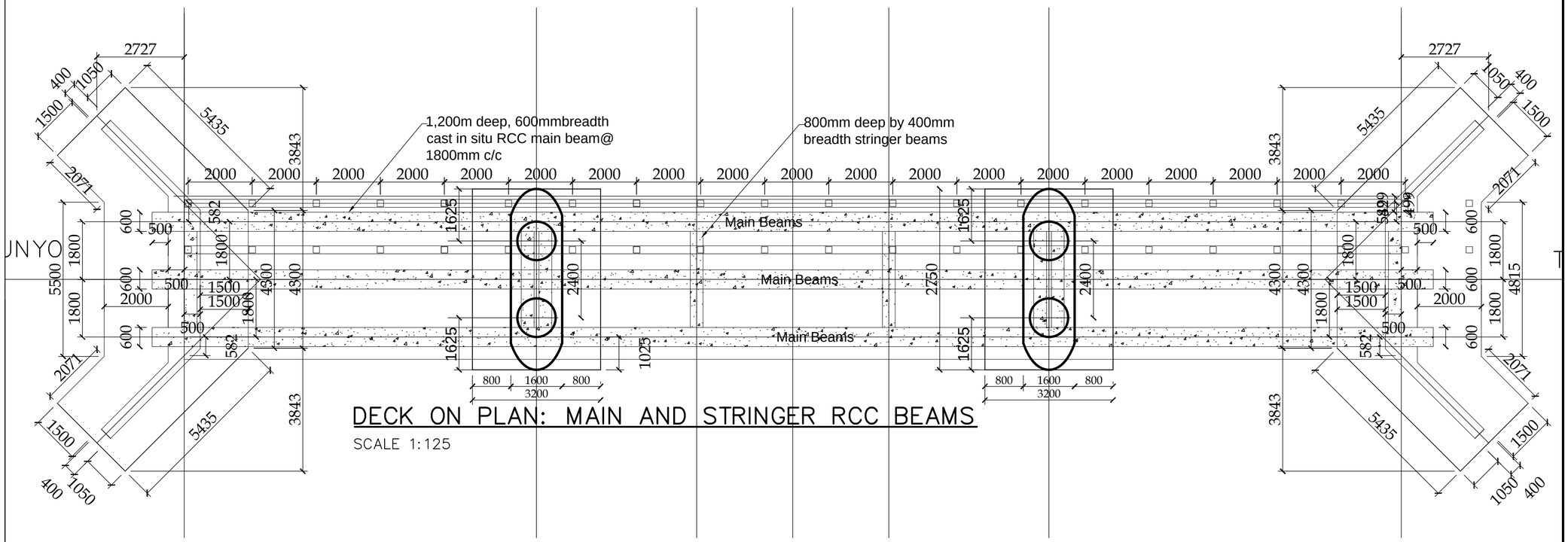
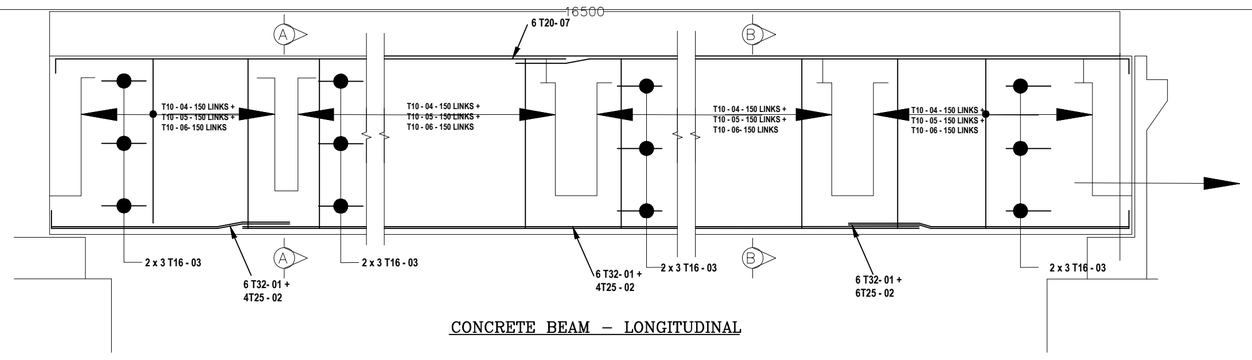
Designed	K.Ng'eno.	Date	January, 2020
Checked	K.Ng'eno.	Date	January, 2020
Approved		Date	January, 2020
JOB No. 02 - 2020		DRG No. 09	

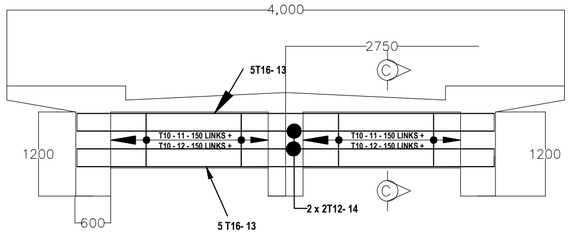


DECK ON PLAN: MAIN AND STRINGER RCC BEAMS

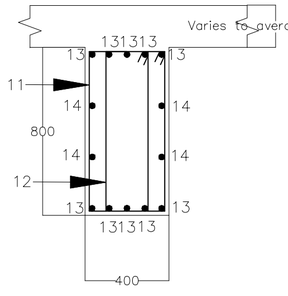
SCALE 1:125



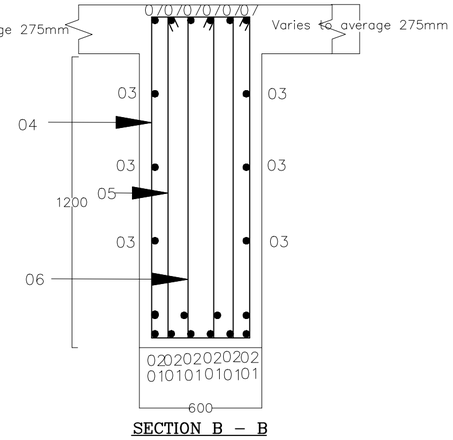
CONCRETE BEAM – LONGITUDINAL



SECTION A – A



SECTION C – C



SECTION B – B

NOTES

1. All dimensions are in millimeters, unless otherwise stated.
2. This drawing must not be scaled ,only figured dimensions should be used.
3. Reinforced concrete to be grade 30/25 to BS 8110.
4. Cover to main reinforcement to be as follows:
   (a) Foundation = 75mm
   (b) Columns = 40mm
   (c) Beams = 30mm
   (d) Slabs = 20mm
5. "T" Denotes ribbed bars high yield bars to BS 4461.
   "R" Denotes round mild steel bars to BS 4449.
6. Reinforcement in walls and columns must be inspected by the Engineer before being enclosed in the form-work.
7. The setting out data and levels of all structures to be checked and approved by bridge engineer prior to any construction work.
8. All foundations levels shown are tentative and will be required to be founded at a level and in a stratum to be determined on site by the bridge engineer
9. All excavations shall be to the lines and depths directed by the bridge engineer prior to any construction work including laying of blinding.
10. filling for structure shall be of selected material, as directed by the engineer brought up in horizontal layers not exceeding 150mm compacted thickness. each layer shall be thoroughly mixed, watered and dried as necessary and compacted to a minimum dry density of 35% m.o.d

REVISIONS

Date	Suffix	Descriptions

REPUBLIC OF KENYA

COUNTY GOVERNMENT OF BOMET

PROJECT

CONSTRUCTION OF NARC BRIDGE IN CHEBUNYO-SIGOR WARDS

TITLE

BEAMS: GENERAL LAYOUT AND ARRANGEMENT OF MAIN AND STRINGER BEAMS

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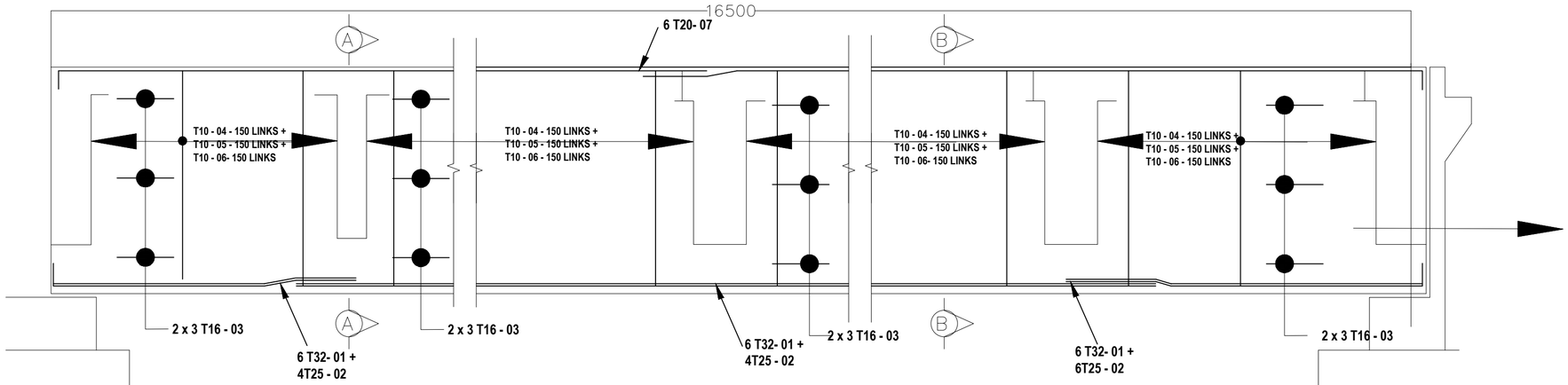
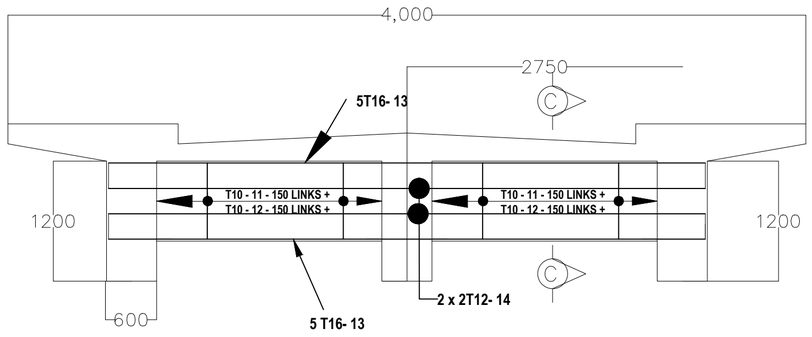
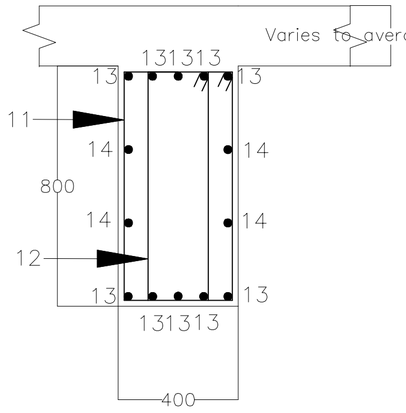
Designed	K.Ng'eno.	Date	January, 2020
Checked	K.Ng'eno.	Date	January, 2020
Approved		Date	January, 2020
JOB No. 02 - 2020		DRG No. 10	



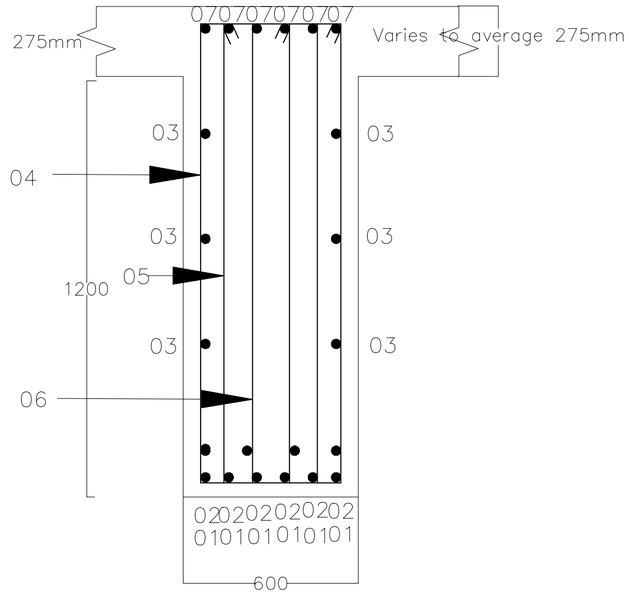
CONCRETE BEAM – LONGITUDINAL



SECTION A – A



SECTION C – C



SECTION B – B

NOTES

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REVISIONS

Date	Suffix	Descriptions

REPUBLIC OF KENYA

COUNTY GOVERNMENT OF BOMET

PROJECT

CONSTRUCTION OF NARC BRIDGE IN CHEBUNYO-SIGOR WARDS

TITLE

BEAMS: CROSS-SECTION AND REINFORCEMENT DETAILS

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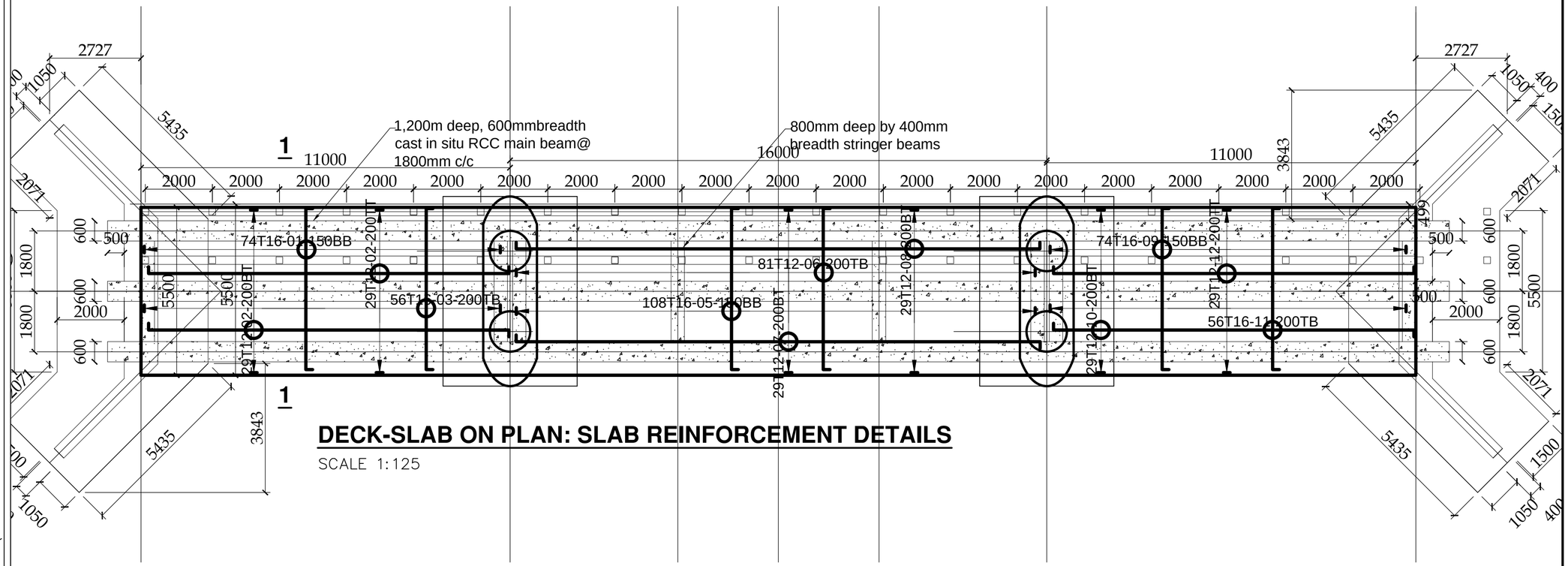
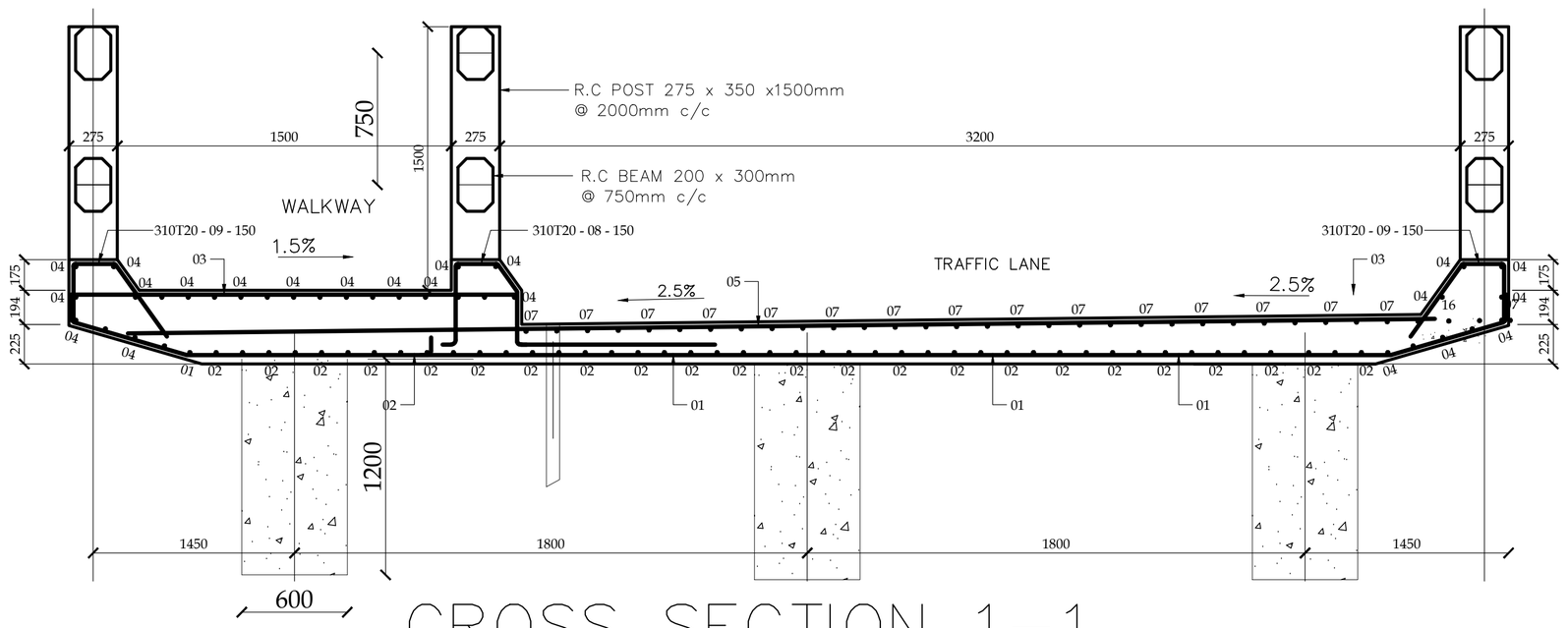
Approved		Date	January, 2020

JOB No. 02 - 2020 | DRG No. 11



DECK-SLAB ON PLAN: SLAB REINFORCEMENT DETAILS

SCALE 1:125



CROSS SECTION 1—1

SCALE 1:50

NOTES

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REVISIONS

Date	Suffix	Descriptions

REPUBLIC OF KENYA

COUNTY GOVERNMENT OF BOMET

PROJECT

CONSTRUCTION OF NARC BRIDGE IN CHEBUNYO-SIGOR WARDS

TITLE

TOP SLAB: LAYOUT, CROSS SECTION AND REINFORCEMENT DETAILS

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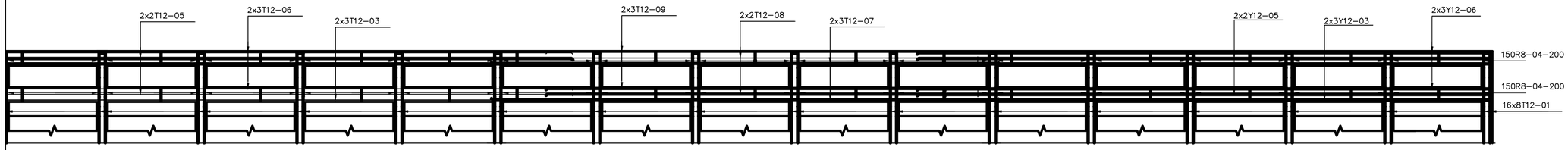
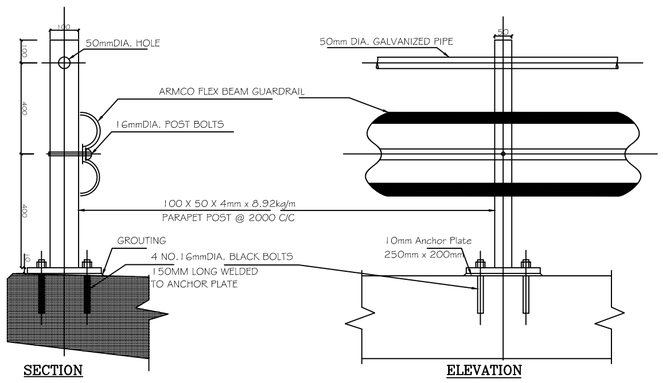
Checked	K.Ng'eno.	Date	January, 2020
Approved		Date	January, 2020

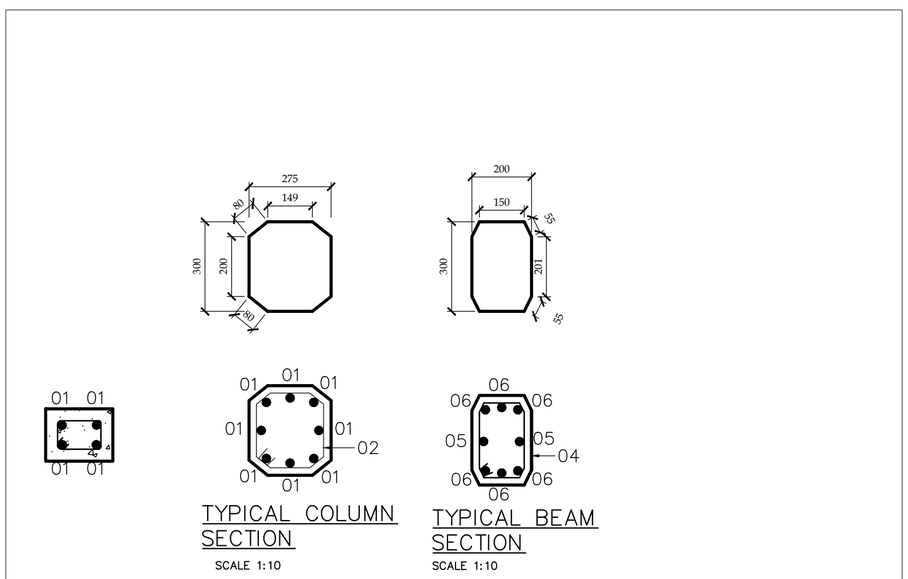
JOB No. 02 - 2020 | DRG No. 12



R.C GUARD RAIL
ELEVATION
SCALE 1:50



GUARDRAIL DETAILS
(1:10)



TYPICAL COLUMN SECTION
SCALE 1:10

TYPICAL BEAM SECTION
SCALE 1:10

TYPICAL RC GUARD RAIL BEAM & COLUMN DETAIL

NOTES

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REVISIONS

Date	Suffix	Descriptions

REPUBLIC OF KENYA

COUNTY GOVERNMENT OF BOMET

PROJECT

CONSTRUCTION OF NARC BRIDGE IN CHEBUNYO-SIGOR WARDS

TITLE

GUARDRAILS: CROSS-SECTION, REINFORCEMENT AND ELEVATION DETAILS

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info@wastructconsultants.co.ke

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Checked	K.Ng'eno.	Date	January, 2020
Approved		Date	January, 2020

JOB No. 02 - 2020

DRG No. 13