

COUNTY GOVERNMENT OF ELGEYO MARAKET



CONSULTANCY SERVICES FOR INFRASTRUCTURE UPGRADING PLANS, DETAILED ENGINEERING DESIGNS AND PREPARATION OF PROCUREMENT DOCUMENTS AND CONSTRUCTION SUPERVISION OF INFRASTRUCTURE IMPROVEMENT WORKS IN SELECTED INFORMAL SETTLEMENTS IN THE COUNTIES OF ELGEYO MARAKET, ELGEYO MARAKWET AND TRANS NZOIA (9NO.SETTLEMENTS) (ONE CONTRACT).

SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2) ELGEYO MARAKWET COUNTY

LOT 1:CHEPTONGEI& CHEBIEMIT INFORMAL SETTLEMENTS IN ELGEYO MARAKWET
COUNTY-ROADS, DRAINAGE, SEWERAGE AND STREET LIGHTING WORKS

LOT 1:BOOK OF DRAWINGS

DECEMBER 2023

THE EMPLOYER: DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT;
COUNTY GOVERNMENT OF
ELGEYO MARAKET
P.O. BOX 220-30700
ITEN, KENYA

THE NATIONAL COORDINATOR: KENYA INFORMAL SETTLEMENTS
IMPROVEMENT PROJECT (KISIP)
P.O. BOX 30119-00100
NAIROBI
KENYA

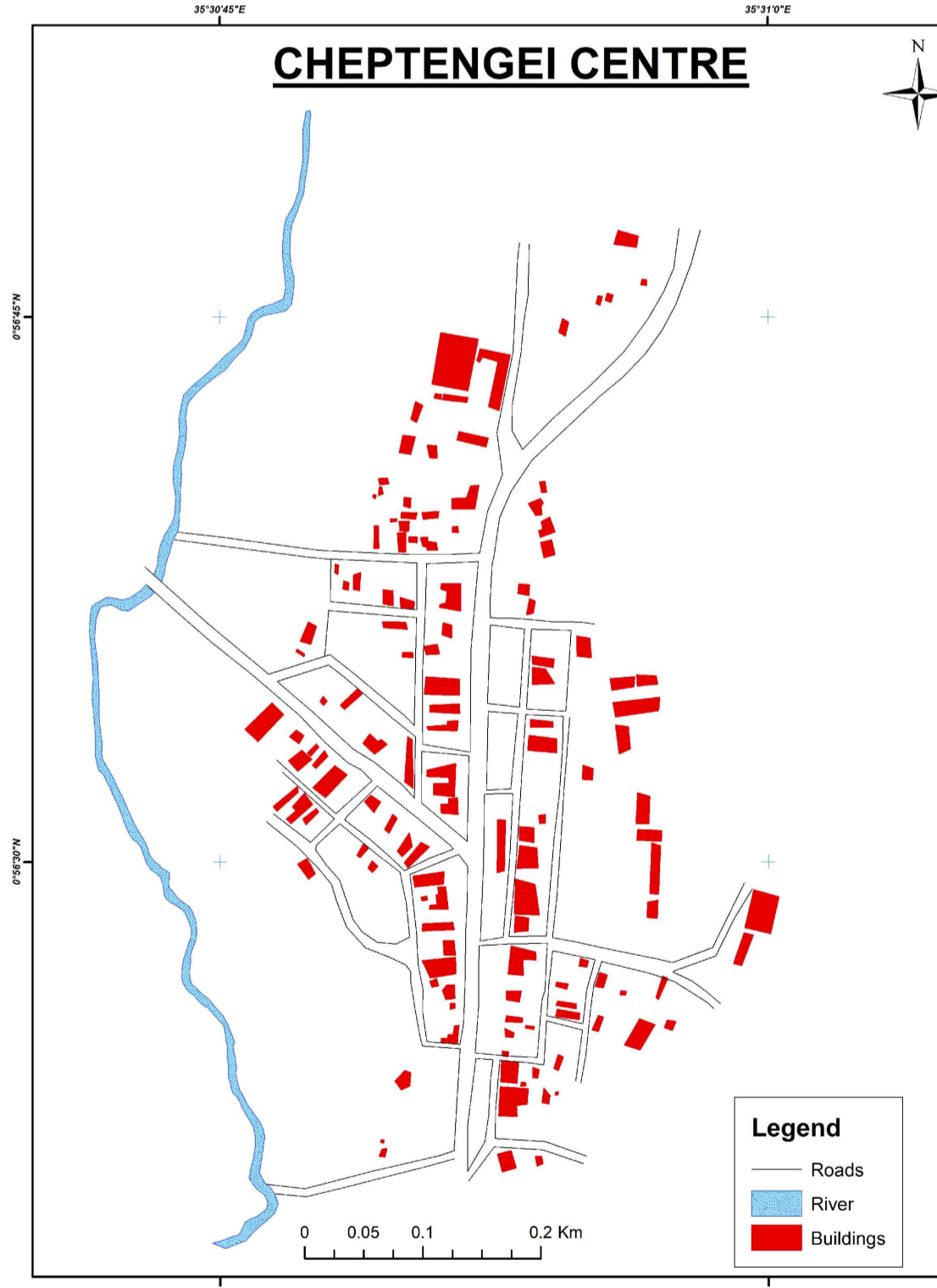
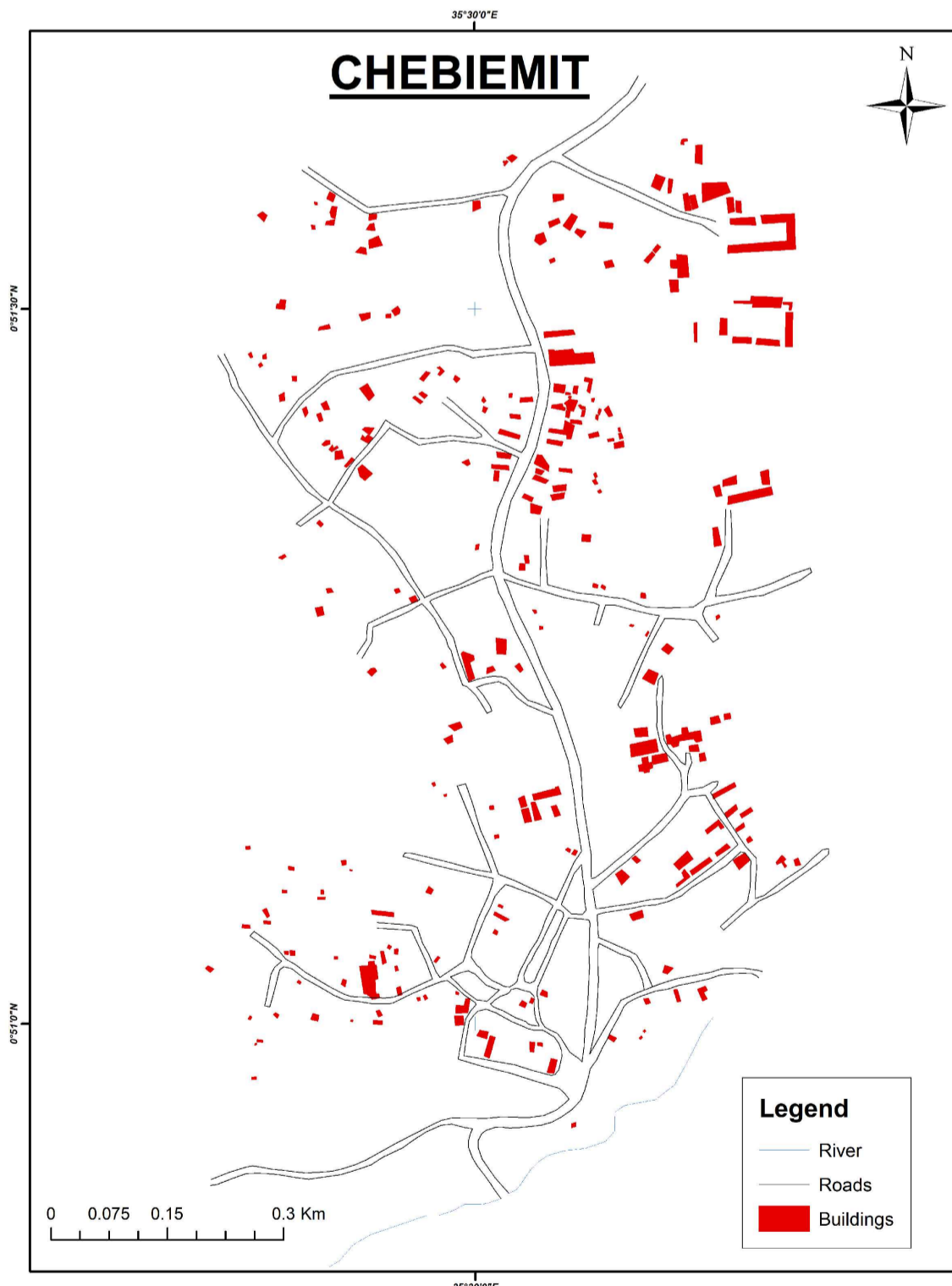
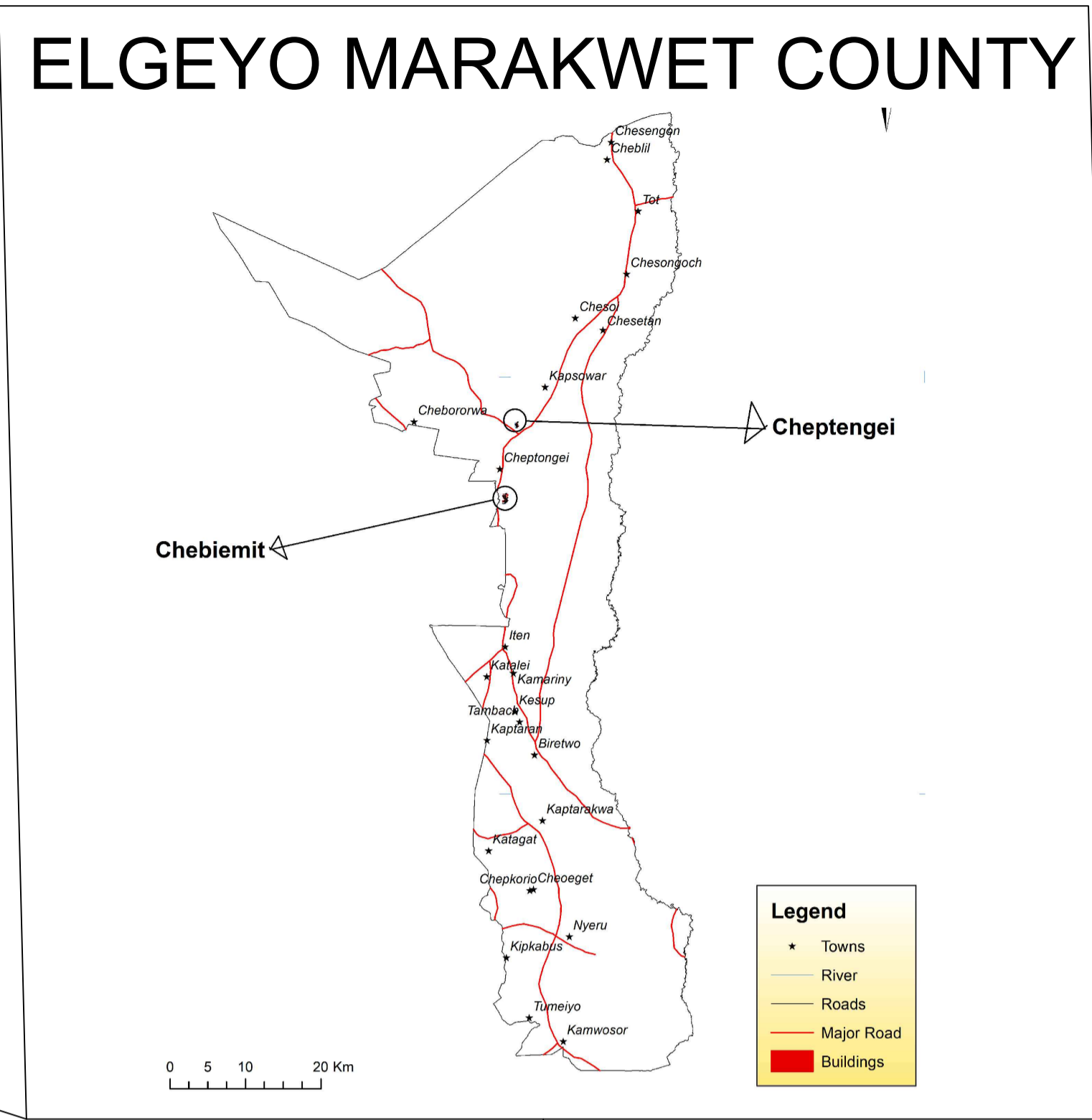
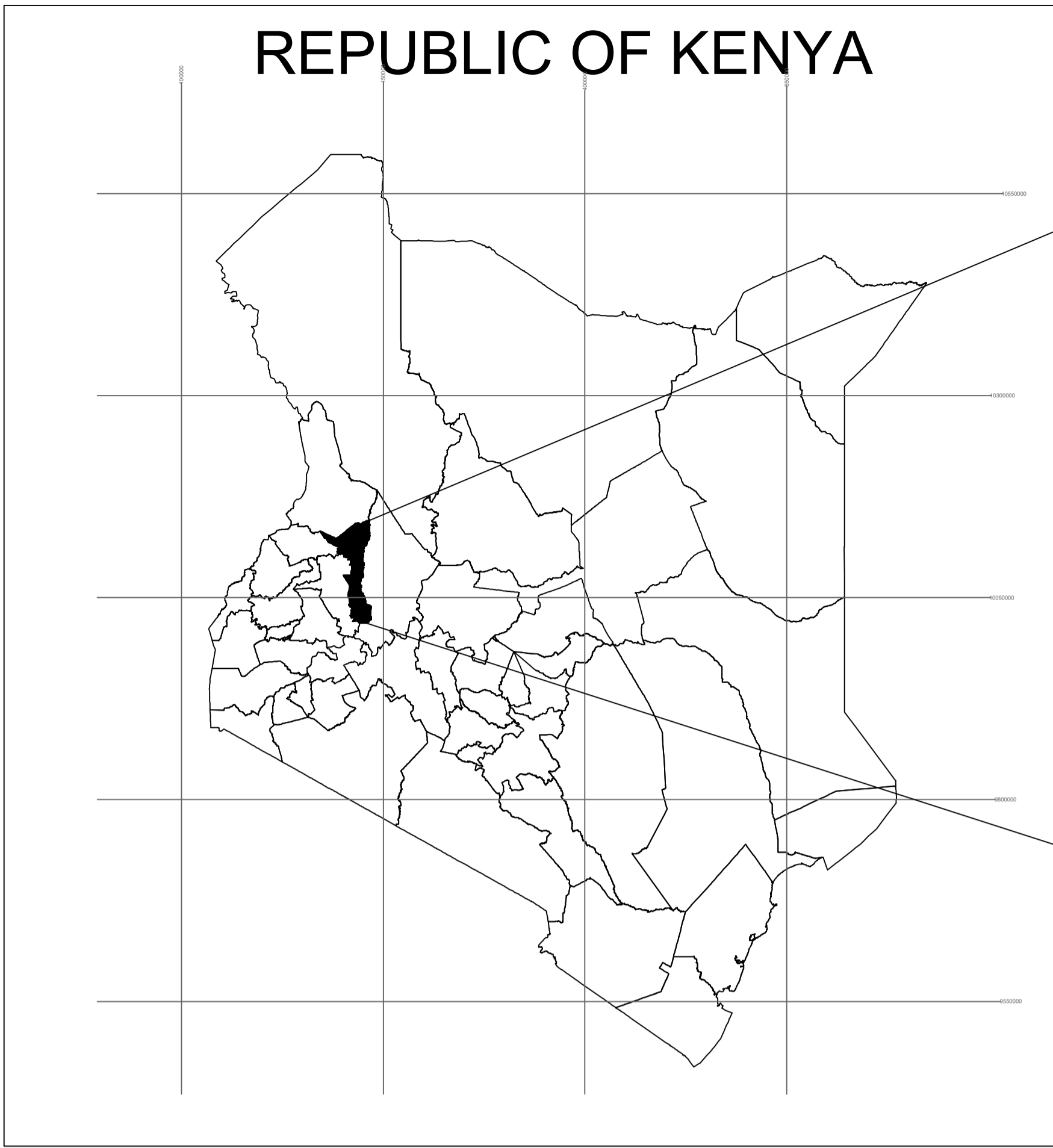
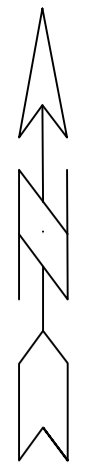
Country: REPUBLIC OF KENYA
Loan No. /Credit No. / Grant No.:
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DRAWING INDEX		
DRAWING NO.	DESCRIPTION/SHEET TITLE	SHEET NO.
KISIP-SAL/ELG/LM/1	PROJECT LOCATION MAP	1
KISIP-SAL/ELG/CHEP/LM/01	CHEPTONGEI SETTLEMENT GENERAL LAYOUT	2
KISIP-SAL/ELG/CHEP/LM/02	CHEPTONGEI SETTLEMENT COMBINED LAYOUTS	3
KISIP-SAL/ELG/CHEP/TC/01	CHEPTONGEI SETTLEMENT TYPICAL CROSS SECTION	4
KISIP-SAL/ELG/CHEP/TC/02	CHEPTONGEI SETTLEMENT TYPICAL CROSS SECTION	5
KISIP-SAL/ELG/CHEP/P&P/01	CHEPTILE CHEMWENO ROAD PROFILE	6
KISIP-SAL/ELG/CHEP/P&P/01-1	CHEPTILE CHEMWENO ROAD PROFILE	7
KISIP-SAL/ELG/CHEP/P&P/02	CATHOLIC-RAMA ROAD PROFILE	8
KISIP-SAL/ELG/CHEP/P&P/02-1	CATHOLIC-RAMA ROAD PROFILE	9
KISIP-SAL/ELG/CHEP/P&P/03	KIRIAS-HEALTH CENTER ROAD PROFILE	10
KISIP-SAL/ELG/CHEP/P&P/04	NDIEMA-PETROL STATION ROAD PROFILE	11
KISIP-SAL/ELG/CHEP/P&P/05	LOKALE-CHEBAIMO-PETROL STATION PROFILE	12
KISIP-SAL/ELG/CHEP/P&P/06	LOKALE-CHEBAIMO-PETROL STATION & HIGHWAY- SECONDARY SCHOOL ROAD PROFILE	13
KISIP-SAL/ELG/CHEP/P&P/07	OUTREACH-HIGHWAY & NDIEMA-FIELS-AIC ROAD PROFILE	14
KISIP-SAL/ELG/CHEB/GL/01	CHEBIEMIT SETTLEMENT GENERAL LAYOUT	15
KISIP-SAL/ELG/CHEB/GL/02	CHEBIEMIT SETTLEMENT COMBINED GENERAL LAYOUT	16
KISIP-SAL/ELG/CHEB/TC/01	CHEBIEMIT SETTLEMENT TYPICAL ROAD CROSS SECTIONS	17
KISIP-SAL/ELG/CHEB/P&P/01	BELEEK SHOP-MAMGAA-CHESUMET PETROL STATION- TARMAC ROAD PROFILE	18
KISIP-SAL/ELG/CHEB/P&P/03	KAPSILOT SOCHON-AP LINE-LINETEIKUCHU ROAD PROFILE	19
KISIP-SAL/ELG/CHEB/P&P/03-1	KAPSILOT SOCHON-AP LINE-LINETEIKUCHU ROAD PROFILE	20
KISIP-SAL/ELG/CHEB/P&P/03-2	KAPSILOT SOCHON-AP LINE-LINETEIKUCHU ROAD PROFILE	21
KISIP-SAL/ELG/CHEB/P&P/04	HOSPITAL-CATHOLIC-MSAFIRI ROAD PROFILE	22
KISIP-SAL/ELG/SD/01	TYPICAL BUS BAY DETAILS	23
KISIP-SAL/ELG/SD/02	TYPICAL MARKER POST DETAILS	24
KISIP-SAL/ELG/SD/03	JUNCTION DETAILS	25
KISIP-SAL/ELG/SD/04	TYPICAL SAFETY DETAILS	26

DRAWING INDEX		
DRAWING NO.	DESCRIPTION/SHEET TITLE	SHEET NO.
KISIP-SAL/ELG/SD/05	TYPICAL TRAFFIC SIGN FIXING DETAILS	27
KISIP-SAL/ELG/SD/06	CHANNEL DETAILS	28
KISIP-SAL/ELG/SD/07	TYPICAL SERVICE DUCT DETAILS	29
KISIP-SAL/ELG/SD/08	SIGNAGE FOR DEVIATION	30
KISIP-SAL/ELG/SD/09	ROAD SIGNAGE	31
KISIP-SAL/ELG/SD/10	STORMWATER SLOTTED DRAIN & SUBSOIL DRAIN DETAILS	32
KISIP-SAL/ELG/SD/11	SINGLE CELL PIPE CULVERT DETAILS	33
KISIP-SAL/ELG/SD/12	MULTIPLE CELL PIPE CULVERT DETAILS	34
KISIP-SAL/ELG/CHEP/GL/01	CHEBIEMIT STREET LIGHTING LAYOUT	35
KISIP-SAL/ELG/CHEP/GL/01	CHEPTONGEI STREET LIGHTING LAYOUT	36
KISIP-SAL/ELG/LM/P&P/01	30M HIGH MAST POLE DETAILS	37
KISIP-SAL/ELG/LM/P&P/02	SCHEMATIC WIRING DIAGRAM	38
KISIP-SAL/EL/01	PROJECT PUBLICITY BOARD	39

REPUBLIC OF KENYA

ELGEYO MARAKWET COUNTY



CLIENT DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT; COUNTY GOVERNMENT OF ELGEYO MARAKWET	PROJECT TITLE SECOND KENYA INFORMAL SETTLEMENT IMPROVEMENT PROJECT (KISIP 2) ELGEYO MARAKWET COUNTY	CONSULTANTS SOBOCON ASSOCIATES LIMITED 	REVISIONS – 0			DRAWING TITLE: ELGEYO MARAKWET COUNTY ROADS, DRAINAGE, WATER SUPPLY, SEWERAGE & FLOOD LIGHTS WORKS	SHEET TITLE: LOCATION MAP		DESIGN BY: R.O
			NO.	DATE	DESCRIPTION		DWG. NO: KISIP-SAL/ELG/LM/1	DRAWN BY: S.M	
						SHEET NO: 1 OF 39	SCALE: (A3)	CHECKED BY: J.O	
							STAGE: DETAILED DRAWINGS	APPROVED BY: B.O	
							DATE: DECEMBER 2023		

ROADS AND DRAINAGE



PROPOSED IMPROVEMENT PROJECT FOR CHEPTONGEI SETTLEMENT

Legend CHEPTONGEI LOT 1

- ⊗ SEWER
- △ CONTROL POINT
- EXISTING SEWER LINE
- ROAD CENTRE LINE
- PIPE CULVERT
- PROPOSED R1 ROAD TYPE
- PROPOSED 2 ROAD TYPE
- PROPOSED R3 ROAD TYPE
- PROPOSED STORM WATER DRAIN

30 NEW 30M HIGH MAST FLOODLIGHT

30 EXISTING 30M HIGH MAST FLOODLIGHT

CHEPTONGEI LOT 2

LOT 2 PROPOSED ROADS

CLIENT

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT; COUNTY GOVERNMENT OF ELGEYO MARAKWET

PROJECT TITLE

SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2) ELGEYO MARAKWET COUNTY

CONSULTANTS

SOBOCON ASSOCIATES LIMITED



REVISIONS

NO.	DATE	DESCRIPTION

DRAWING TITLE:

CHEPTONGEI- ROADS & DRAINAGE PLAN & PROFILE DRAWINGS

SHEET TITLE: CHEPTONGEI SETTLEMENT GEOREFERENCED LAYOUT

DWG. NO.: KISIP-SAL/ELG/CHEP/P&P/01
SHEET NO: 2

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DATE: DECEMBER 2023

DESIGN BY: R.O










DRAWN BY: S.M

CHECKED BY: J.O

APPROVED BY: B.O

PROPOSED IMPROVEMENT PROJECT FOR
CHEPTONGEI SETTLEMENT

Legend
CHEPTONGEI LOT 1

-  SEWER
-  CONTROL POINT
-  EXISTING SEWER LINE
-  ROAD CENTRE LINE
-  PIPE CULVERT
-  PROPOSED R1 ROAD TYPE
-  PROPOSED 2 ROAD TYPE
-  PROPOSED R3 ROAD TYPE
-  PROPOSED STORM WATER DRAIN

 NEW 30M HIGH MAST FLOODLIGHT

 EXISTING 30M HIGH MAST FLOODLIGHT

CHEPTONGEI LOT 2

 LOT 2 PROPOSED ROADS

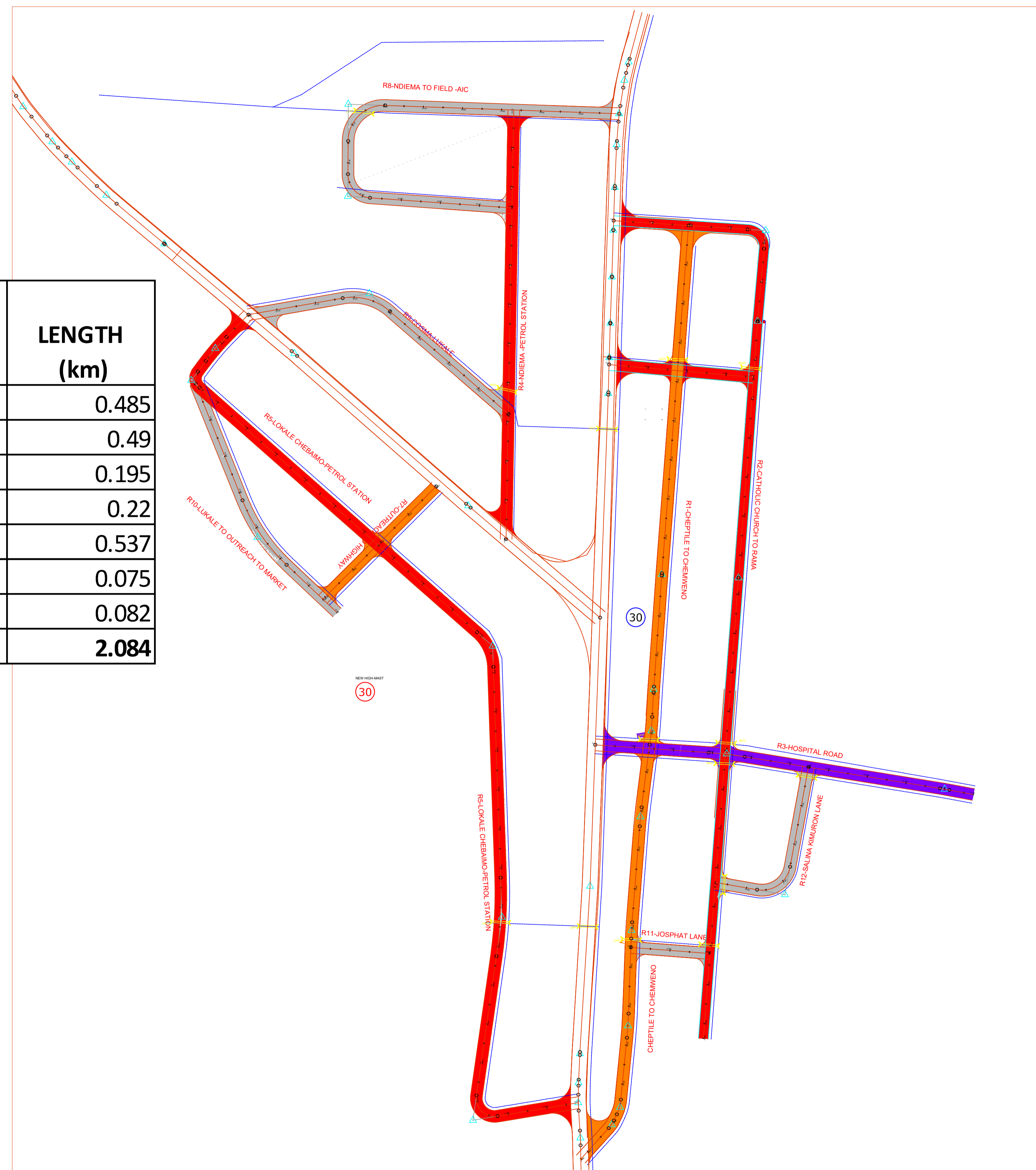
CHEPTONGEI LOT 1

ROAD NO	DESCRIPTION	LENGTH (km)
1	Cheptile to chemweno	0.485
2	Catholic Church to Rama	0.49
3	kirias to health centre	0.195
4	Ndiema to petrol station	0.22
5	Lokale chebaimo to petrol station	0.537
6	highway to secondary.	0.075
7	outreach to main highway	0.082
TOTAL		2.084

ADDITIONAL INVESTMENTS FOR CHEPTONGEI LOT 1	
HIGH MASTS(NEW)	1NO.
HIGH MAST UPGRADE	1NO.
STREET LIGHTING	
	12NO.

CHEPTONGEI LOT 2

8	Ndiema to field to Aic	0.257
9	cosma to lukale	0.155
10	Lokale to outreach to market	0.14
11	Josphat Lane	0.04
12	Salina Kimuron Lane	0.1



CLIENT

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT; COUNTY GOVERNMENT OF ELGEYO MARAKWET

PROJECT TITLE

SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2) ELGEYO MARAKWET COUNTY

CONSULTANTS

SOBOCON ASSOCIATES LIMITED



REVISIONS

NO.	DATE	DESCRIPTION

DRAWING TITLE:

CHEPTONGEI- ROADS & DRAINAGE PLAN & PROFILE DRAWINGS

SHEET TITLE: CHEPTONGEI SETTLEMENT GENERAL LAYOUT

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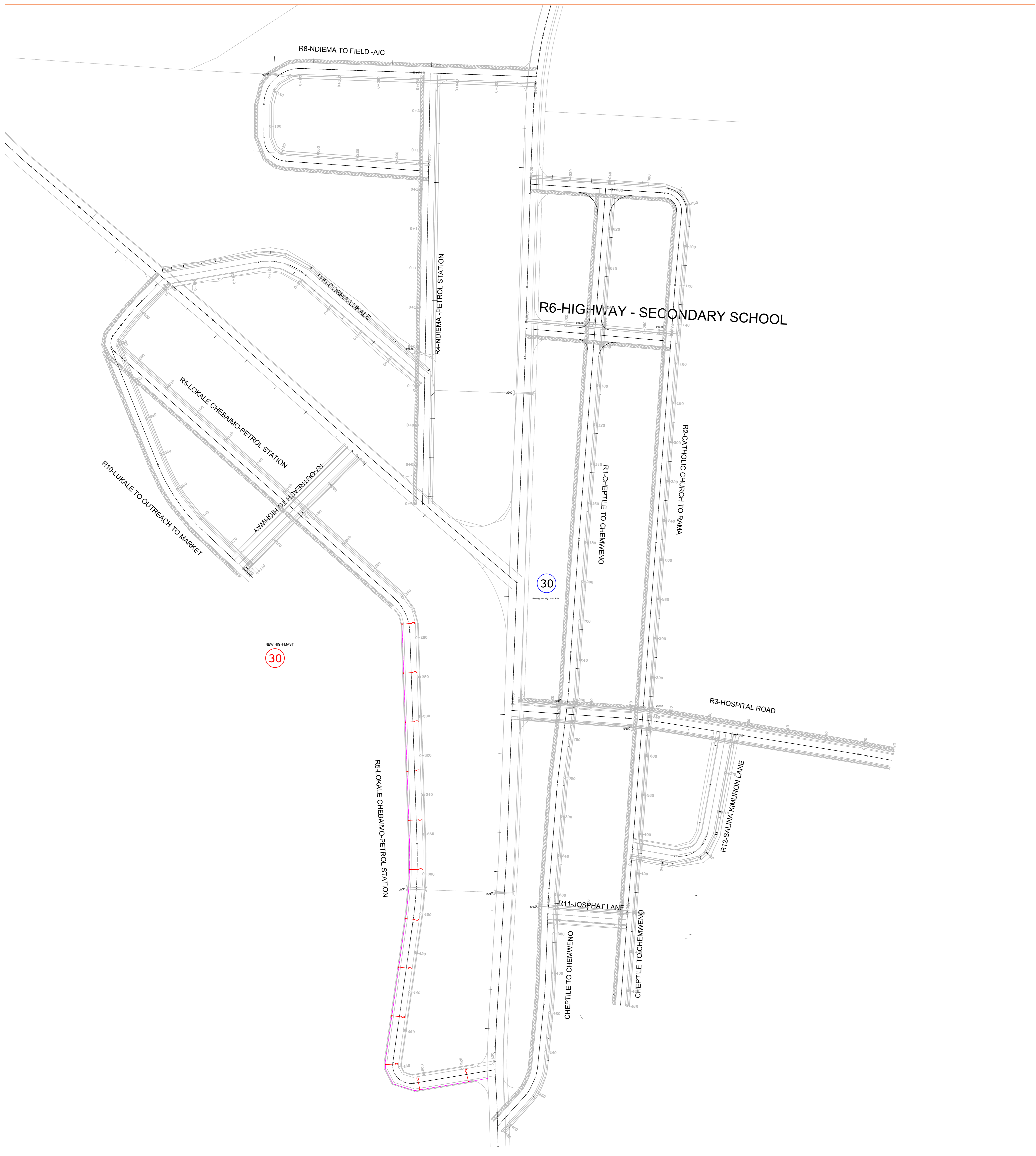
STAGE: DETAILED DESIGN
DATE: DECEMBER 2023

DESIGN BY: R.O

DRAWN BY: S.M

CHECKED BY: J.O

APPROVED BY: B.O



- LEGEND: -**
- PROPOSED WATER MAIN
 - EXISTING WATER PIPELINE
 - PROPOSED ROADS
 - EXISTING TREE
 - EXISTING FENCE / WALL
 - EXISTING SEWER LINE
 - ROAD CENTRE LINE
 - PIPE CULVERT
 - PROPOSED STORM WATER DRAIN
 - NORTH

- 8m high street lighting pole with single-arm bracket and an integrated solar LED luminaire - spaced 25m apart
- Existing 30M High Mast Pole
- New 30M High Mast Pole

CLIENT
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT; COUNTY GOVERNMENT OF ELGEYO MARAKWET

PROJECT TITLE
SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2) ELGEYO MARAKWET COUNTY

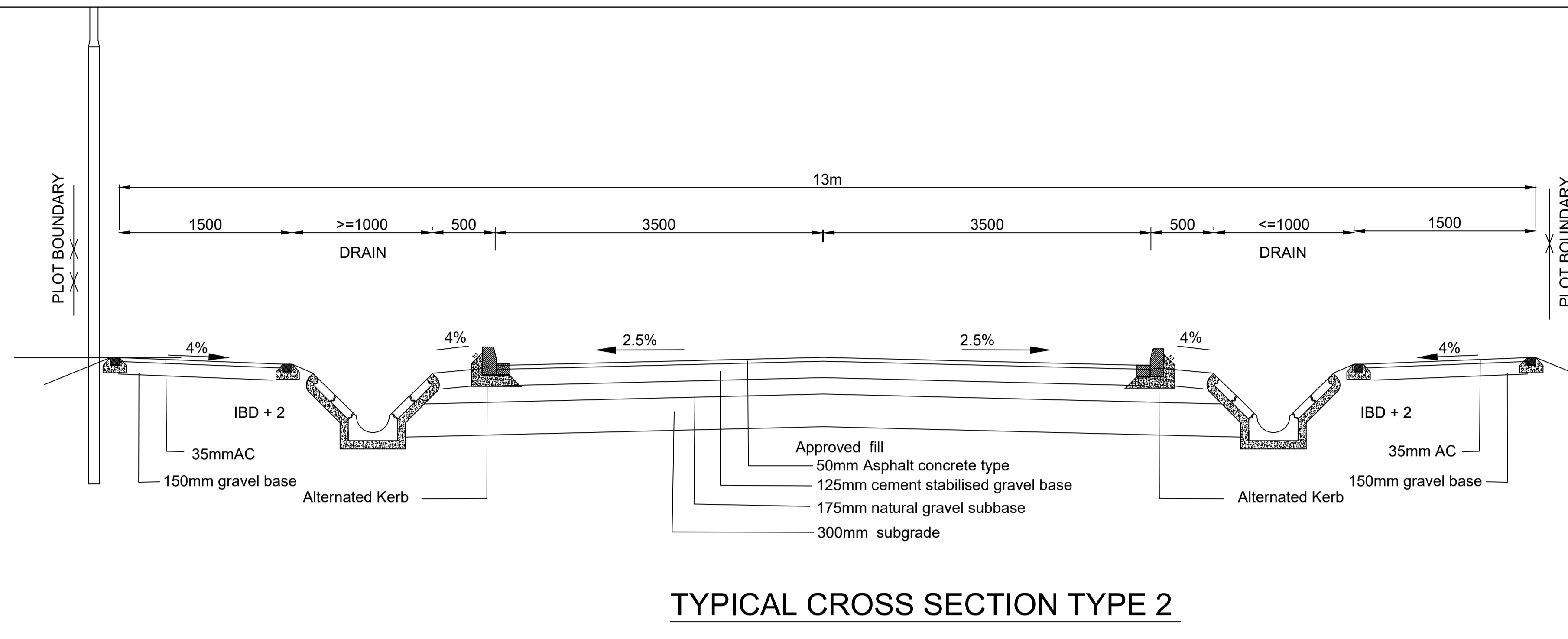
CONSULTANTS
SOBOCON ASSOCIATES LIMITED

REVISIONS - 0

NO.	DATE	DESCRIPTION

DRAWING TITLE:
CHEPTONGEI:-COMBINED LAYOUTS

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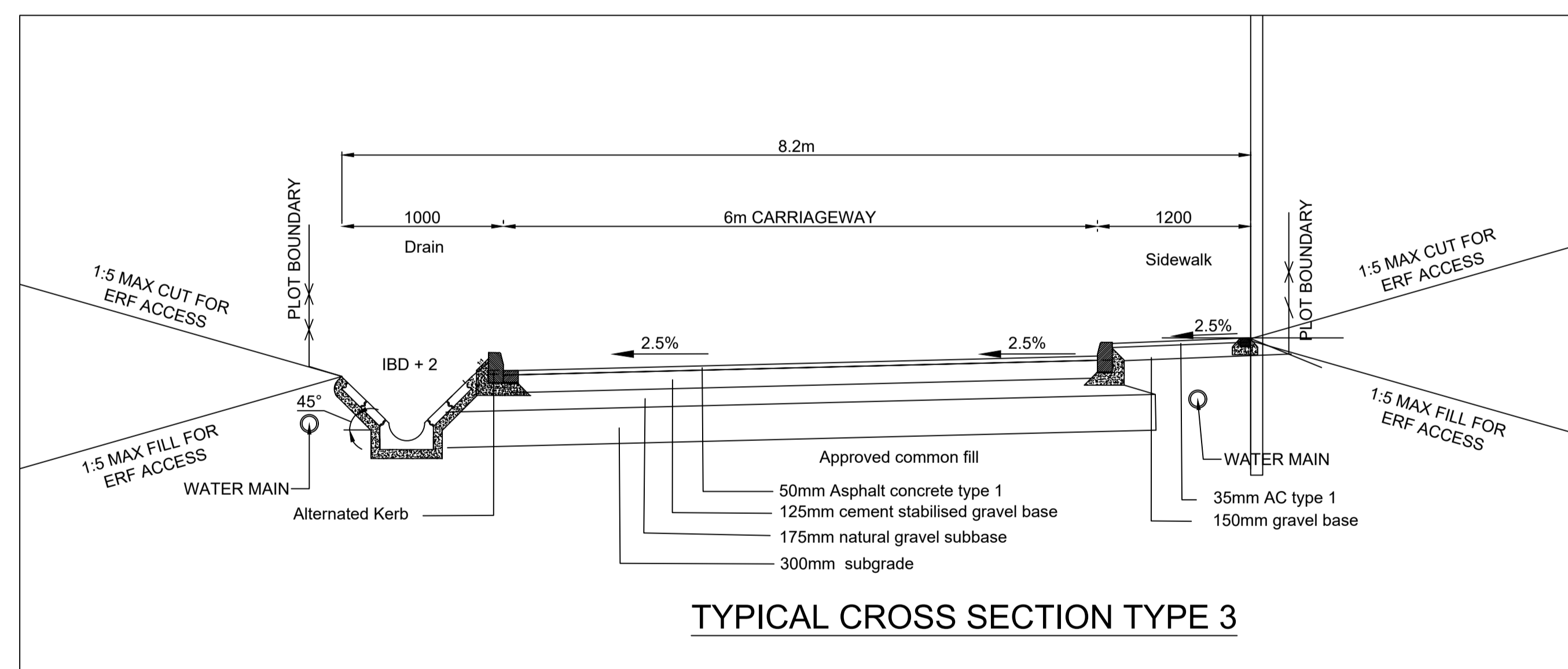
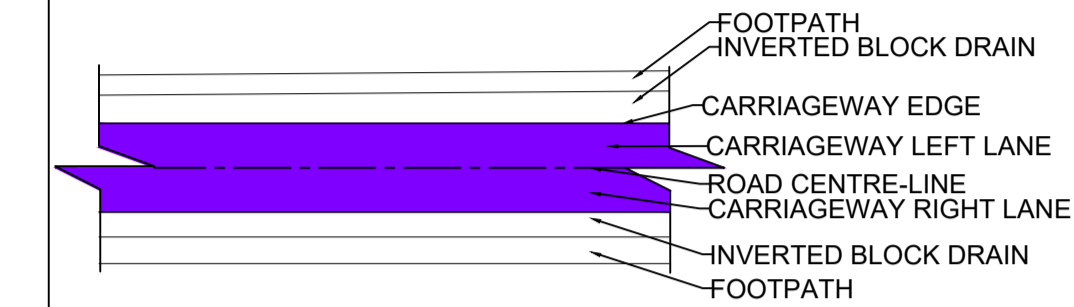


DESCRIPTION

ROAD NAME

1. KIRIAS -HEALTH CENTER ROAD

TWO WAY SINGLE CARRIAGEWAY, TWO LANES EACH
 3.5METRES
 1.5METRES FOOTPATH (BOTH SIDES)
 1.0METRES IBD (BOTH SIDES)

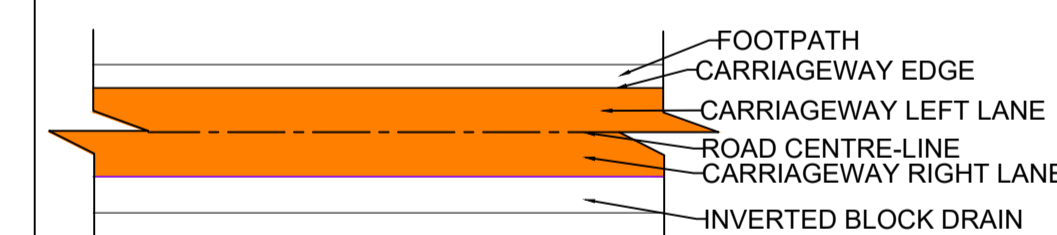


DESCRIPTION

ROAD NAME

1. CHEPTILE-CHEMWENO ROAD
2. OUTREACH-MAIN HIGHWAY ROAD

TWO WAY SINGLE CARRIAGEWAY, TWO LANES EACH
 3.0METRES
 1.2METRES FOOTPATH
 1.0 METRES IBD



CLIENT
 DEPARTMENT OF HOUSING
 AND URBAN DEVELOPMENT,
 COUNTY GOVERNMENT OF
 ELGEYO MARAKWET

PROJECT TITLE
 SECOND KENYA
 INFORMAL SETTLEMENTS
 IMPROVEMENT PROJECT
 (KISIP 2)
 ELGEYO MARAKWET
 COUNTY

CONSULTANTS
 SOBOCON ASSOCIATES
 LIMITED

SOBOCON ASSOCIATES LIMITED
 Consulting Engineers & Project Managers

REVISIONS-0

NO.	DATE	DESCRIPTION

DRAWING TITLE:
 CEPTONGEI SETTLEMENT TYPICAL
 ROAD CROSS SECTIONS

SHEET TITLE: TYPICAL ROAD CROSS SECTIONS &
 DESCRIPTION

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SHEET NO: 4 OF 39

SCALE: (A1)
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STAGE: DETAILED DRAWINGS

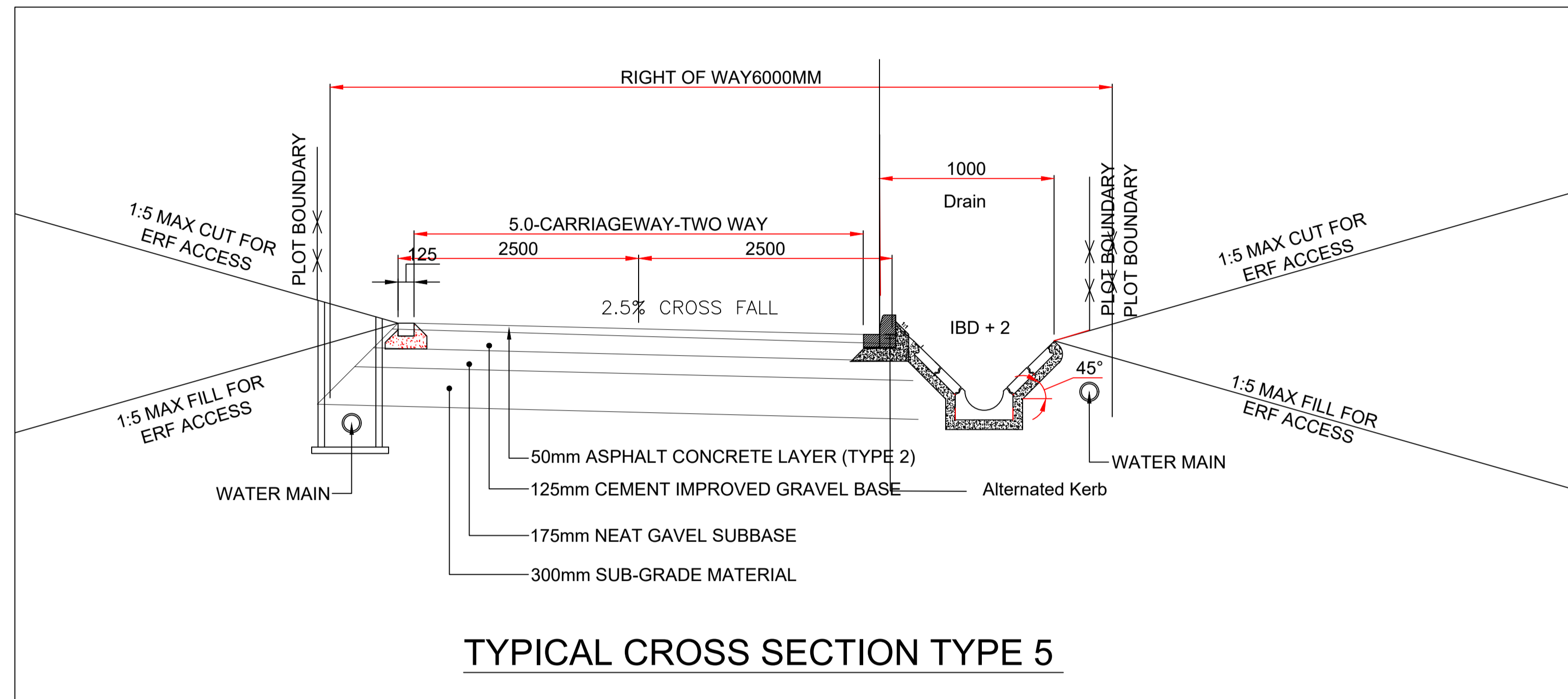
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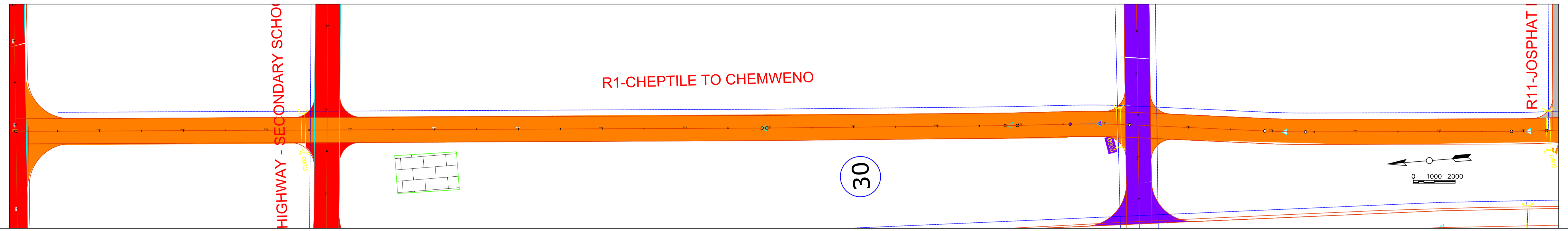
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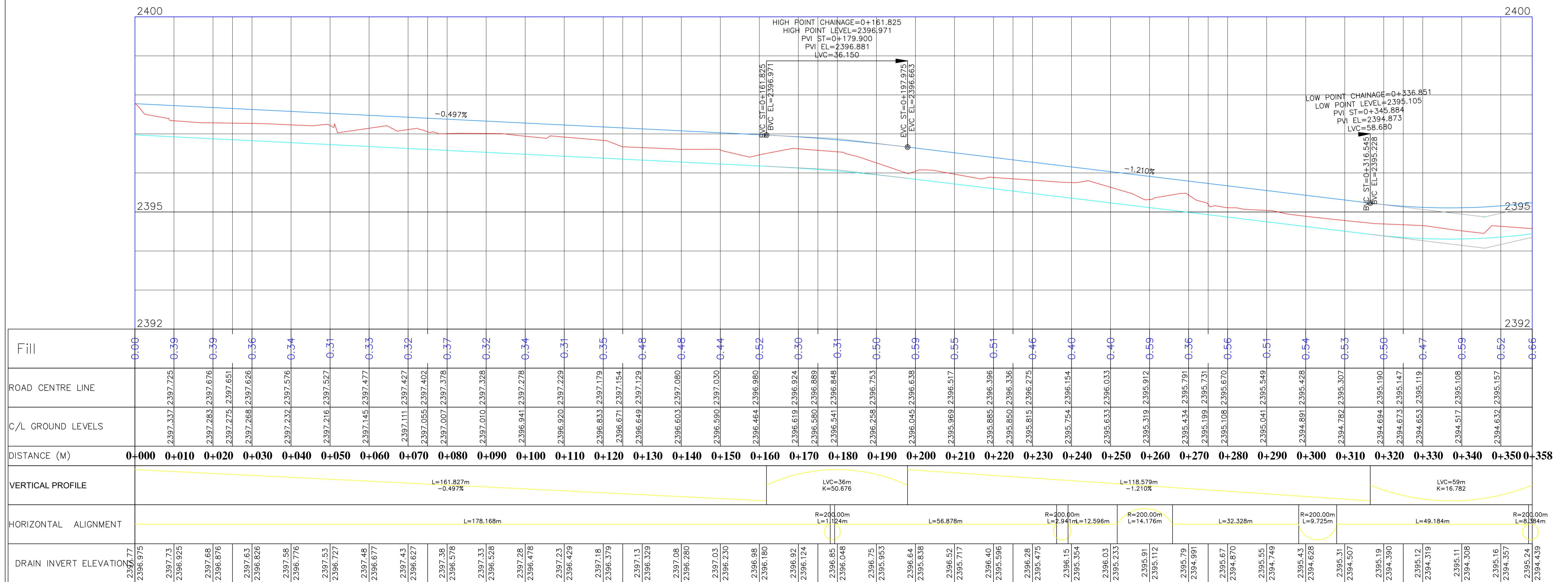


DESCRIPTION	ROAD NAME
<p>TWO WAY SINGLE CARRIAGE WAY, TWO LANES EACH 2.5M 1.0 METERS SLOTTED INVERTED BLOCK DRAIN</p>	<ol style="list-style-type: none"> 1. CATHOLIC-RAMA ROAD 2. NDIEMA-PETROL STATION 3. LOKALE-CHEMWAIMO ROAD 4. HIGHWAY-MAIN HIGHWAY ROAD


CLIENT DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT, COUNTY GOVERNMENTS OF ELGEYO MARAKWET	PROJECT TITLE SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2) ELGEYO MARAKWET	CONSULTANTS SOBOCON ASSOCIATES LIMITED 	REVISIONS-0			DRAWING TITLE: CHEPTONGEI SETTLEMENT TYPICAL ROAD CROSS SECTIONS	SHEET TITLE: TYPICAL ROAD CROSS SECTIONS & DESCRIPTION		DESIGN BY: R.O
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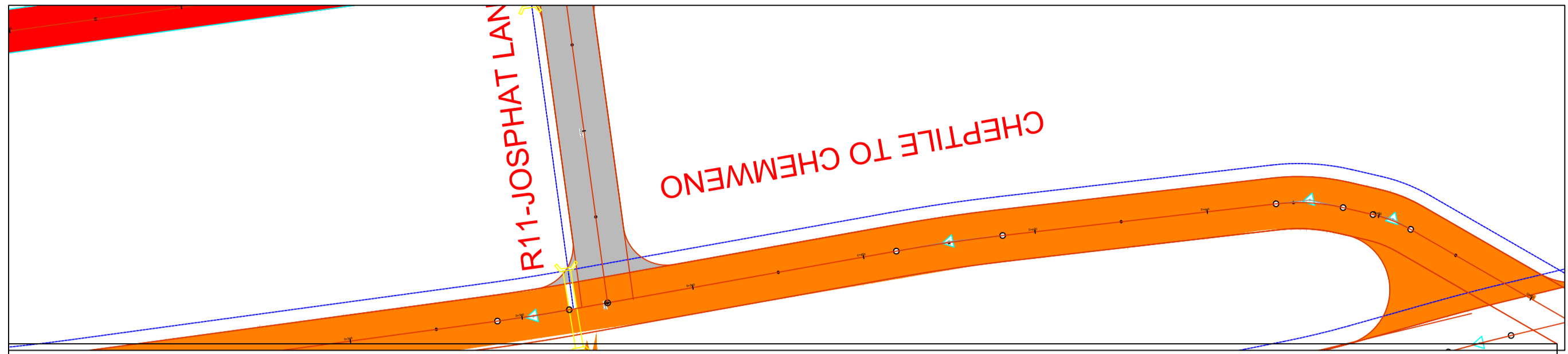


CHEPTILE TO CHEMWENO PROFILE

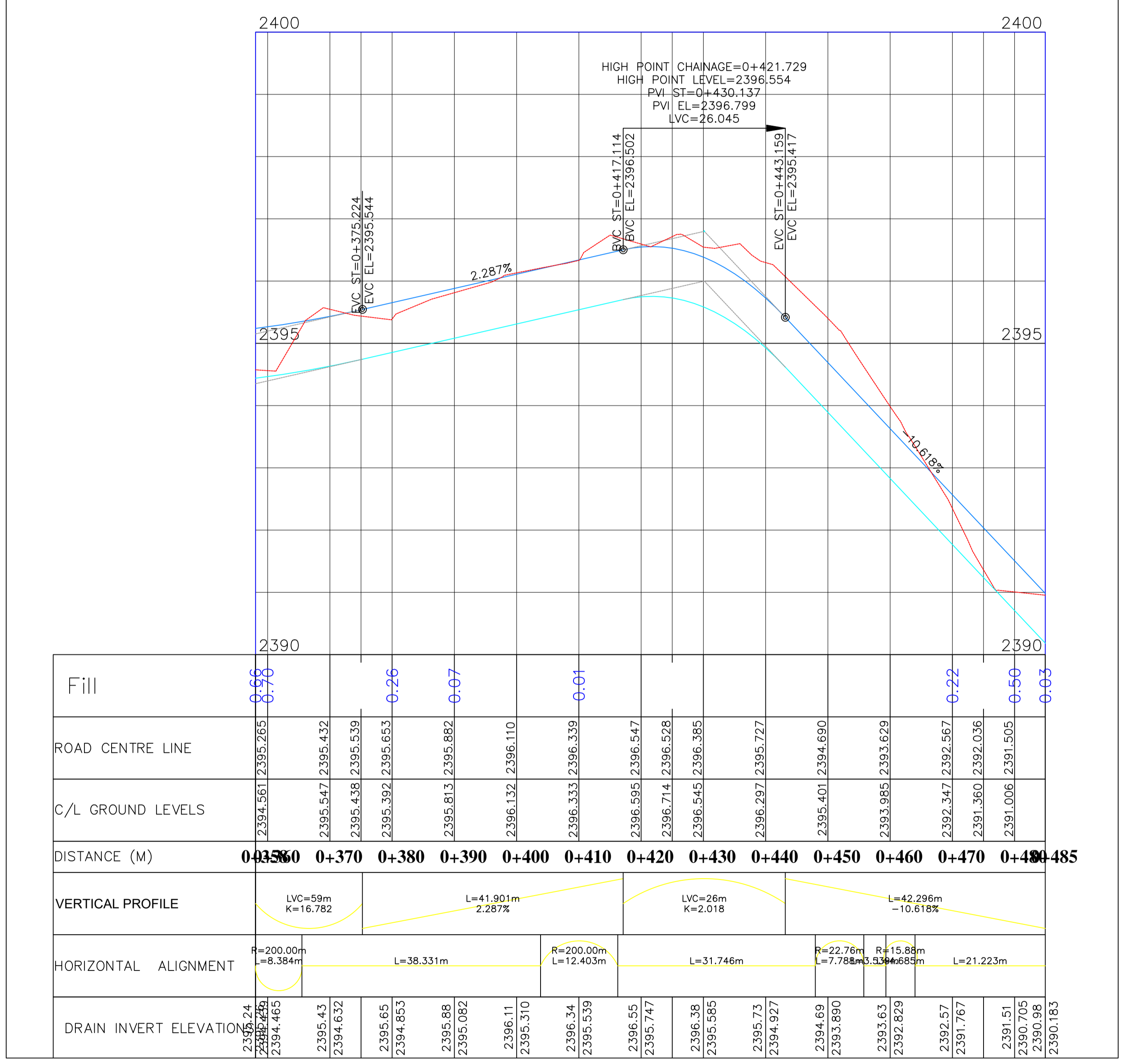


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CLIENT DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT; COUNTY GOVERNMENT OF ELGEYO MARAKWET	PROJECT TITLE SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2) ELGEYO MARAKWET COUNTY	CONSULTANTS SOBOCON ASSOCIATES LIMITED 	REVISIONS			DRAWING TITLE: CHEPTONGEI- ROADS & DRAINAGE PLAN & PROFILE DRAWINGS	SHEET TITLE: CHEPTILE-CHEMWENO PROFILE		DESIGN BY:	R.O
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					DATE:	DECEMBER 2023				



CHEPTILE TO CHEMWENO PROFILE



CLIENT
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT; COUNTY GOVERNMENT OF ELGEYO MARAKWET

PROJECT TITLE
SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2) ELGEYO MARAKWET COUNTY

CONSULTANTS
SOBOCON ASSOCIATES LIMITED

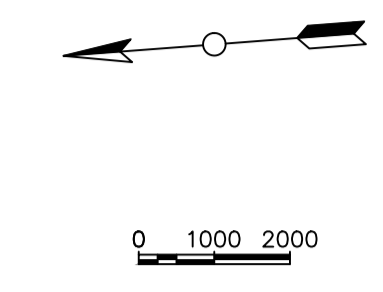
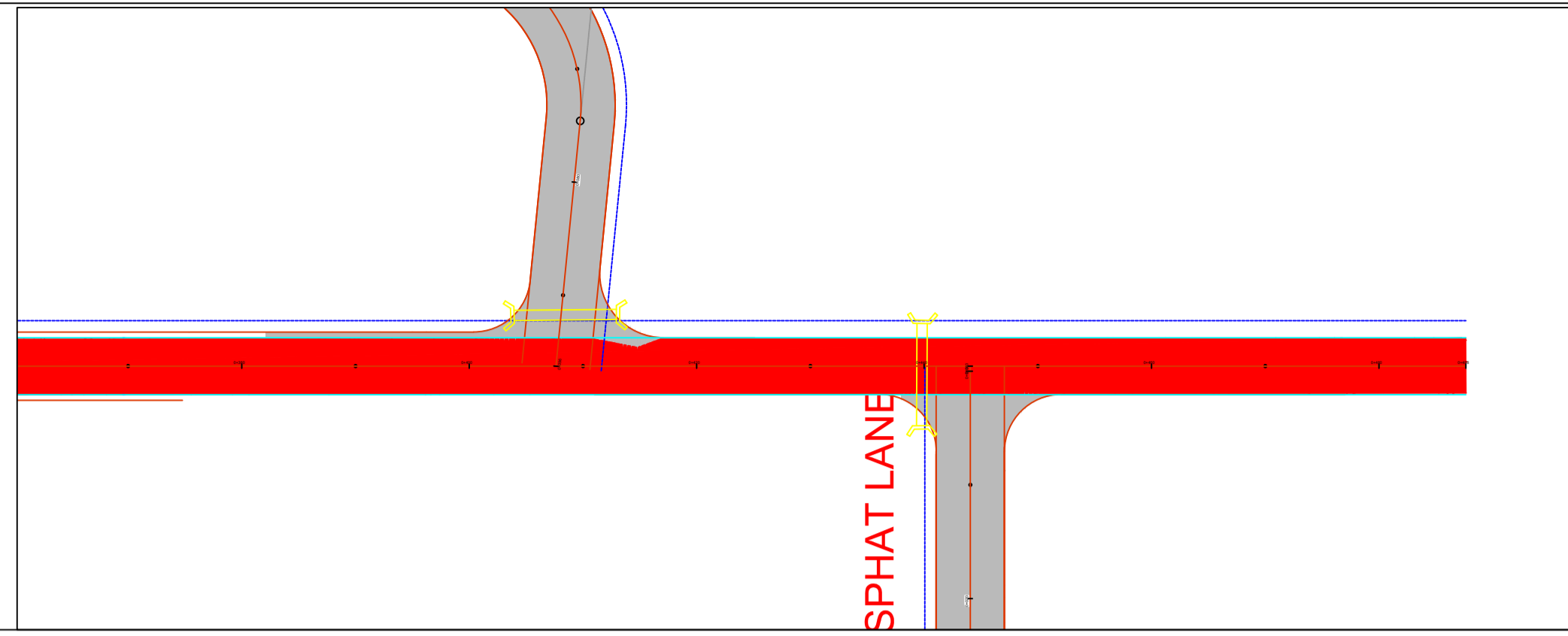
REVISIONS

NO.	DATE	DESCRIPTION

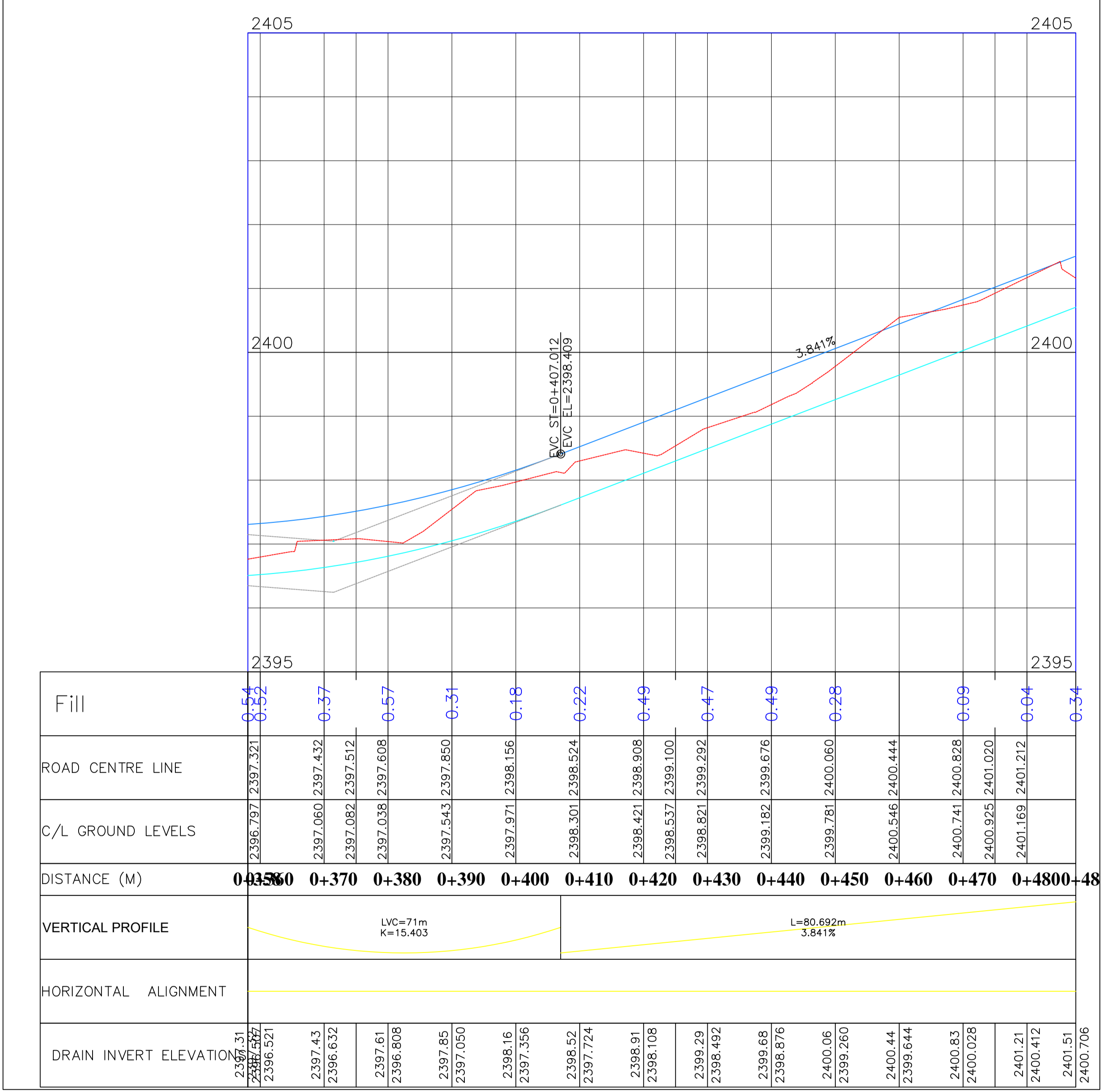
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CHEPTONGEI- ROADS & DRAINAGE PLAN & PROFILE DRAWINGS

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SHEET NO:7 OF 39
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DESIGN BY: R.O
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APPROVED BY: B.O

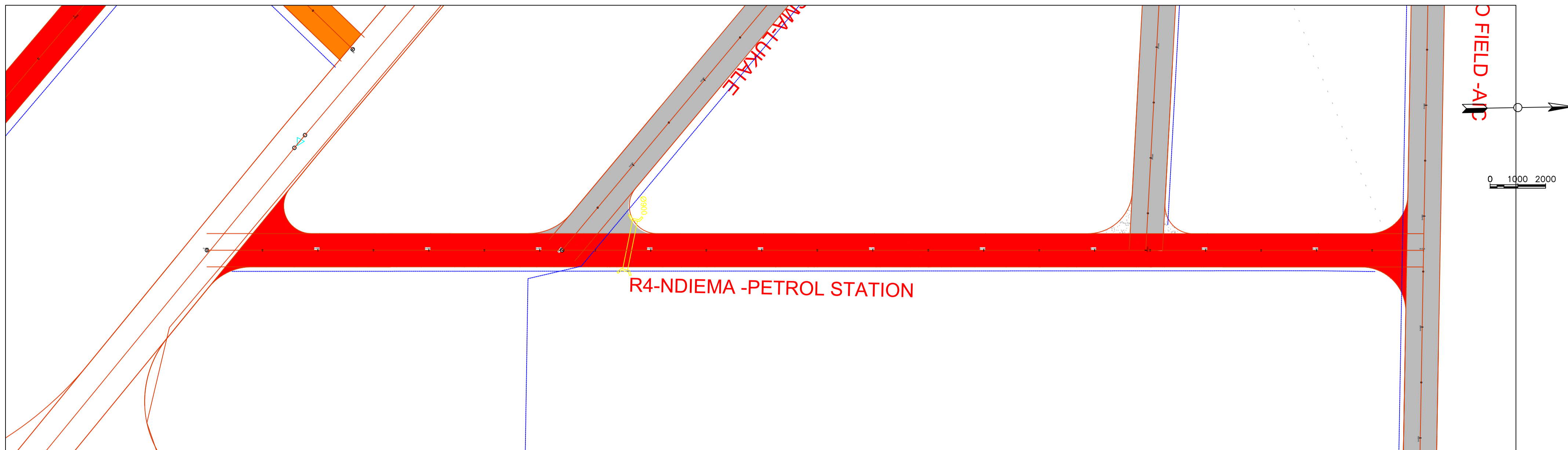


CATHOLIC TO RAMA PROFILE

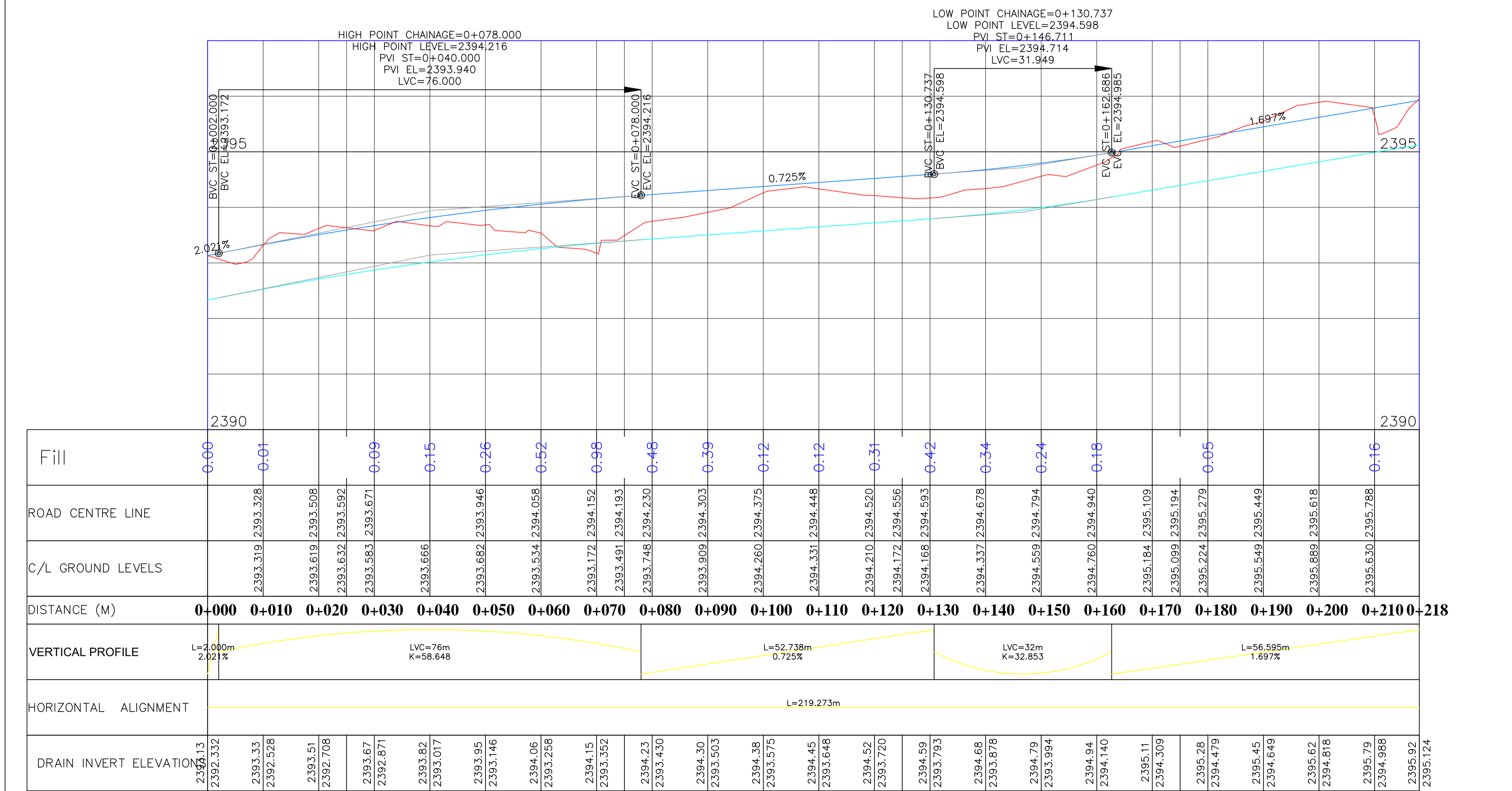


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CLIENT DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT; COUNTY GOVERNMENT OF ELGEYO MARAKWET	PROJECT TITLE SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2) ELGEYO MARAKWET COUNTY	CONSULTANTS SOBOCON ASSOCIATES LIMITED 	REVISIONS			DRAWING TITLE: CHEPTONGEI- ROADS & DRAINAGE PLAN & PROFILE DRAWINGS	SHEET TITLE: CATHOLIC-RAMA PROFILE		DESIGN BY:	R.O	
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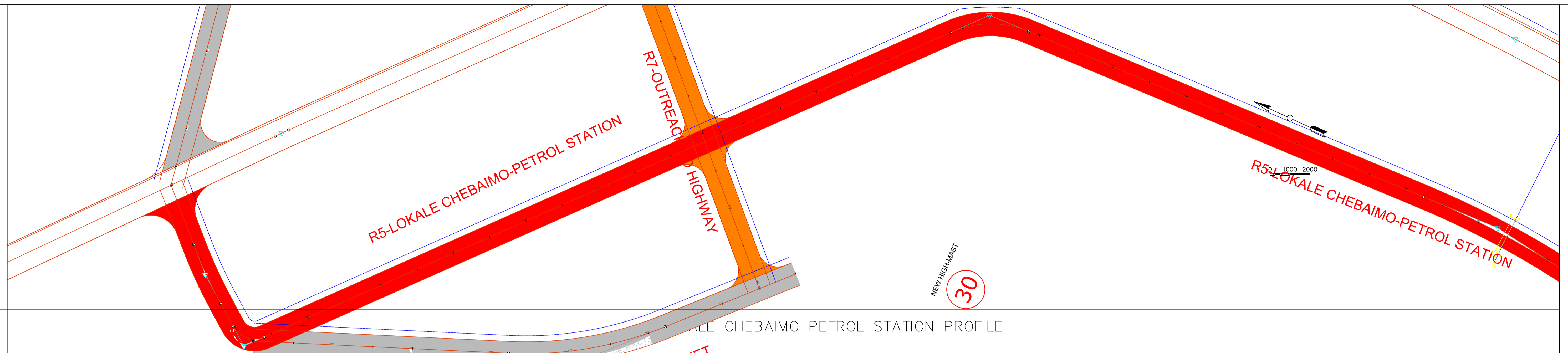


NDIEMA-PETROL STATION PROFILE

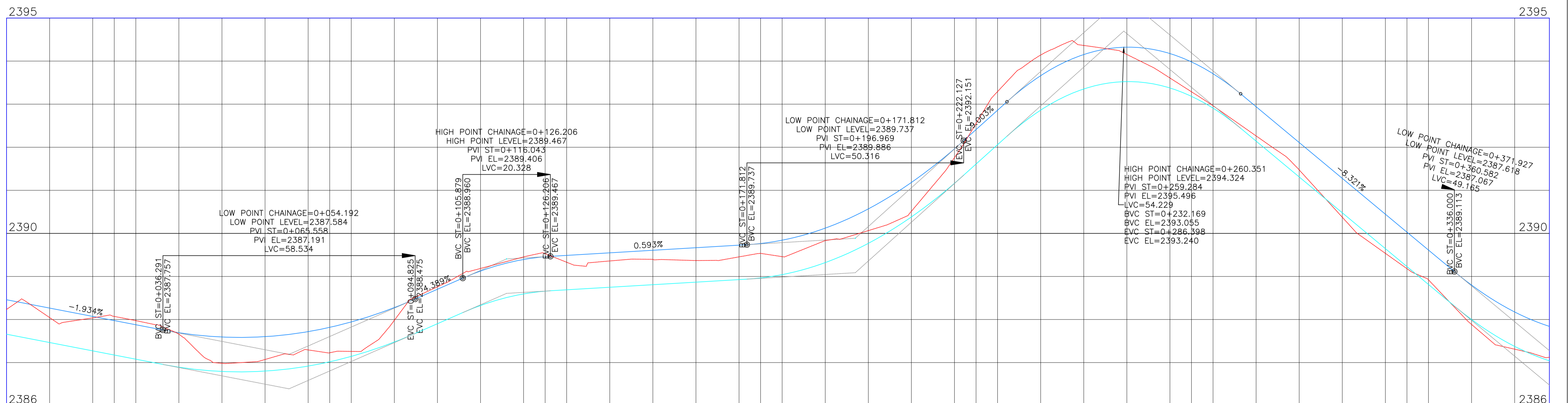


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CLIENT DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT; COUNTY GOVERNMENT OF ELGEYO MARAKWET	PROJECT TITLE SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2) ELGEYO MARAKWET COUNTY	CONSULTANTS SOBOCON ASSOCIATES LIMITED 	REVISIONS			DRAWING TITLE: CHEPTONGEI- ROADS & DRAINAGE PLAN & PROFILE DRAWINGS	SHEET TITLE: NDIEMA-PETRO STATION PROFILE		DESIGN BY:	R.O	
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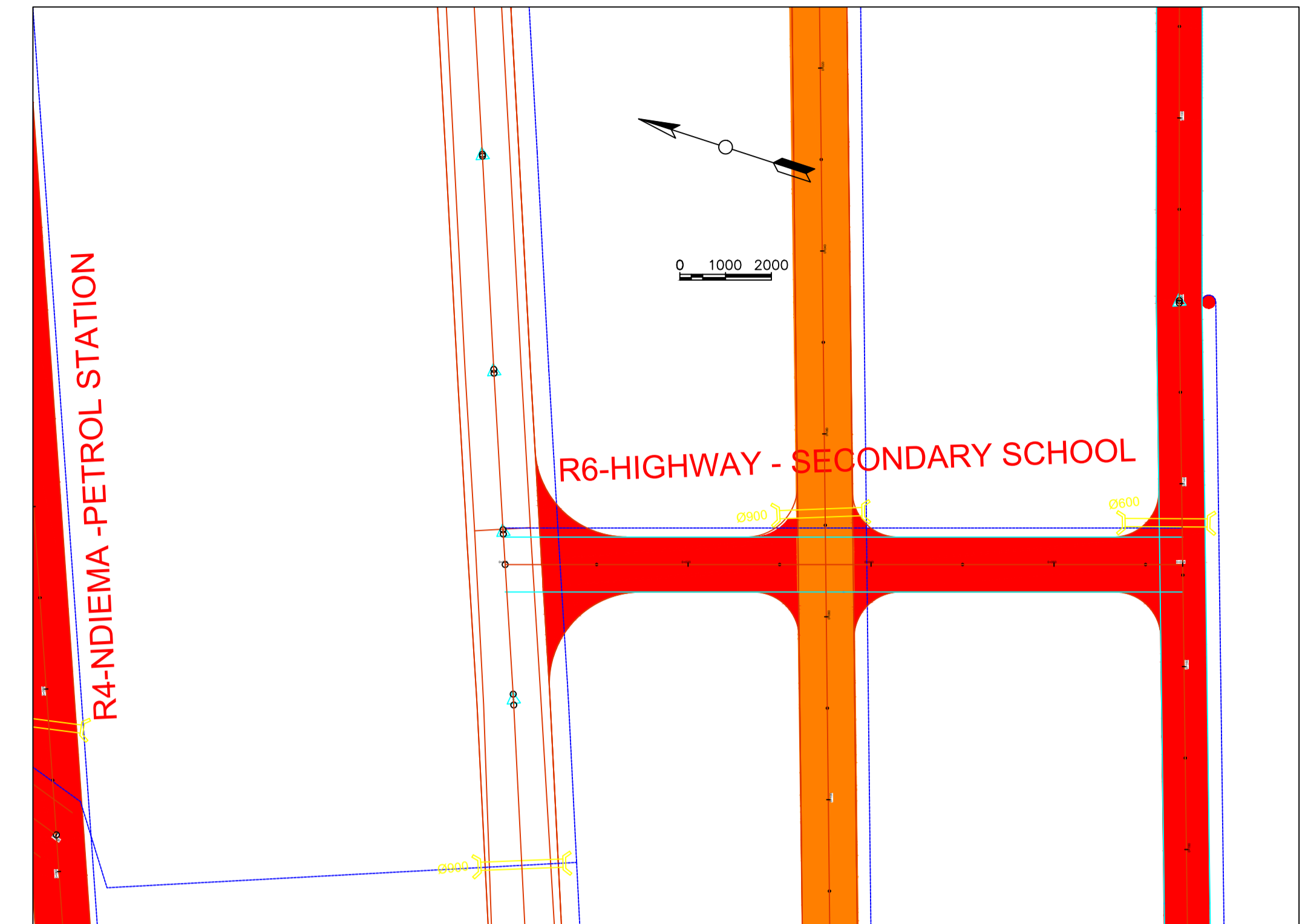
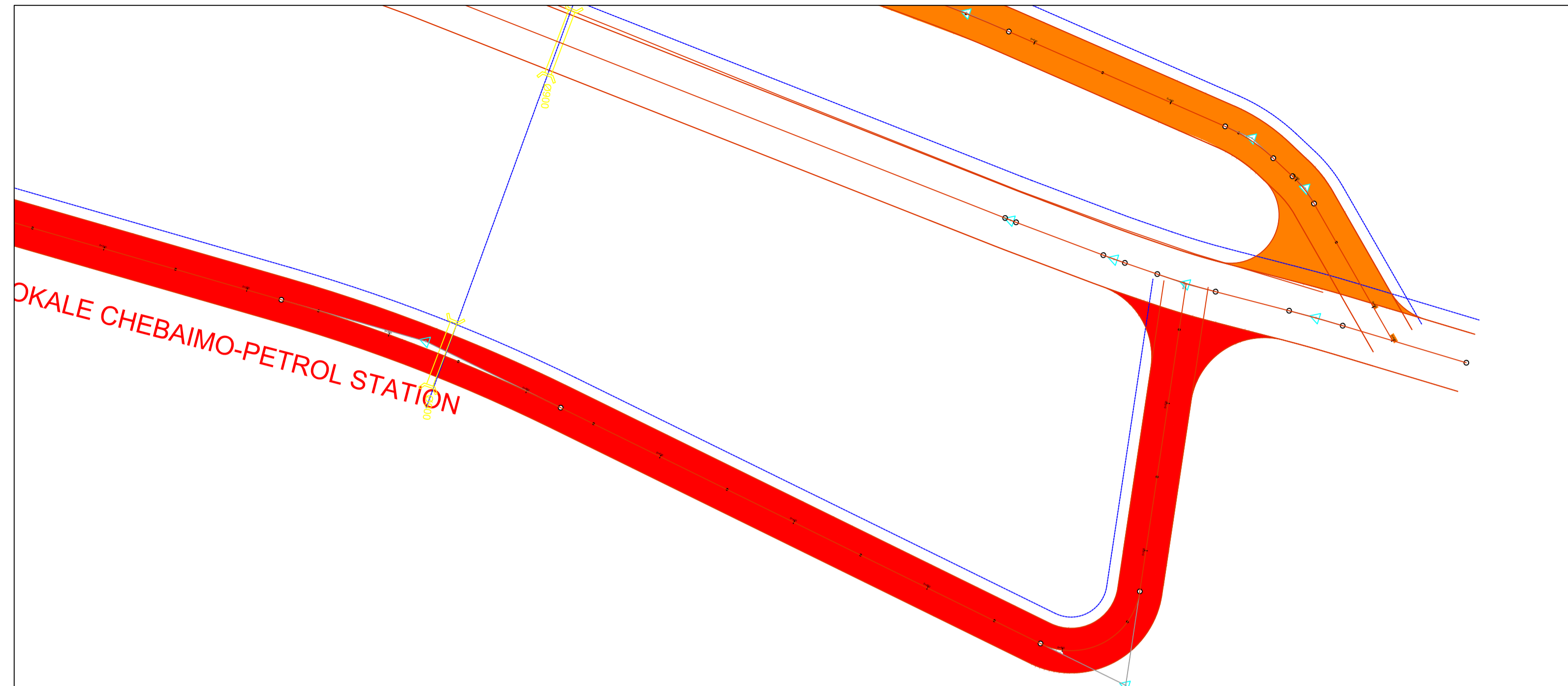


LOKALE CHEBAIMO PETROL STATION PROFILE

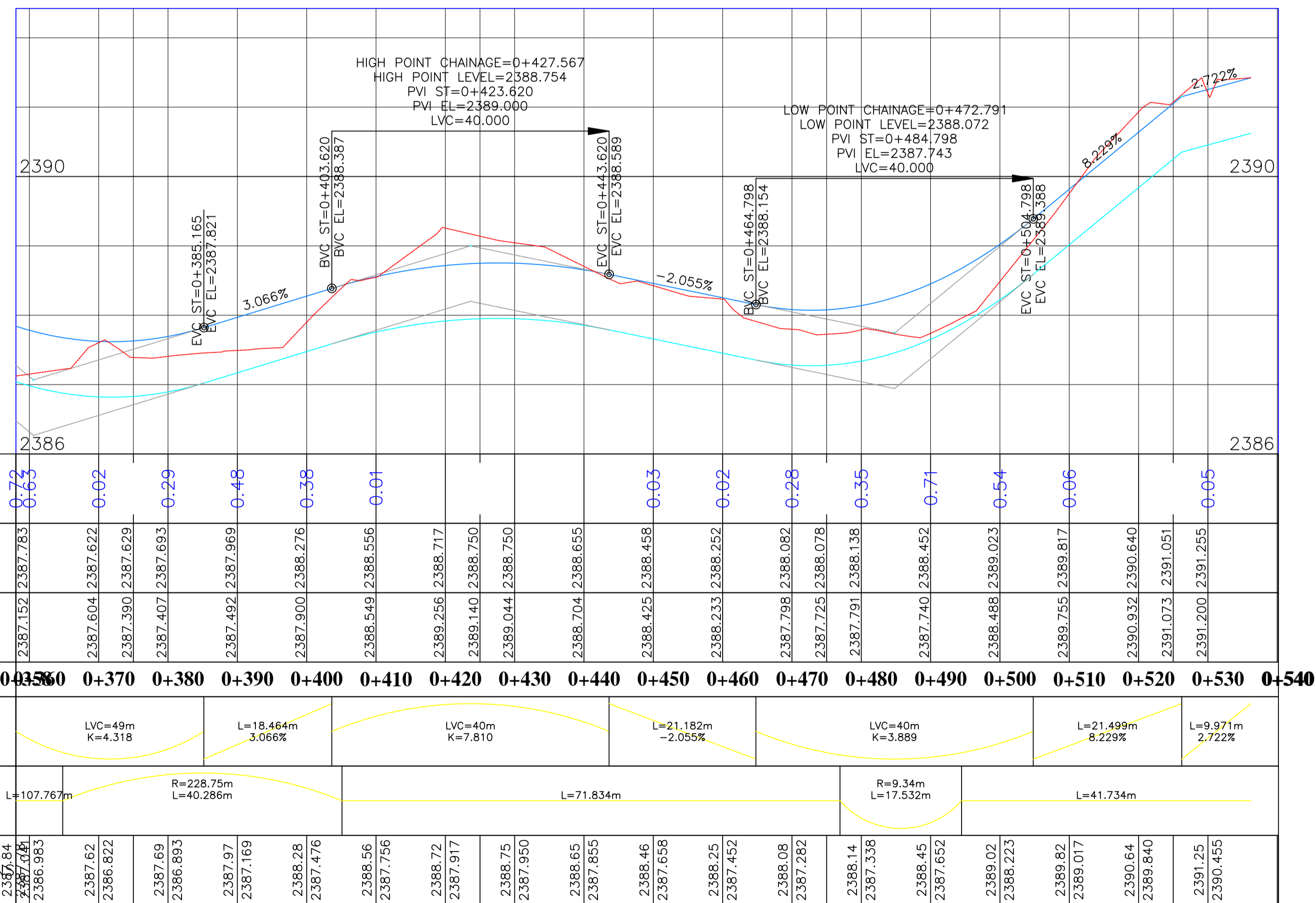


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ROAD CENTRE LINE	2388.044	2388.265	2388.072	2387.975	2387.878	2387.657	2387.692	2387.593	2387.072	2387.602	2387.294	2387.719	2387.817	2387.260	2387.943	2387.982	2388.276	2388.759	2388.702	2389.185	2389.125	2389.453	2389.394	2389.526	2389.458	2389.329	2389.489	2389.549	2389.608	2389.369	2389.667	2389.454	2389.726	2389.535	2389.765	2389.459	2389.842	2389.833	2390.121	2390.064	2390.568	2390.514	2391.182	2391.760	2391.964	2392.552	2392.410	2393.294	2392.860	2394.141	2393.662	2394.363	2394.153	2394.153	2394.324	2393.606	2394.175	2393.287	2393.981	2392.962	2393.707	2392.262	2392.941	2391.471	2392.108	2390.373	2391.276	2389.535	2390.444	2389.179	2390.028	2388.920	2389.612	2387.884	2388.798	2387.311	2388.175	2387.311	2387.375	2387.84	2387.041
C/L GROUND LEVELS	2388.044	2388.265	2388.072	2387.975	2387.878	2387.657	2387.692	2387.593	2387.072	2387.602	2387.294	2387.719	2387.817	2387.260	2387.943	2387.982	2388.276	2388.759	2388.702	2389.185	2389.125	2389.453	2389.394	2389.526	2389.458	2389.329	2389.489	2389.549	2389.608	2389.369	2389.667	2389.454	2389.726	2389.535	2389.765	2389.459	2389.842	2389.833	2390.121	2390.064	2390.568	2390.514	2391.182	2391.760	2391.964	2392.552	2392.410	2393.294	2392.860	2394.141	2393.662	2394.363	2394.153	2394.153	2394.324	2393.606	2394.175	2393.287	2393.981	2392.962	2393.707	2392.262	2392.941	2391.471	2392.108	2390.373	2391.276	2389.535	2390.444	2389.179	2390.028	2388.920	2389.612	2387.884	2388.798	2387.311	2388.175	2387.311	2387.375	2387.84	2387.041
DISTANCE (M)	0+000	0+010	0+020	0+030	0+040	0+050	0+060	0+070	0+080	0+090	0+100	0+110	0+120	0+130	0+140	0+150	0+160	0+170	0+180	0+190	0+200	0+210	0+220	0+230	0+240	0+250	0+260	0+270	0+280	0+290	0+300	0+310	0+320	0+330	0+340	0+350	0+350																																												
VERTICAL PROFILE	L=36.298m -1.934%		L=6.608m 9.103%		LVC=59m K=9.258		L=11.064m 4.389%		LVC=20m K=5.355		L=45.606m 0.593%		LVC=50m K=5.983		L=10.083m 9.003%		LVC=54m K=3.130		L=49.773m -8.321%		LVC=49m K=4.318																																																												
HORIZONTAL ALIGNMENT	L=15.951m		R=125.96m L=16.310m		R=6.09m L=9.103m		L=188.984m																		R=24.67m L=20.083m		L=107.767m																																																						
DRAIN INVERT ELEVATION	2387.46	2387.658	2388.26	2387.465	2388.07	2387.272	2387.88	2387.078	2387.69	2386.892	2386.793	2387.60	2386.802	2387.72	2386.919	2387.94	2387.143	2388.28	2387.476	2388.70	2387.902	2389.13	2388.325	2389.39	2388.594	2389.49	2388.689	2389.65	2388.749	2389.61	2388.808	2389.67	2388.867	2389.73	2388.926	2389.84	2389.042	2390.12	2389.321	2390.57	2389.768	2391.18	2390.382	2391.96	2391.164	2392.86	2392.060	2393.66	2392.862	2394.15	2393.353	2394.32	2393.524	2394.18	2393.375	2393.71	2392.907	2392.94	2392.141	2392.11	2391.308	2391.28	2390.476	2390.44	2389.644	2389.61	2388.812	2388.80	2387.998	2388.17	2387.375	2387.84	2387.041								

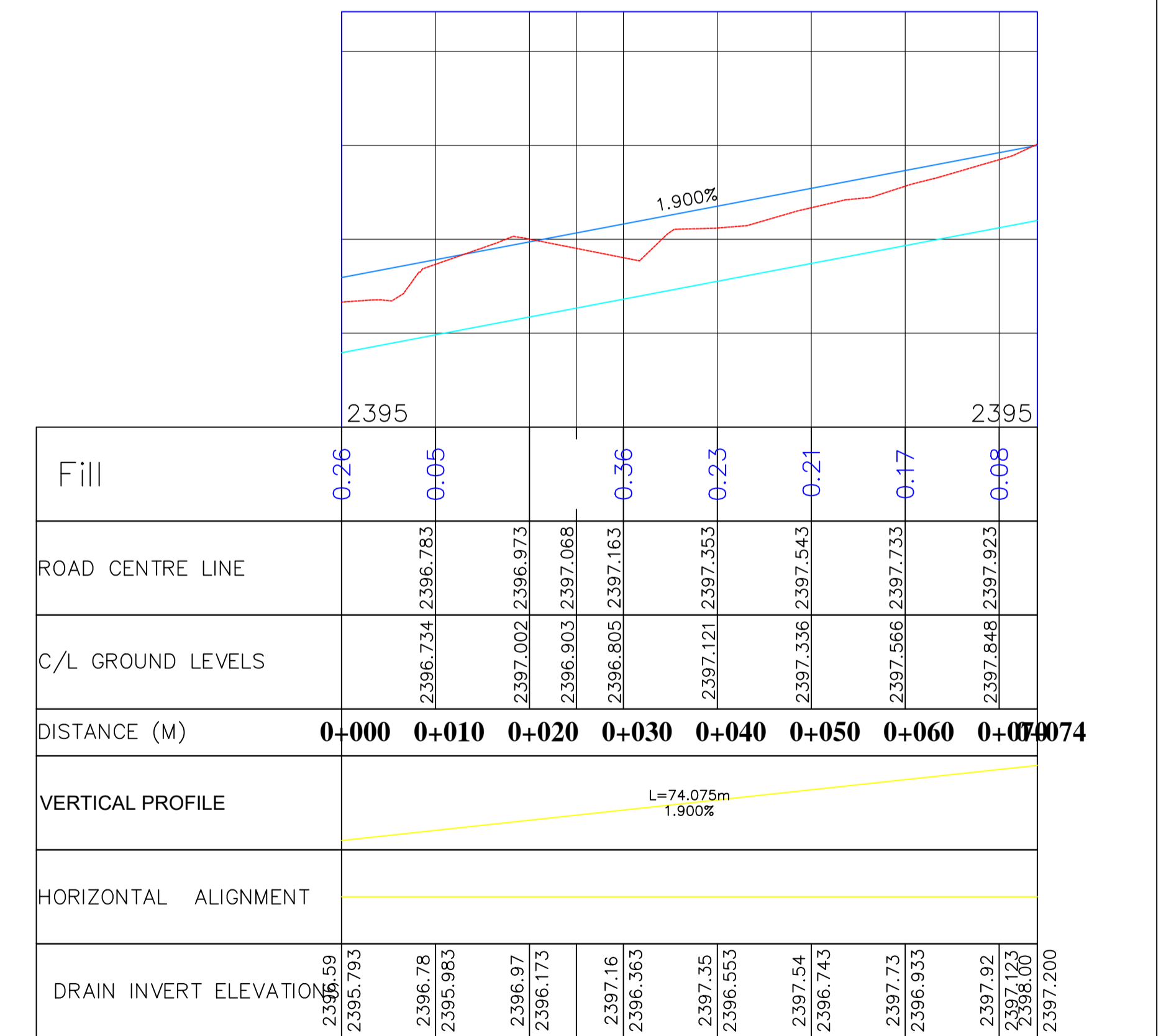
CLIENT DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT; COUNTY GOVERNMENT OF ELGEYO MARAKWET	PROJECT TITLE SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2) ELGEYO MARAKWET COUNTY	CONSULTANTS SOBOCON ASSOCIATES LIMITED 	REVISIONS			DRAWING TITLE: CHEPTONGEI- ROADS & DRAINAGE PLAN & PROFILE DRAWINGS	SHEET TITLE: LOKALE - CHEBAIMO - PETRO STATION PROFILE		DESIGN BY: R.O
			NO. DATE DESCRIPTION	DWG. NO.: KISIP-SAL/ELG/CHEP/P&P/05	DRAWN BY: S.M				
						SHEET NO.: 12 OF 39	CHECKED BY: J.O	APPROVED BY: B.O	
						SCALE: (A1) HR-1:500 VR-1:50	STAGE: DETAILED DESIGN DATE: DECEMBER 2023		



LOKALE CHEBAIMO PETROL STATION PROFILE



HIGHWAY-SECONDARY SCHOOL PROFILE



LOKALE-CHEBAIMO-PETRO STATION

& HIGHWAY-SECONDARY SCHOOL PROFILE

DWG. NO.:KISIP-SAL/ELG/CHEP/P&P/05-1

SHEET NO:13 OF 39

SCALE: (A1) HR-1:500
VR-1:50

STAGE: DETAILED DESIGN
DATE: DECEMBER 2023

DESIGN BY: R.O
DRAWN BY: S.M
CHECKED BY: J.O
APPROVED BY: B.O

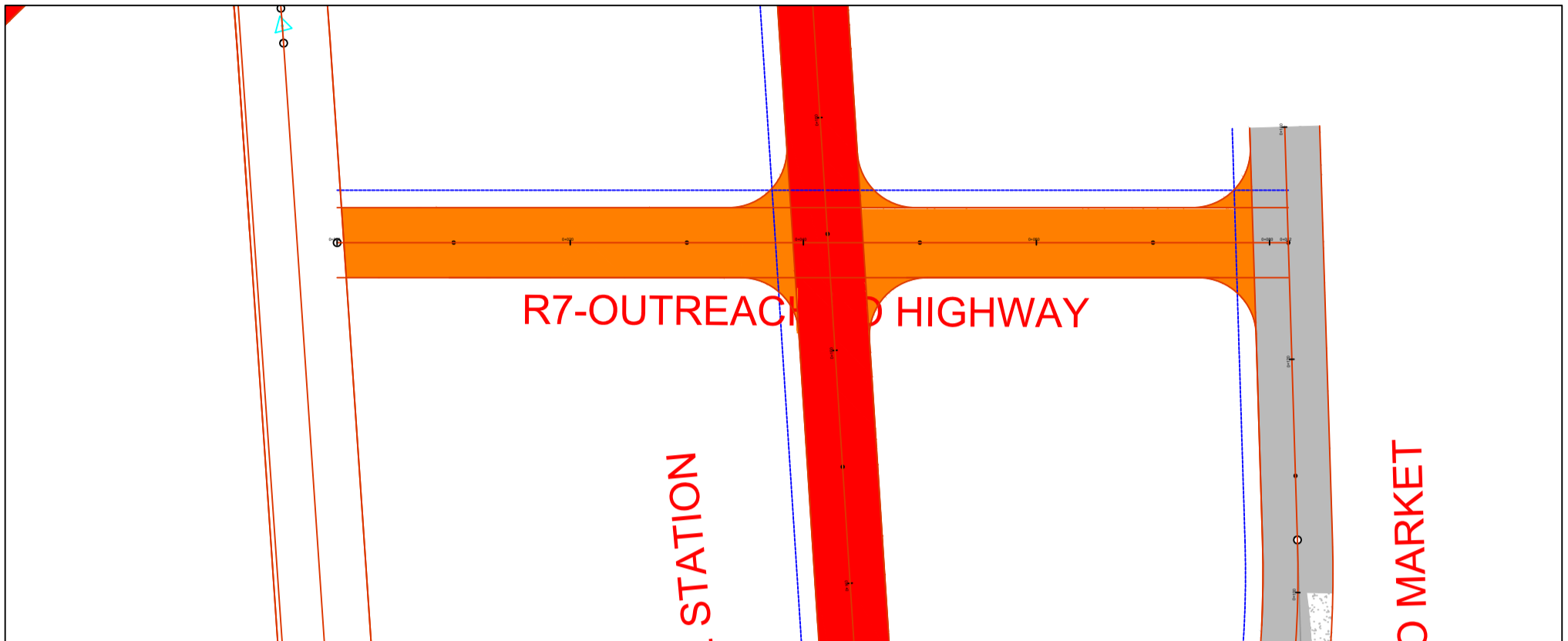
CLIENT
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT; COUNTY GOVERNMENT OF ELGEYO MARAKWET

PROJECT TITLE
SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2)
ELGEYO MARAKWET COUNTY

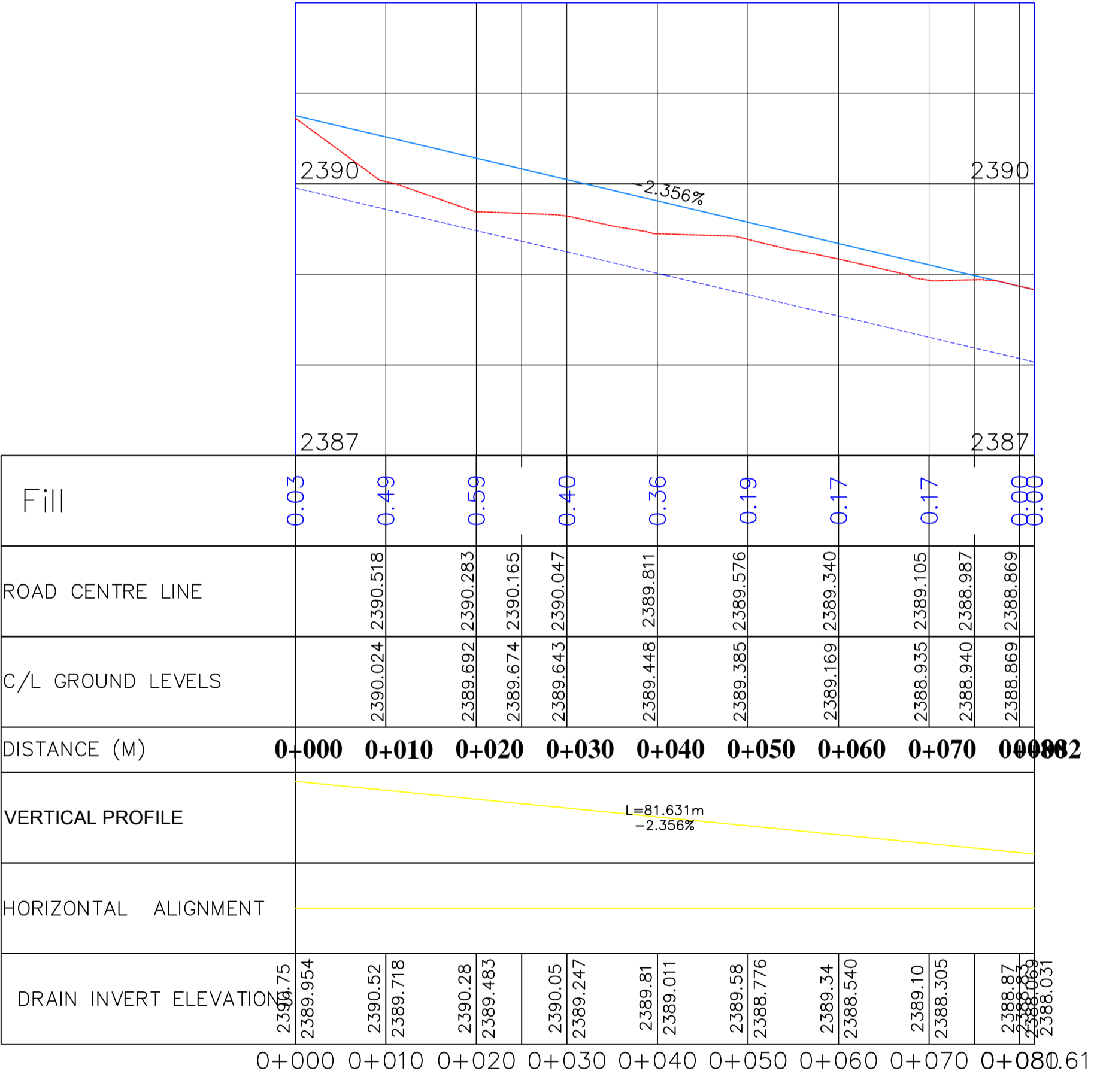
CONSULTANTS
SOBOCON ASSOCIATES LIMITED

REVISIONS
NO. DATE DESCRIPTION

DRAWING TITLE:
CHEPTONGEI- ROADS & DRAINAGE PLAN & PROFILE DRAWINGS




OUTREACH TO HIGHWAY PROFILE



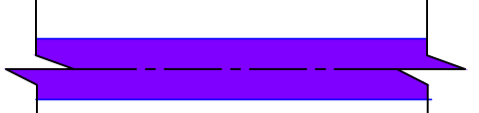
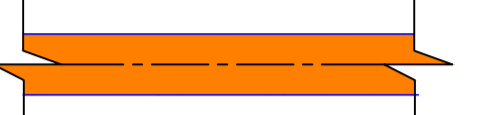
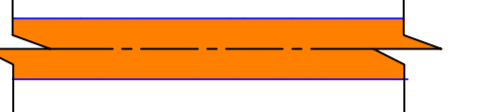
FOR ELECTRICAL.dwg

CLIENT DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT; COUNTY GOVERNMENT OF ELGEYO MARAKWET	PROJECT TITLE SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2) ELGEYO MARAKWET COUNTY	CONSULTANTS SOBOCON ASSOCIATES LIMITED 	REVISIONS			DRAWING TITLE: CHEPTONGEI- ROADS & DRAINAGE PLAN & PROFILE DRAWINGS	SHEET TITLE: OUTREACH TO HIGHWAY PROFILE		DESIGN BY:	R.O
			NO.	DATE	DESCRIPTION		DWG. NO.:KISIP-SAL/ELG/CHEP/P&P/06		DRAWN BY:	S.M
							SHEET NO.:14 OF 39		CHECKED BY:	J.O
							SCALE: (A1) HR-1:500 VR-1:50	STAGE: DETAILED DESIGN	APPROVED BY:	B.O
						DATE: DECEMBER 2023				



CLIENT DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT; COUNTY GOVERNMENT OF ELGEYO MARAKWET	PROJECT TITLE SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2) ELGEYO MARAWET	CONSULTANTS SOBOCON ASSOCIATES LIMITED 	REVISIONS—0			DRAWING TITLE: CHEBIEMIT LOT 1 :- ROADS & DRAINAGE GENERAL LAYOUT	SHEET TITLE: CHEBIEMIT GEOREFERENCED LAYOUT		DESIGN BY: R.O								
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NO.	DATE	DESCRIPTION															
SCALE: (A1) HR-1:500 VR-1:50						STAGE: DETAILED DESIGN DATE: DECEMBER 2023	APPROVED BY: B.O										

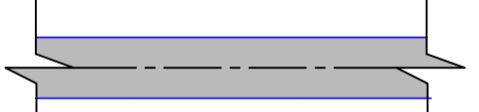
CHEBIEMIT LOT 1 ROADS

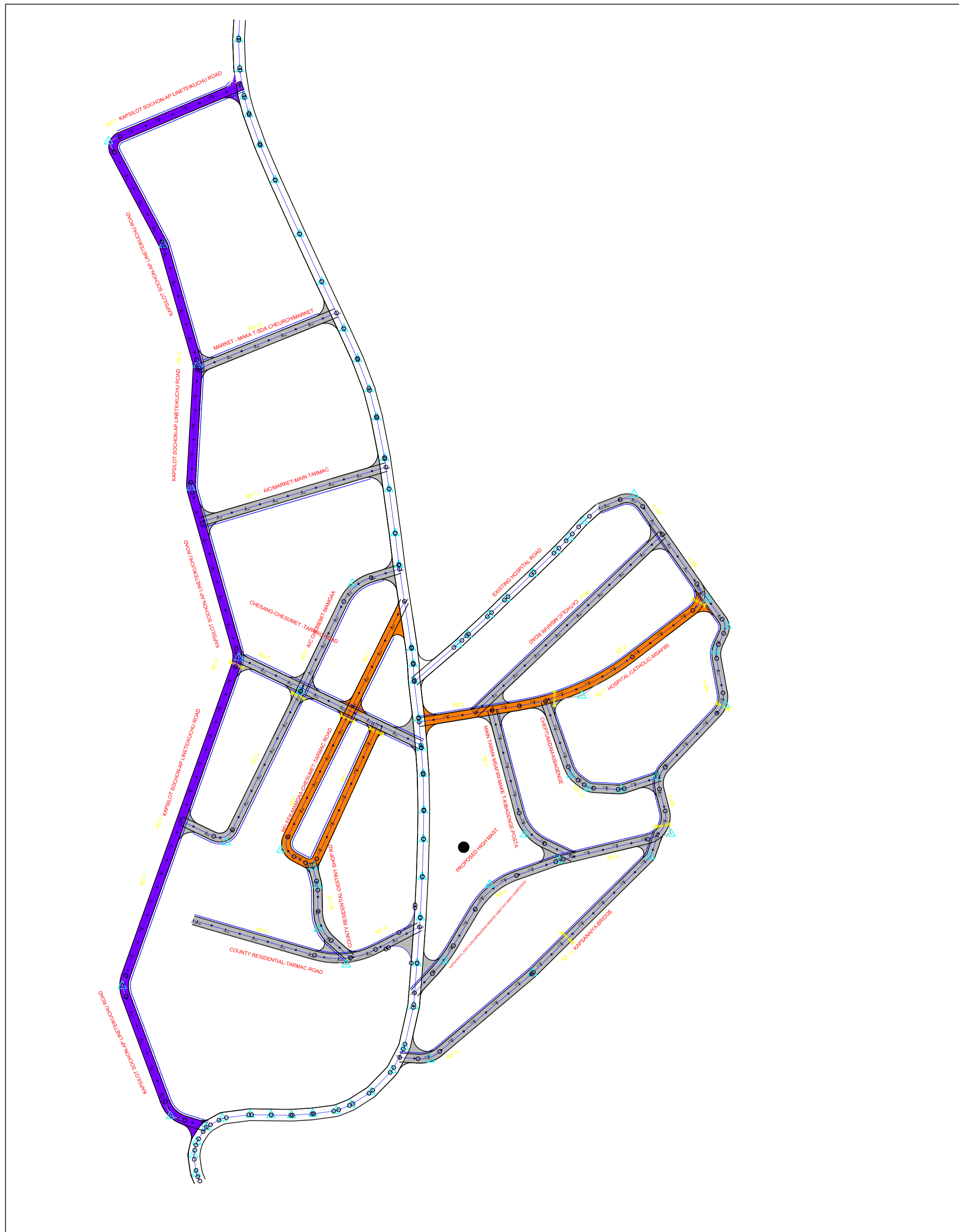
	Beelek Shop-Mamгаа-chesumet		
1	petrol station-Tarmac road	0.315	
2	Hospital-Catholic-msafiri	0.324	
3	Kapsilot Sochon-Ap line teikuchu	0.822	
TOTAL		1.461	


LOT 1 ADDITIONAL INVESTMENT IN CHEBIEMIT SETTLEMENT IN ELGEYO

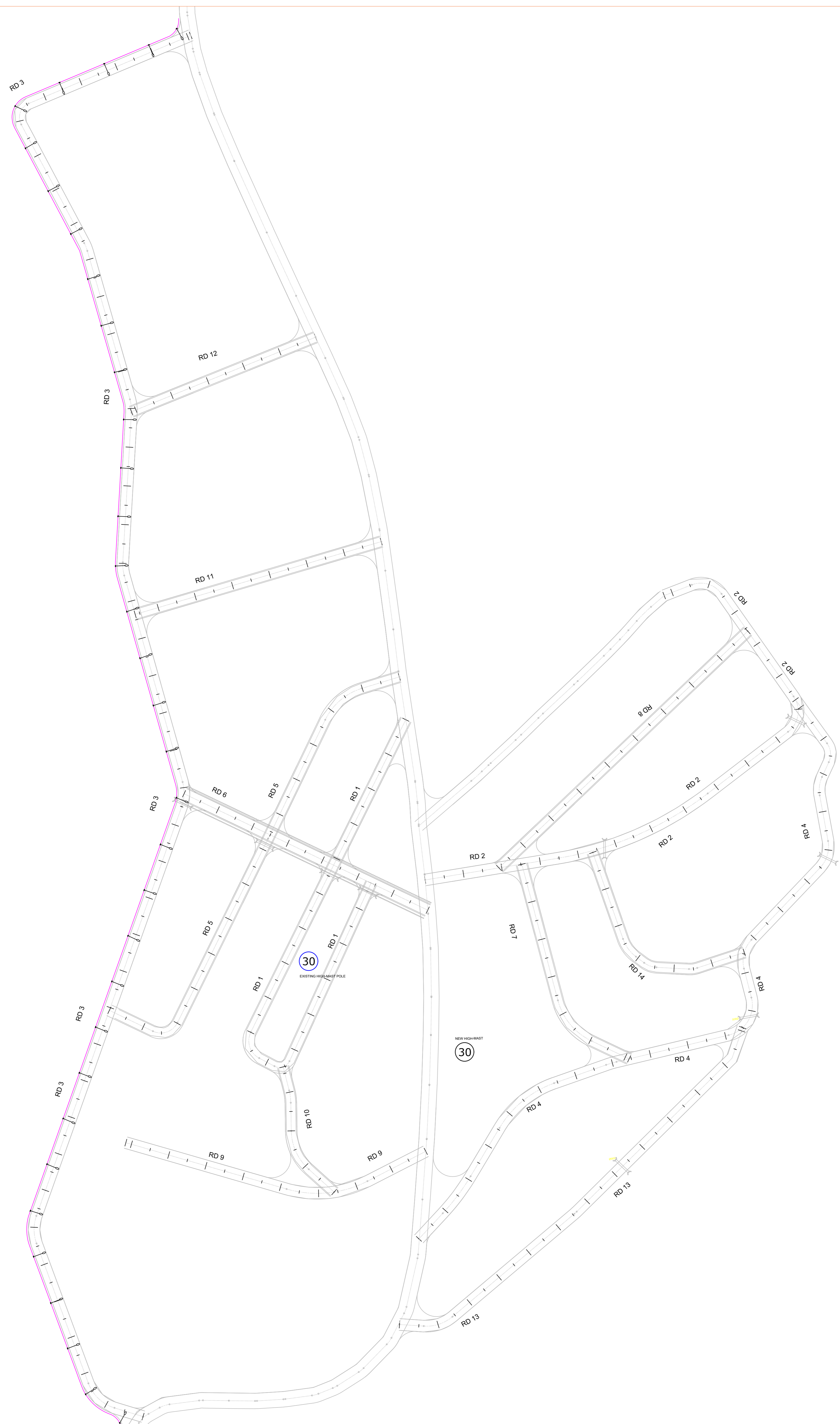
HIGH MAST FLOOD LIGHT	1NO.
STREET LIGHTING	25NO.

CHEBIEMIT LOT 2 ROADS

	Kapsanaiya Junction-kapngorian		
4	Bridge-Simotwo-Kimoi Homestead	0.405	
5	Aic Chebiemit-mamгаа	0.26	
6	Chesang-Chesumet Petrol station-Tarmac road	0.139	
7	Tarmac msafiri-Make T-Kibagenge-Posta	0.122	
8	Catholic-Msafiri Road	0.177	
9	County Residential-Tarmac Road	0.163	
10	County Residential-Destiny shop-kipteguchoi-Tarmac rd	0.08	
11	AIC/market-main Tarmac Rd 10	0.132	
12	Market - Maka T-SDA church/market	0.102	
13	Kapsanaiya-Bridge	0.24	
14	Cheptum/Dam-Kibagenge	0.118	
TOTAL		1.938	



CLIENT DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT; COUNTY GOVERNMENT OF ELGEYO MARAKWET	PROJECT TITLE SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2) ELGEYO MARAWET	CONSULTANTS SOBOCON ASSOCIATES LIMITED 	REVISIONS-0			DRAWING TITLE: CHEBIEMIT LOT 1 :- ROADS & DRAINAGE GENERAL LAYOUT	SHEET TITLE: GENERAL LAYOUT		DESIGN BY: R.O
			NO.	DATE	DESCRIPTION		DWG. NO.:KISIP-SAL/ELG/CHEB/GL/01	DRAWN BY: S.M	
						SHEET NO: 16 OF 39		CHECKED BY: J.O	
						SCALE: (A1) HR-1:500 VR-1:50	STAGE: DETAILED DESIGN DATE: DECEMBER 2023	APPROVED BY: B.O	



CLIENT
DEPARTMENT OF HOUSING
AND URBAN DEVELOPMENT,
COUNTY GOVERNMENT OF
ELGEYO MARAKWET

PROJECT TITLE
SECOND KENYA
INFORMAL SETTLEMENTS
IMPROVEMENT PROJECT
(KISIP 2) ELGEYO
MARAKWET COUNTY

CONSULTANTS
SOBOCON ASSOCIATES
LIMITED

Consulting Engineers & Project Managers

REVISIONS-0		
NO.	DATE	DESCRIPTION

DRAWING TITLE:
CHEBIEMIT:- COMBINED LAYOUT

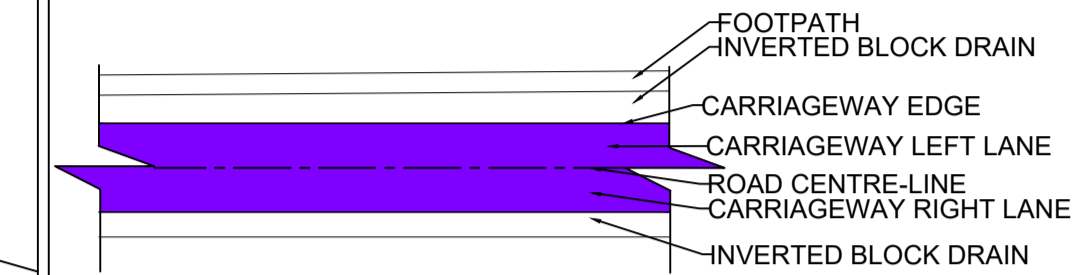
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SHEET NO: 17 OF 39	B.O
SCALE: (A1) HR-1:500 VR-1:50	APPROVED BY: B.O
STAGE: DETAILED DESIGN	DATE: DECEMBER 2023

DESCRIPTION

ROAD NAME

1. KAPSILOT SOCHON-AP LINE TEIKUCHU

TWO WAY SINGLE CARRIAGEWAY, TWO LANES EACH
 3.5METRES
 1.5METRES FOOTPATH
 1.0METRES IBD



1:5 MAX CUT FOR ERF ACCESS

1:5 MAX FILL FOR ERF ACCESS

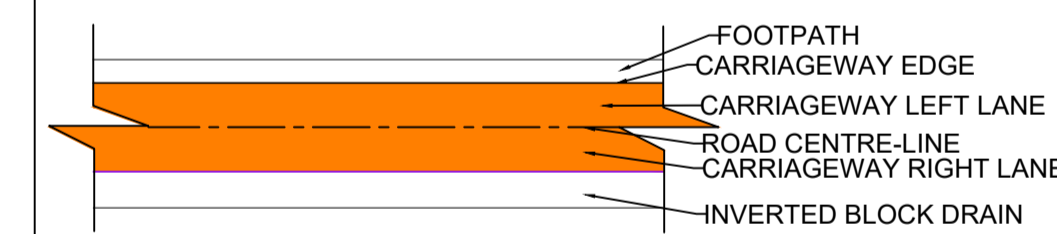
TYPICAL CROSS SECTION TYPE 1

DESCRIPTION

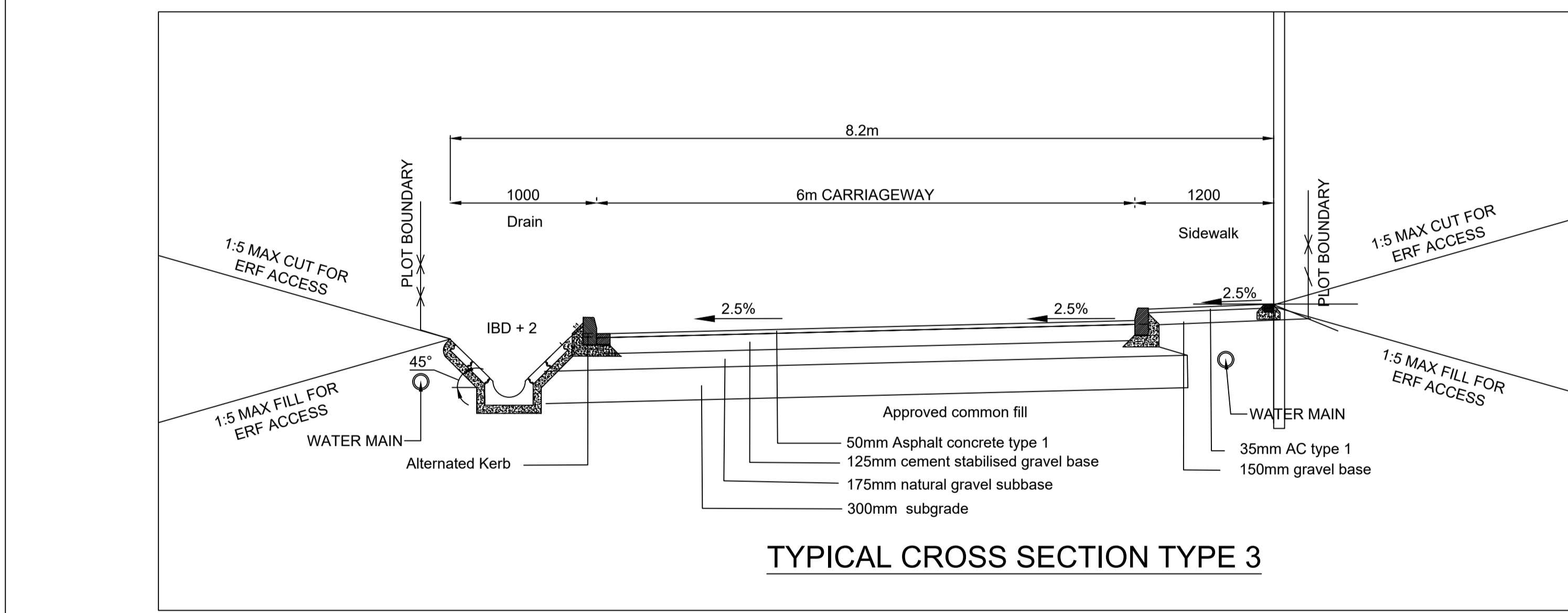
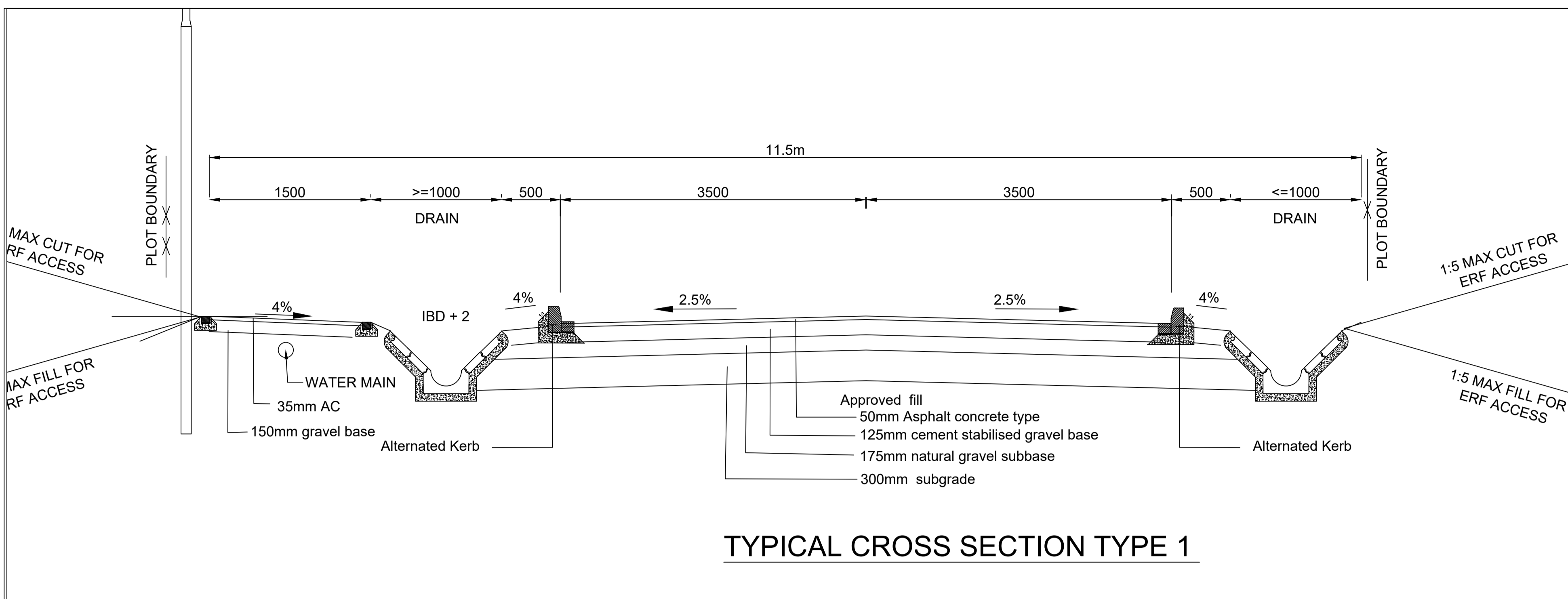
ROAD NAME

1. HOSPITAL -CATHOLIC-MSAFIRI ROAD
2. BELEEK SHOP-MAMGAA-CHESUMET-PETROL STATION-TARMAC ROAD

TWO WAY SINGLE CARRIAGEWAY, TWO LANES EACH
 3.0METRES
 1.2METRES FOOTPATH
 1.0 METRES IBD




TYPICAL CROSS SECTION TYPE 3



CLIENT
 DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT,
 COUNTY GOVERNMENT OF ELGEYO MARAKWET

PROJECT TITLE
 SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2)
 ELGEYO MARAKWET COUNTY

CONSULTANTS
 SOBOCON ASSOCIATES LIMITED



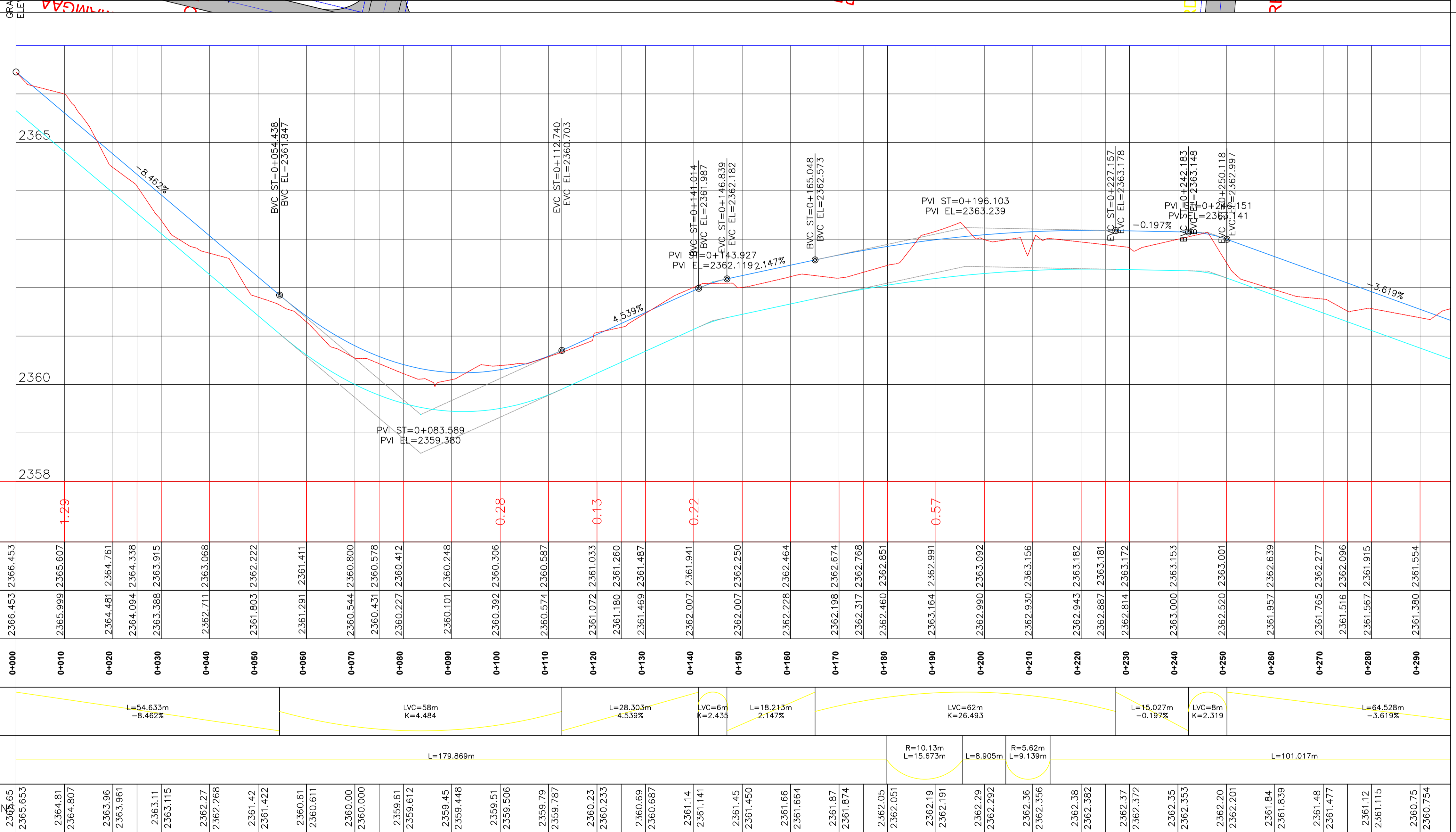
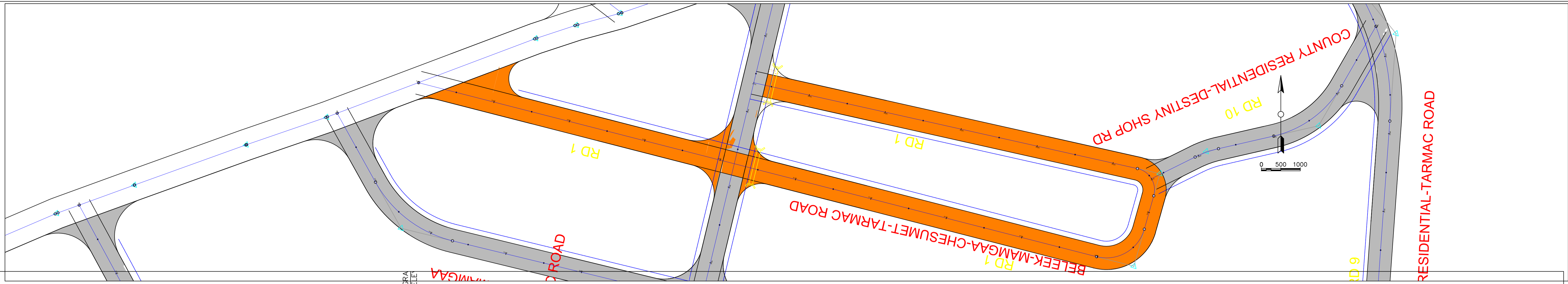
REVISIONS-0


NO.	DATE	DESCRIPTION

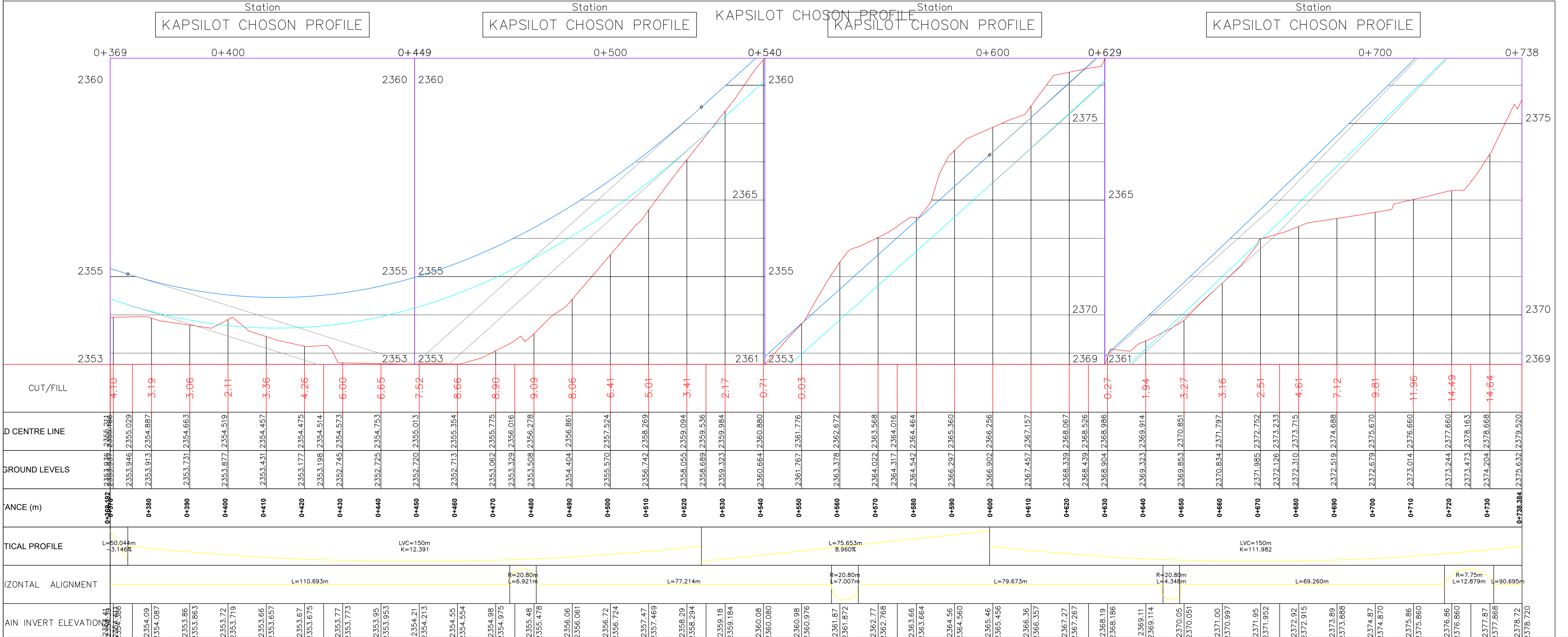
DRAWING TITLE:
 CHEBIEMIT SETTLEMENT TYPICAL ROAD CROSS SECTIONS


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 DWG. NO.:KISIP-SAL/ELG/CHEB/TC/01
 SHEET NO: 17 OF 39
 SCALE: (A1) 1:2000
 STAGE: DETAILED DRAWINGS
 DATE: DECEMBER 2023

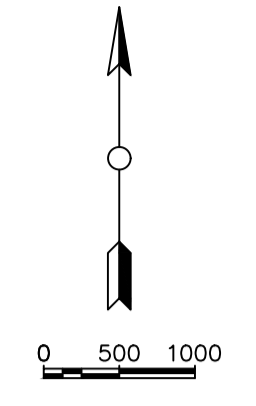
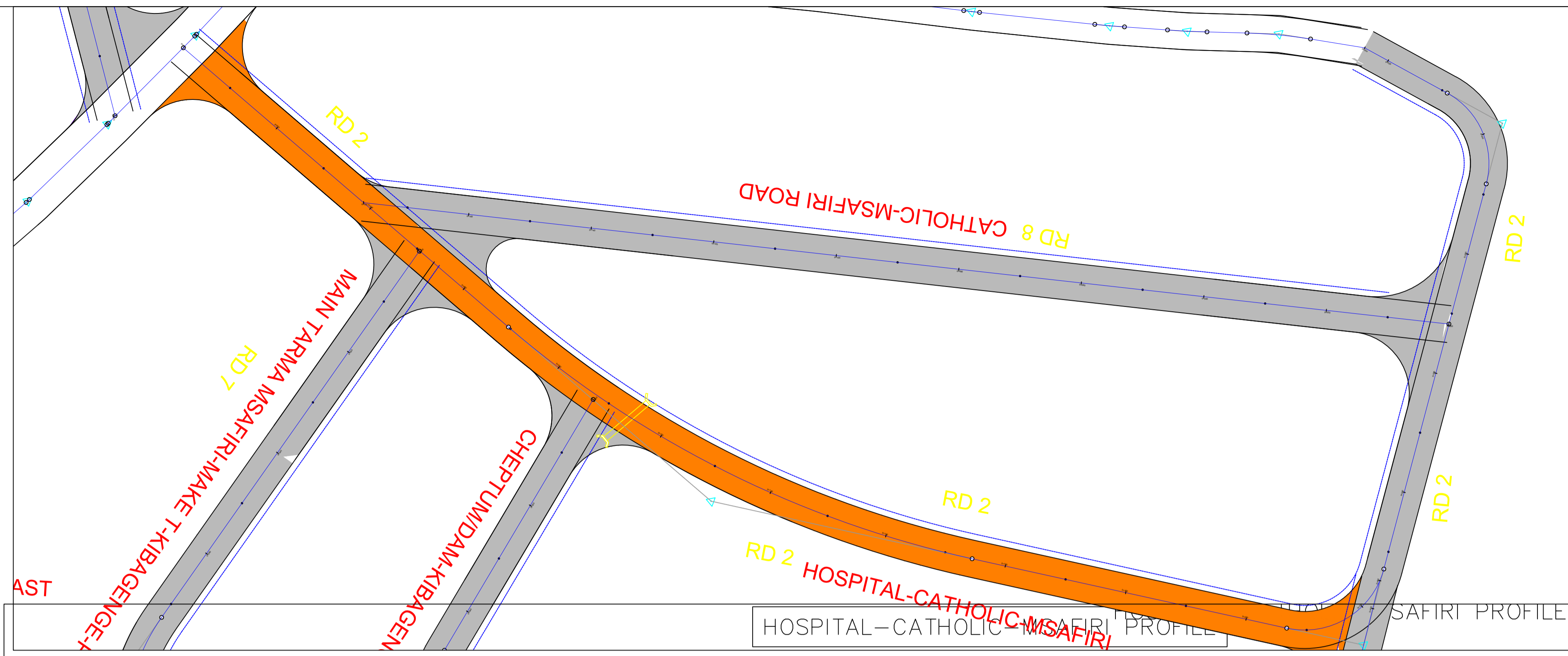
DESIGN BY: R.O
 DRAWN BY: S.M
 CHECKED BY: J.O
 APPROVED BY: B.O



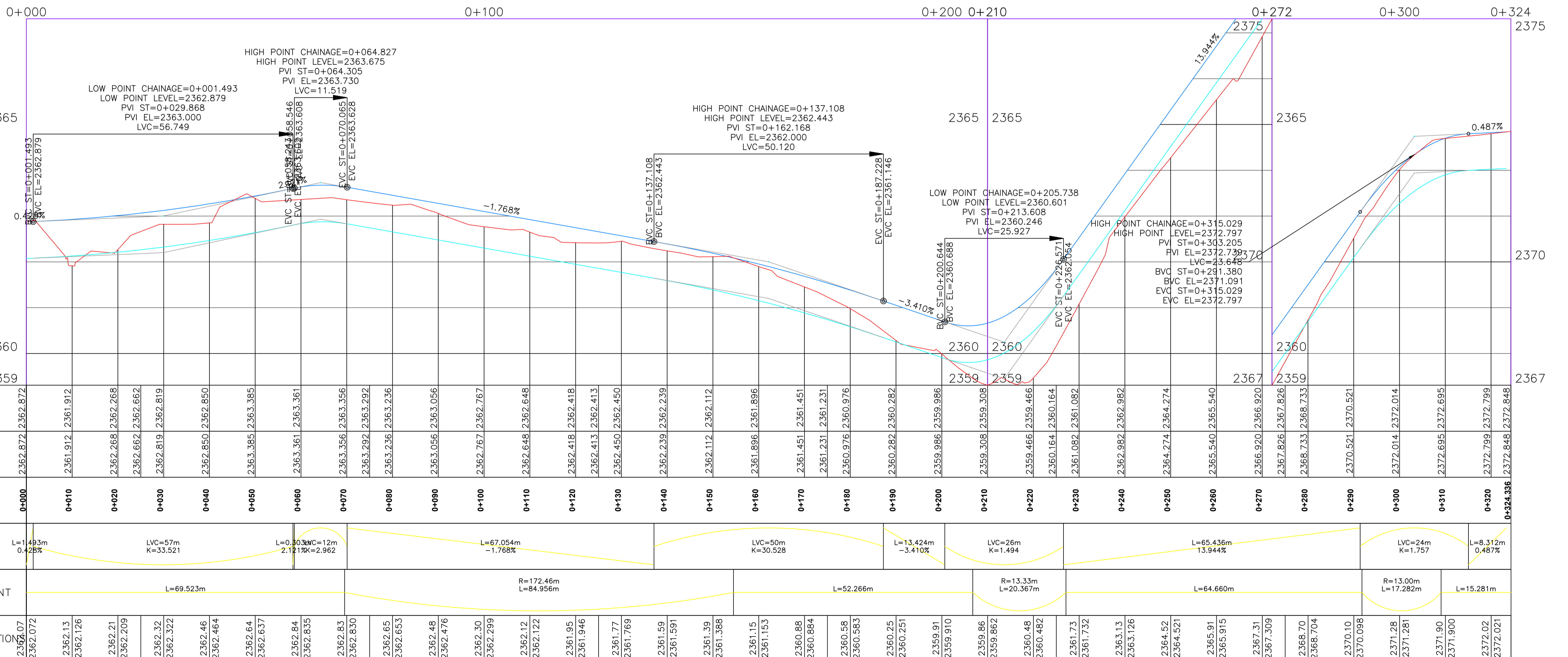
CLIENT DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT; COUNTY GOVERNMENT OF ELGEYO MARAKWET	PROJECT TITLE SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2) ELGEYO MARAKWET COUNTY	CONSULTANTS SOBOCON ASSOCIATES LIMITED 	REVISIONS			DRAWING TITLE: CHEBIEMIT:- ROADS & DRAINAGE PLAN & PROFILE DRAWINGS	SHEET TITLE: BELEEK SHOP-MAMGAA-CHESUMET -TARMAC ROAD PROFILE		DESIGN BY: R.O
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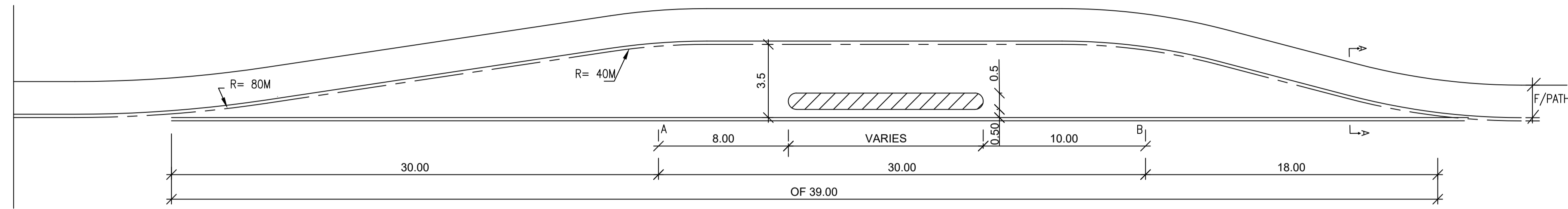
CLIENT DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT; COUNTY GOVERNMENT OF ELGEYO MARAKWET	PROJECT TITLE SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2) ELGEYO MARAKWET COUNTY	CONSULTANTS SOBOCON ASSOCIATES LIMITED 	REVISIONS			DRAWING TITLE: CHEBIEMIT:- ROADS & DRAINAGE PLAN & PROFILE DRAWINGS	SHEET TITLE: KAPSILOT SOCHON-AP LINETEIKUCHU		DESIGN BY: R.O					
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NO.	DATE	DESCRIPTION												
CLIENT						SHEET NO: 21 OF 39		CHECKED BY: J.O						
PROJECT TITLE						SCALE: (A1) HR-1:500 VR-1:50	STAGE: DETAILED DESIGN DATE: DECEMBER 2023	APPROVED BY: B.O						



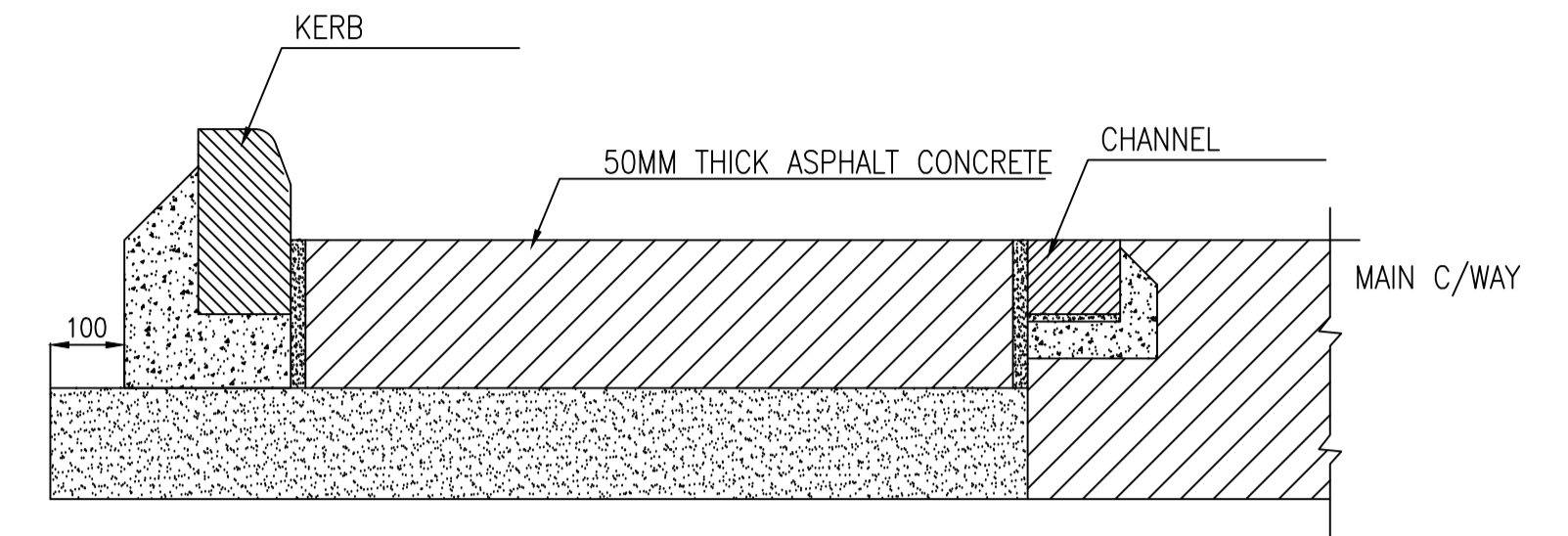
HOSPITAL-CATHOLIC-MSAFIRI PROFILE HOSPITAL-CATHOLIC-MSAFIRI PROFILE HOSPITAL-CATHOLIC-MSAFIRI PROFILE HOSPITAL-CATHOLIC-MSAFIRI PROFILE



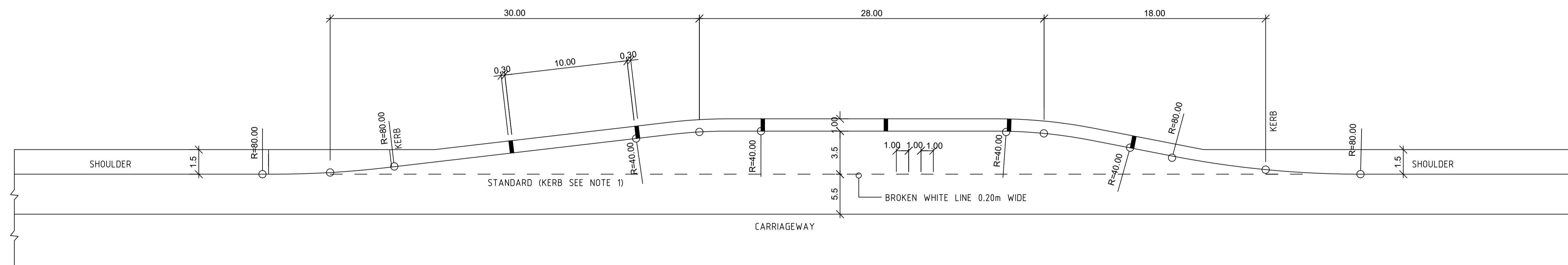
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								SHEET NO.:	19 OF 39	CHECKED BY:	J.O	
								SCALE:	(A1) HR-1:500 VR-1:50	STAGE:	DETAILED DESIGN	APPROVED BY:
							DATE:	DECEMBER 2023				



DETAILS OF STANDARD BUS LAY-BY
SCALE 1:200



SECTION A-A
SCALE 1:10



BUS-BAY DETAILS
1:200

CLIENT
DEPARTMENT OF HOUSING
AND URBAN DEVELOPMENT;
COUNTY GOVERNMENT OF
ELGEYO MARAKWET

PROJECT TITLE
SECOND KENYA
INFORMAL SETTLEMENTS
IMPROVEMENT PROJECT
(KISIP 2) ELGEYO
MARAKWET COUNTY

CONSULTANTS
SOBOCON ASSOCIATES
LIMITED



REVISIONS-0

NO.	DATE	DESCRIPTION

DRAWING TITLE:
ELGEYO MARAKWET COUNTY:
ROADS & DRAINAGE

SHEET TITLE: STANDARD DRAWING:
TYPICAL BUS BAY DETAILS

DWG. NO.: KISIP-SAL/ELG/SD/01

SHEET NO.: 23 OF 39

SCALE: AS SHOWN

STAGE: DETAILED DRAWINGS

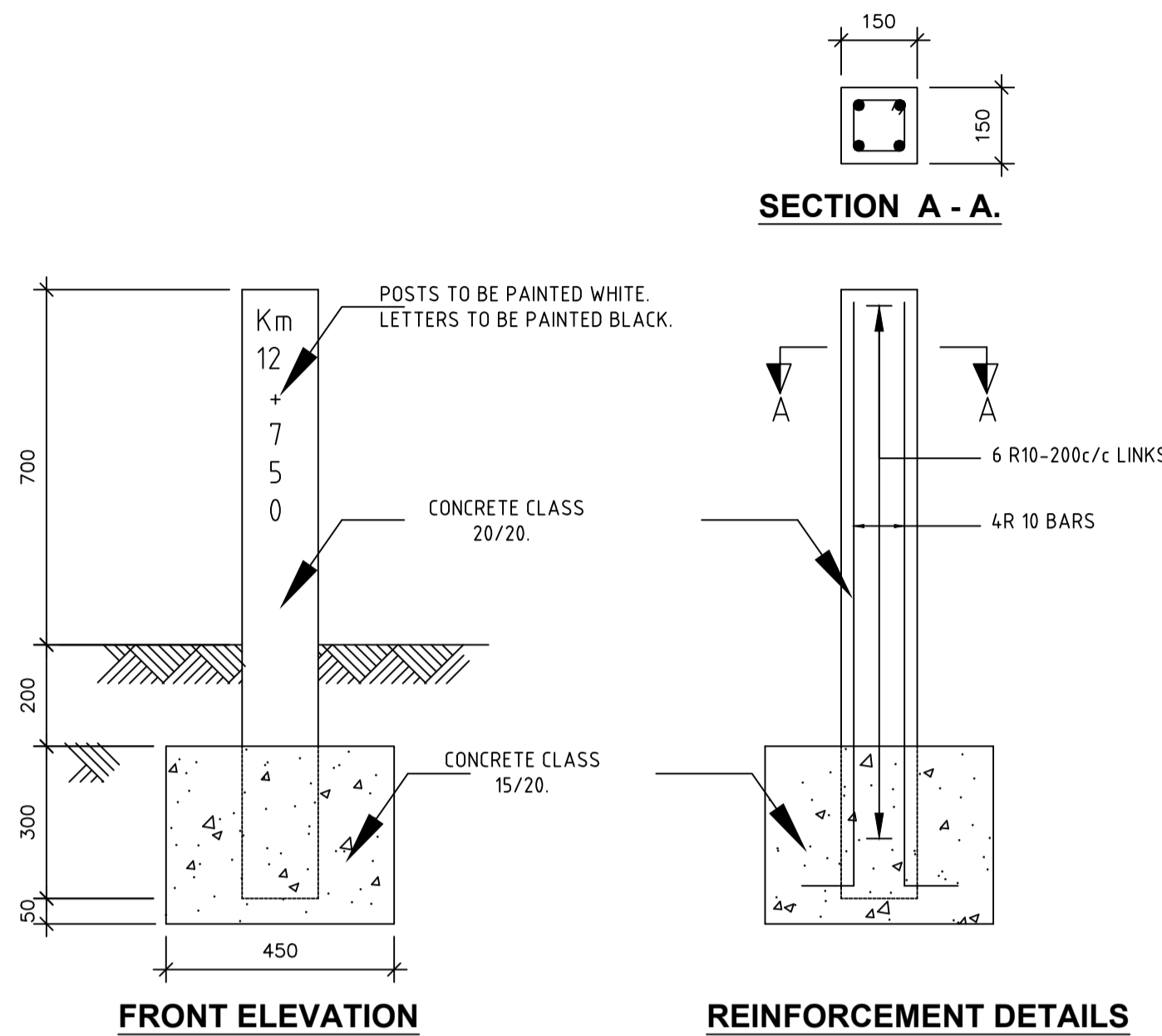
DATE: DECEMBER 2023

DESIGN BY: R.O

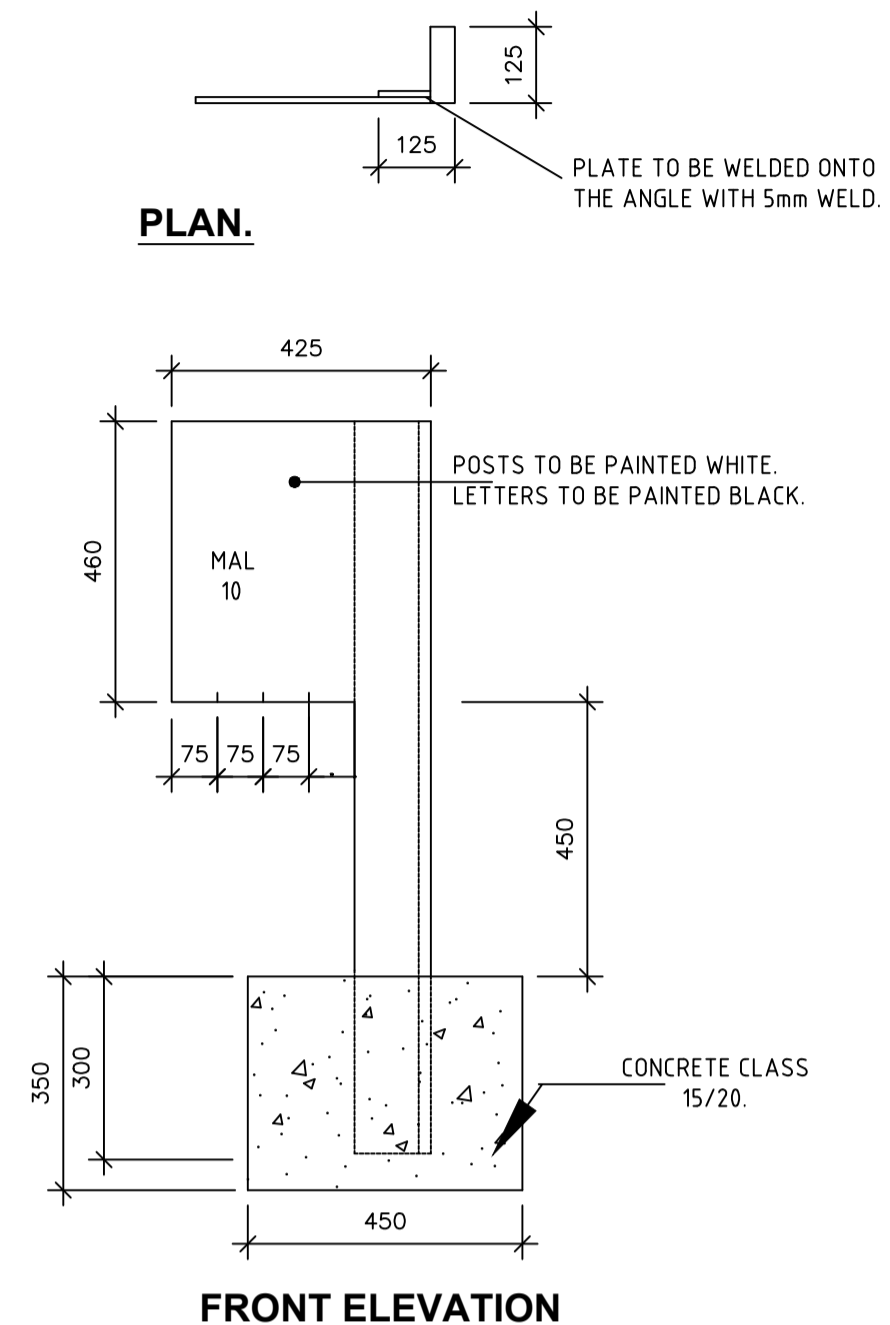
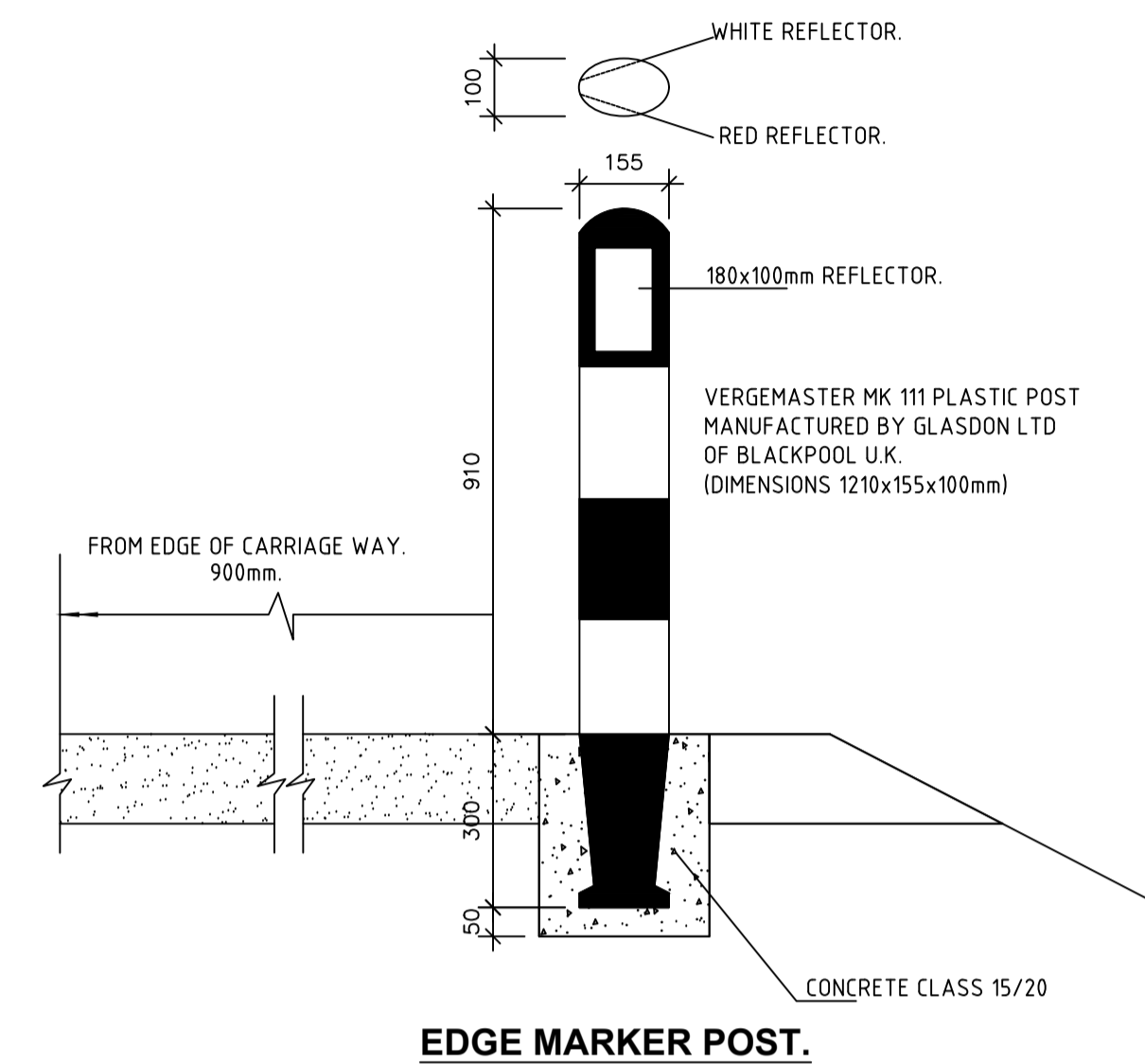
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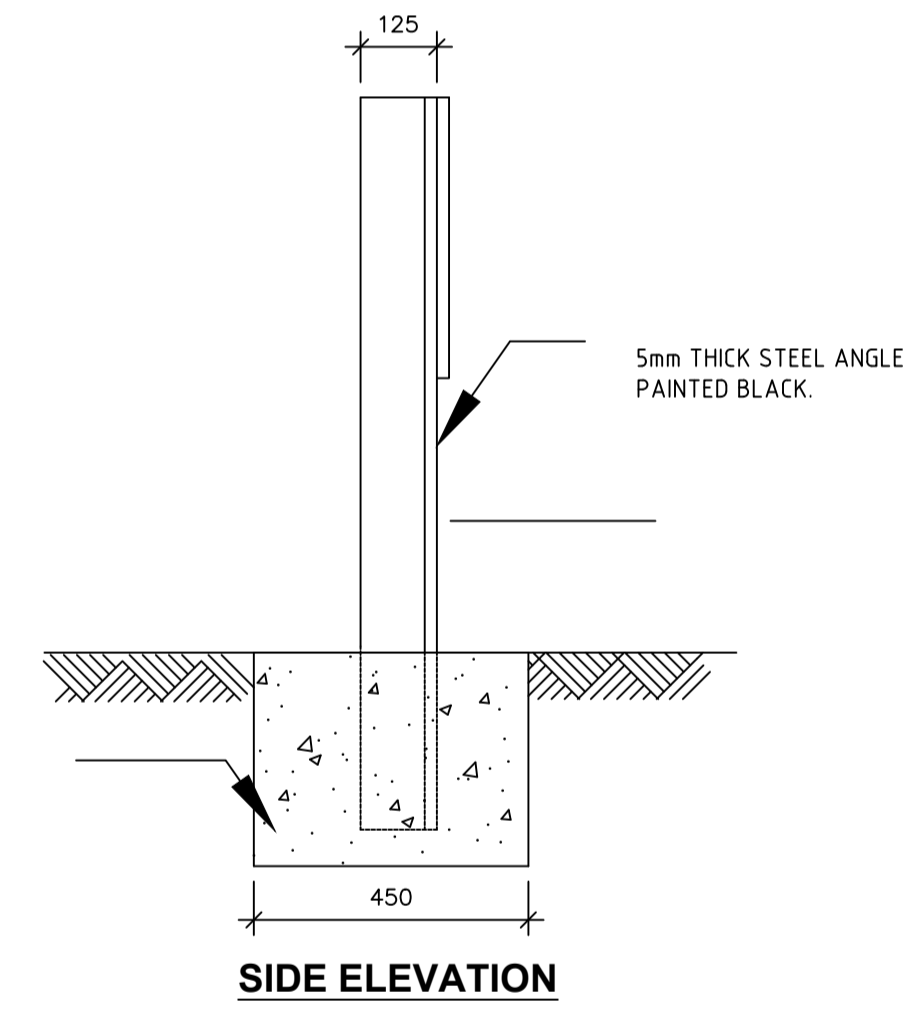
APPROVED BY: B.O



ROAD RESERVE BOUNDARY POST.
SCALE:1:10



KILOMETRE MARKER POST
SCALE:1:10



- NOTES:**
- EDGE MARKER POST AS DETAILED TO BE PROVIDED BOTH SIDES OF CARRIAGEWAY IN THE FOLLOWING CASE:
ON EMBANKMENTS OF HEIGHT 2m OR ABOVE WHERE GUARDRAIL IS NOT PROVIDED-
 - THE DISTANCE BETWEEN EDGE MARKER POST TO BE 50m (ON STRAIGHT), ON CURVES R<300m, THE DISTANCE TO BE 25m. ON HILLS THE DISTANCE TO BE 25m WHEN THERE IS LIMITED SIGHT DISTANCE. THIS DISTANCE MUST BE REDUCED SO THAT AT LEAST 5 POSTS ARE VISIBLE.
 - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

CLIENT
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT; COUNTY GOVERNMENT OF ELGEYO MARAKWET

PROJECT TITLE
SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2) ELGEYO MARAKWET COUNTY

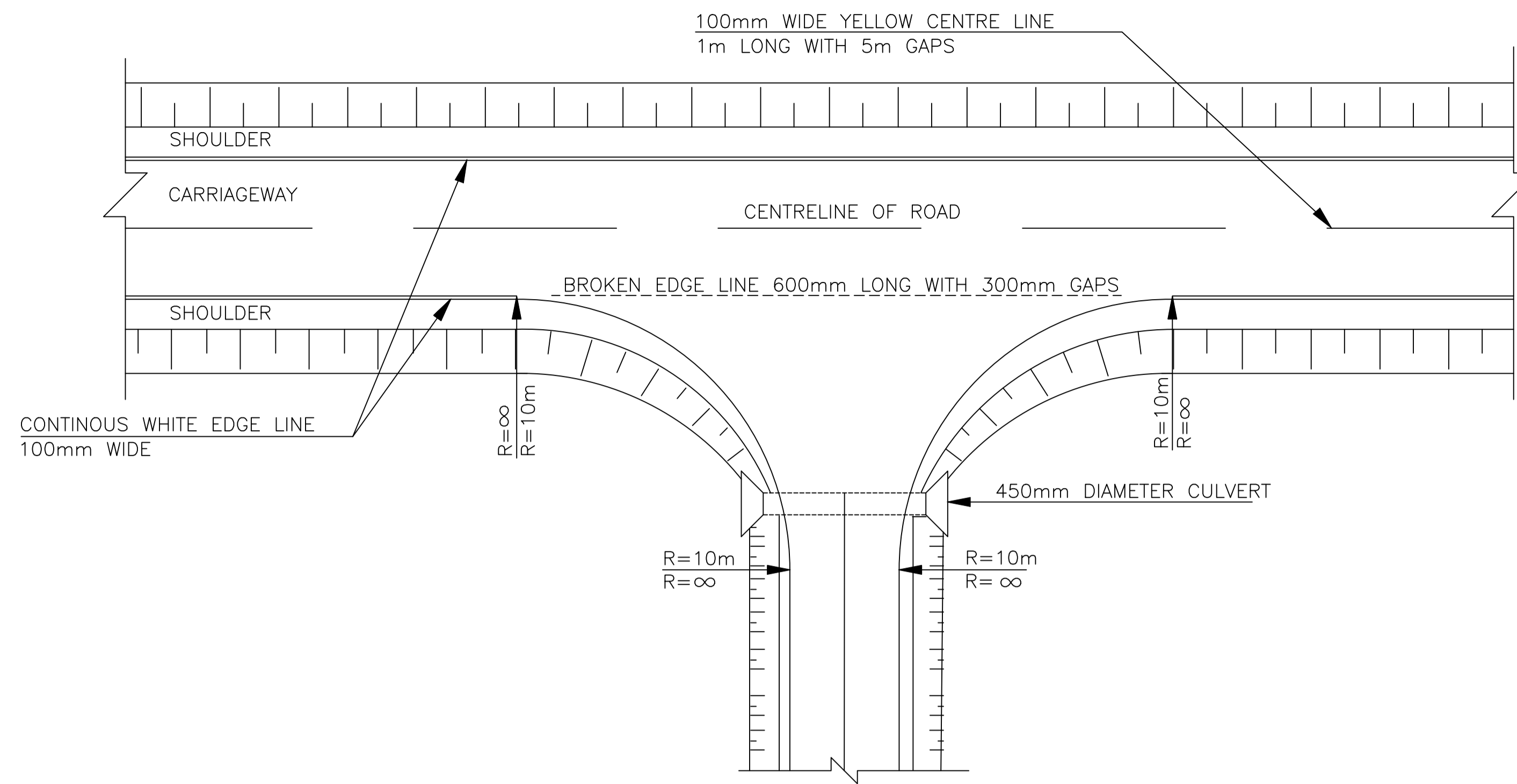
CONSULTANTS
SOBOCON ASSOCIATES LIMITED



REVISIONS-0		
NO.	DATE	DESCRIPTION

DRAWING TITLE:
ELGEYO MARAKWET COUNTY: ROADS & DRAINAGE

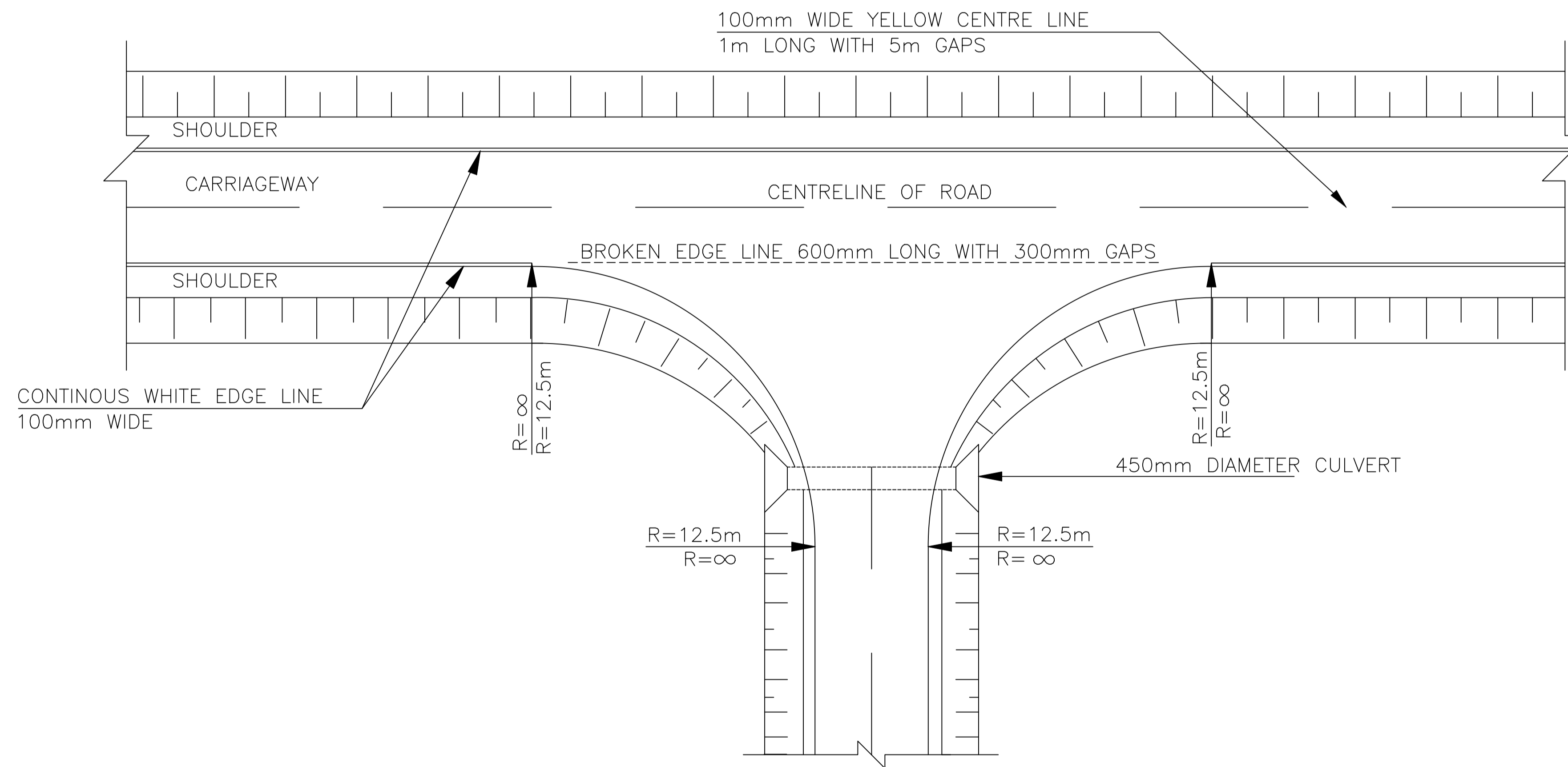
SHEET TITLE: STANDARD DRAWING: TYPICAL MARKER POST DETAILS		DESIGN BY:	R.O
DWG. NO.: KISIP-SAL/ELG/SD/02		DRAWN BY:	S.M
SHEET NO: 24 OF 39		CHECKED BY:	J.O
SCALE: AS SHOWN	STAGE: DETAILED DRAWINGS	APPROVED BY:	B.O
	DATE: DECEMBER 2023		



NOTES:
 1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SHOWN.
 2. THE ACTUAL LOCATION OF PRIVATE ACCESS TO BE AS DIRECTED


JUNCTION A : R=10M

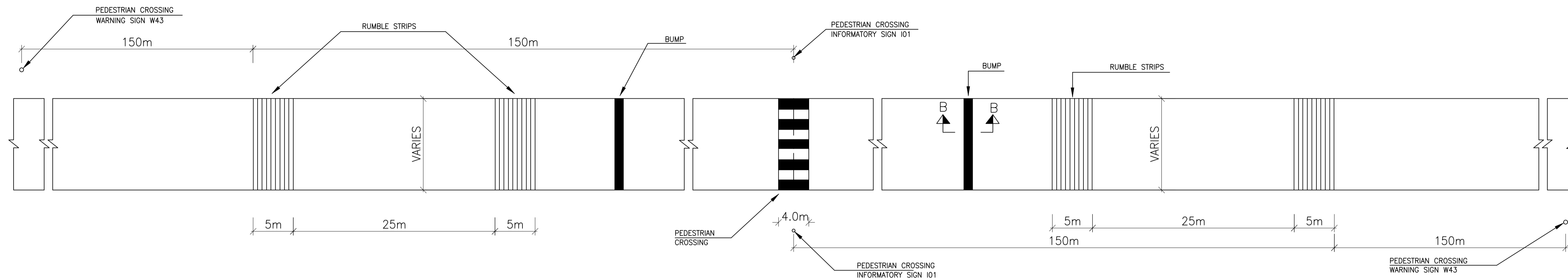
SCALE 1:100



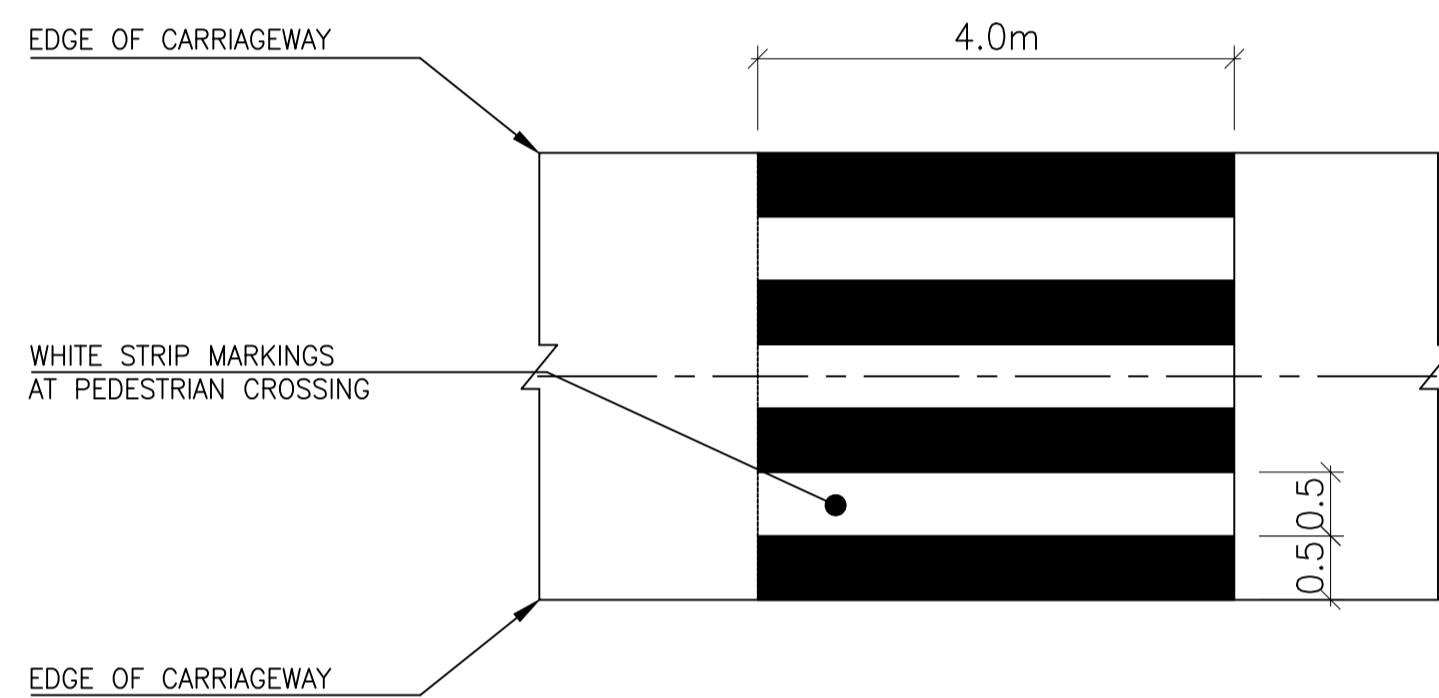
JUNCTION B : R=12.5M

SCALE 1:100

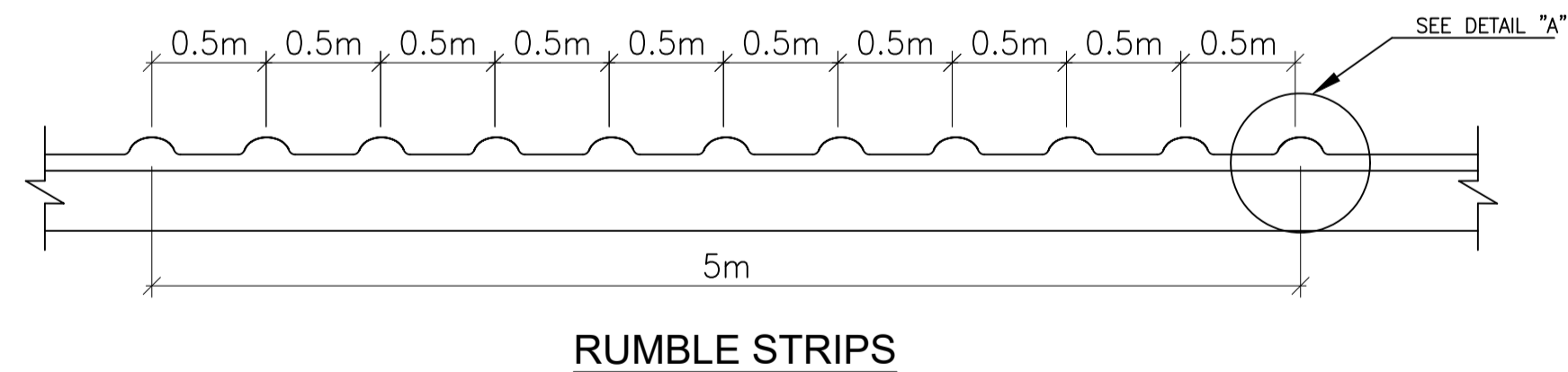
CLIENT DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT; COUNTY GOVERNMENT OF ELGEYO MARAKWET	PROJECT TITLE SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2) ELGEYO MARAKWET COUNTY	CONSULTANTS SOBOCON ASSOCIATES LIMITED 	REVISIONS - 0			DRAWING TITLE: ELGEYO MARAKWET COUNTY: ROADS & DRAINAGE	SHEET TITLE: STANDARD DRAWING: JUNCTION DETAILS		DESIGN BY:	R.O		
			NO.	DATE	DESCRIPTION		DWG. NO.:	KISIP-SAL/ELG/SD/03	DRAWN BY:	S.M		
							SHEET NO.:	25 OF 39	CHECKED BY:	J.O		
							SCALE:	AS SHOWN	STAGE:	DETAILED DRAWINGS	APPROVED BY:	B.O
									DATE:	DECEMBER 2023		



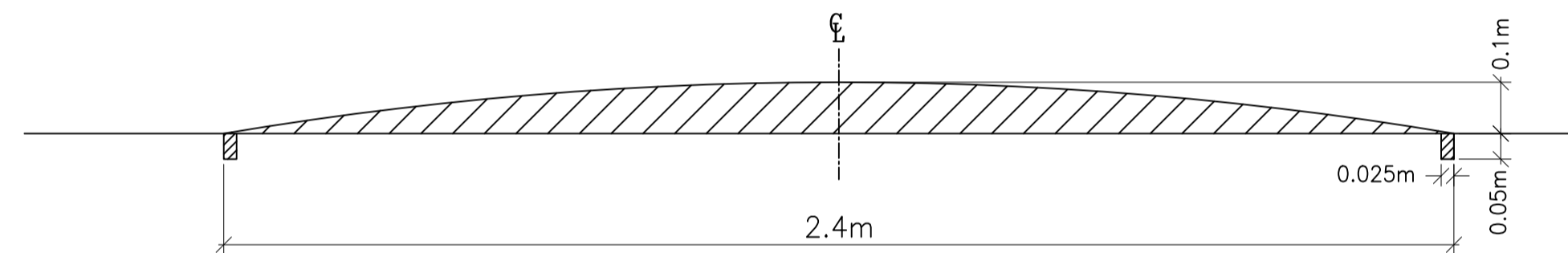
LAYOUT PLAN : RAISED PEDESTRIAN CROSSING
SCALE 1:150



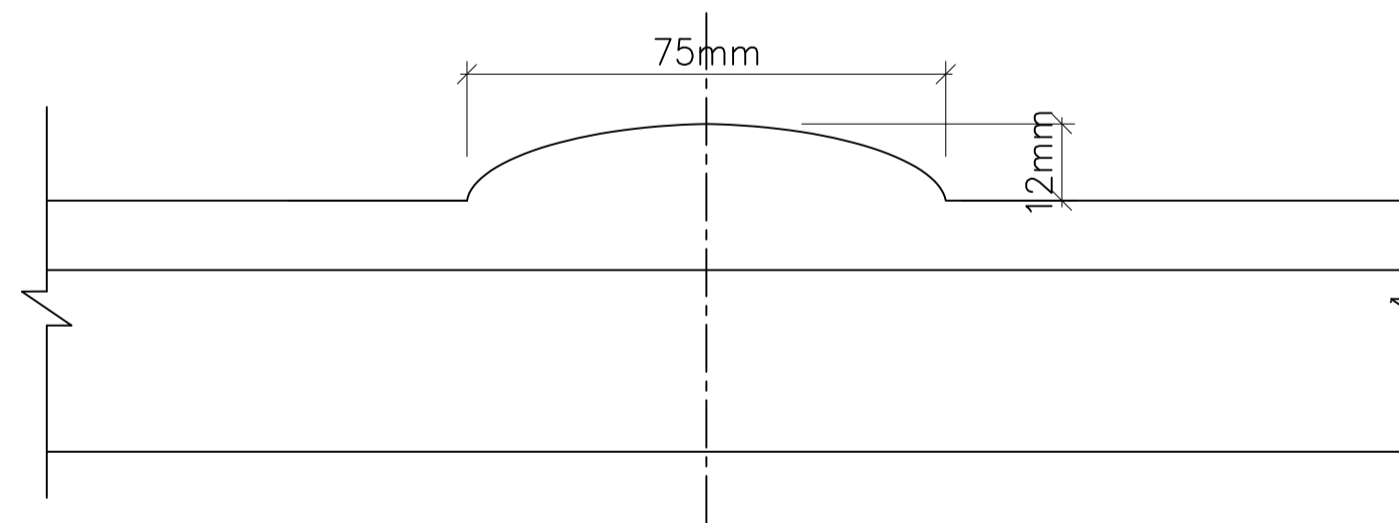
ROAD MARKING FOR PEDESTRIAN CROSSING
SCALE 1:20



RUMBLE STRIPS




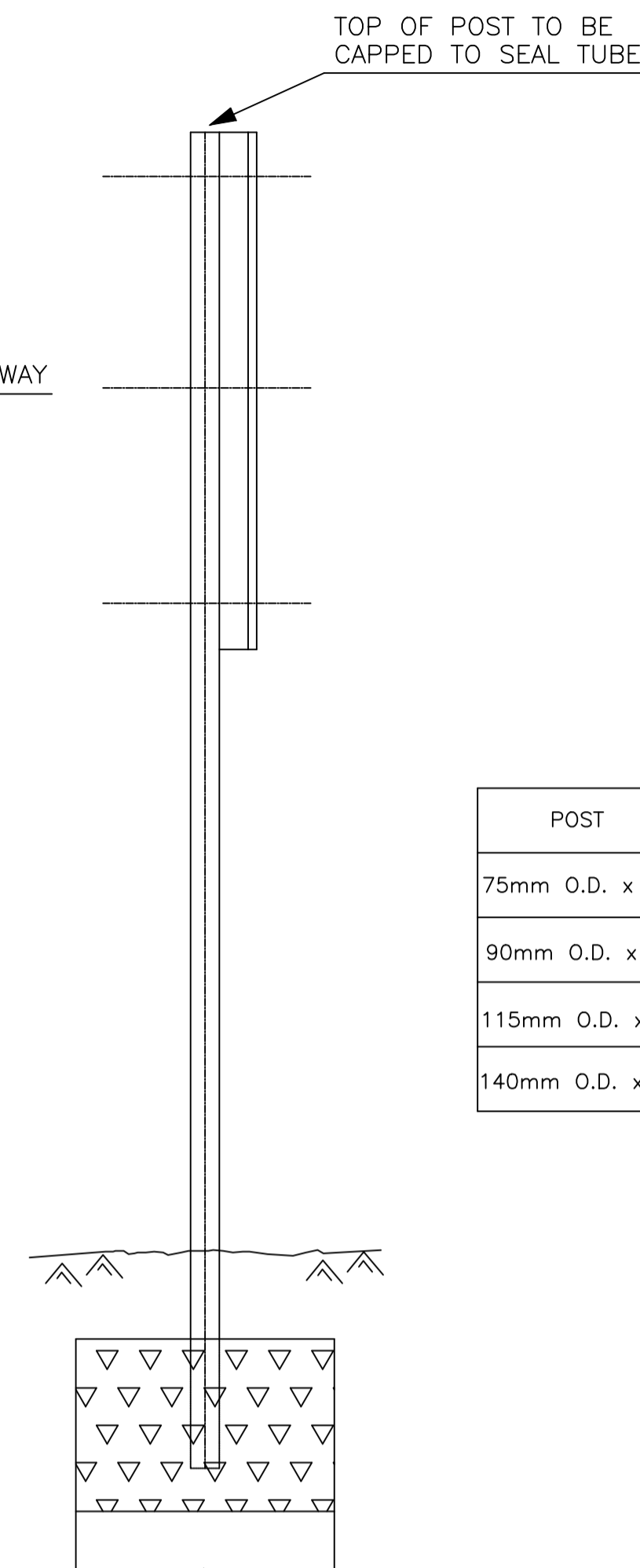
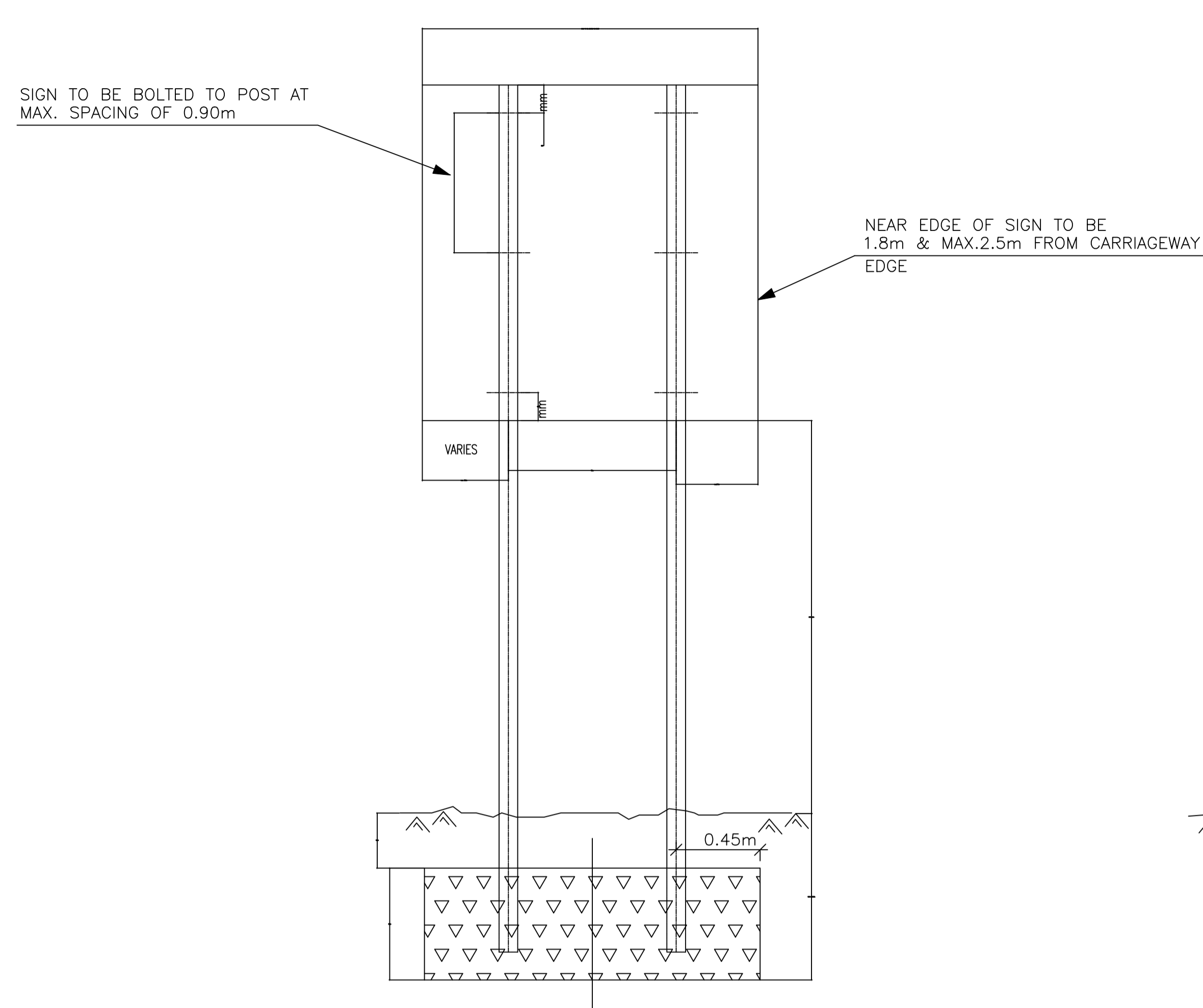
SECTION B-B
BUMP CROSSING DETAILS
SCALE 1:5



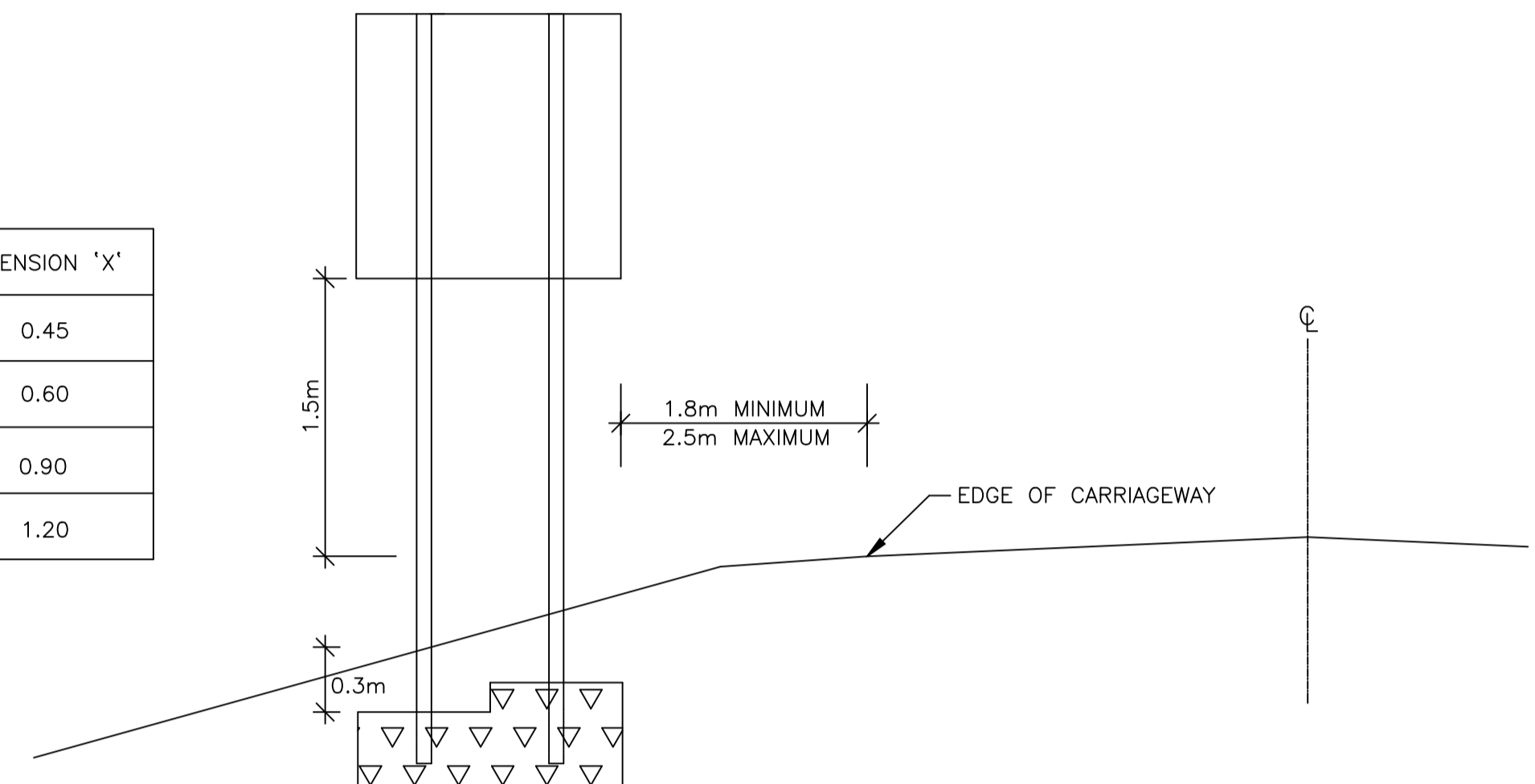
NOTES:

1. ALL UNITS ARE IN METRES UNLESS STATED OTHERWISE.
2. BUMP CROSSING TO BE CONSTRUCTED USING ASPHALT CONCRETE OR COLD PREMIX.
3. PEDESTRIAN CROSSING MARKINGS TO BE 0.5m WIDE STRIPS, 3.7m LONG AS SHOWN.
4. PEDESTRIAN CROSSING WARNING SIGNS SHALL BE INSTALLED 300m IN ADVANCE OF THE CROSSING AND INFORMATORY SIGN SHALL BE INSTALLED AT THE CROSSING ON EITHER SIDE.
5. TWO SETS OF RUMBLE STRIPS SHALL BE CONSTRUCTED ON EITHER SIDE OF THE RAISED CROSSING.
6. LOCATION FOR PEDESTRIAN CROSSING TO BE DETERMINED ON SITE.

CLIENT DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT; COUNTY GOVERNMENT OF ELGEYO MARAKWET	PROJECT TITLE SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2) ELGEYO MARAKWET COUNTY	CONSULTANTS SOBOCON ASSOCIATES LIMITED 	REVISIONS-0			DRAWING TITLE: ELGEYO MARAKWET COUNTY:ROADS &DRAINAGE	SHEET TITLE: STANDARD DRAWING: TYPICAL SAFETY DETAILS		DESIGN BY: R.O	
			NO.	DATE	DESCRIPTION		DWG. NO.:KISIP-SAL/ELG/SD/04	DRAWN BY: S.M		
								SHEET NO: 26 OF 39	CHECKED BY: J.O	
								SCALE: AS SHOWN	STAGE DETAILED DRAWINGS	APPROVED BY: B.O



POST	DIMENSION 'X'
75mm O.D. x 10G	0.45
90mm O.D. x 8G	0.60
115mm O.D. x 7G	0.90
140mm O.D. x 5G	1.20

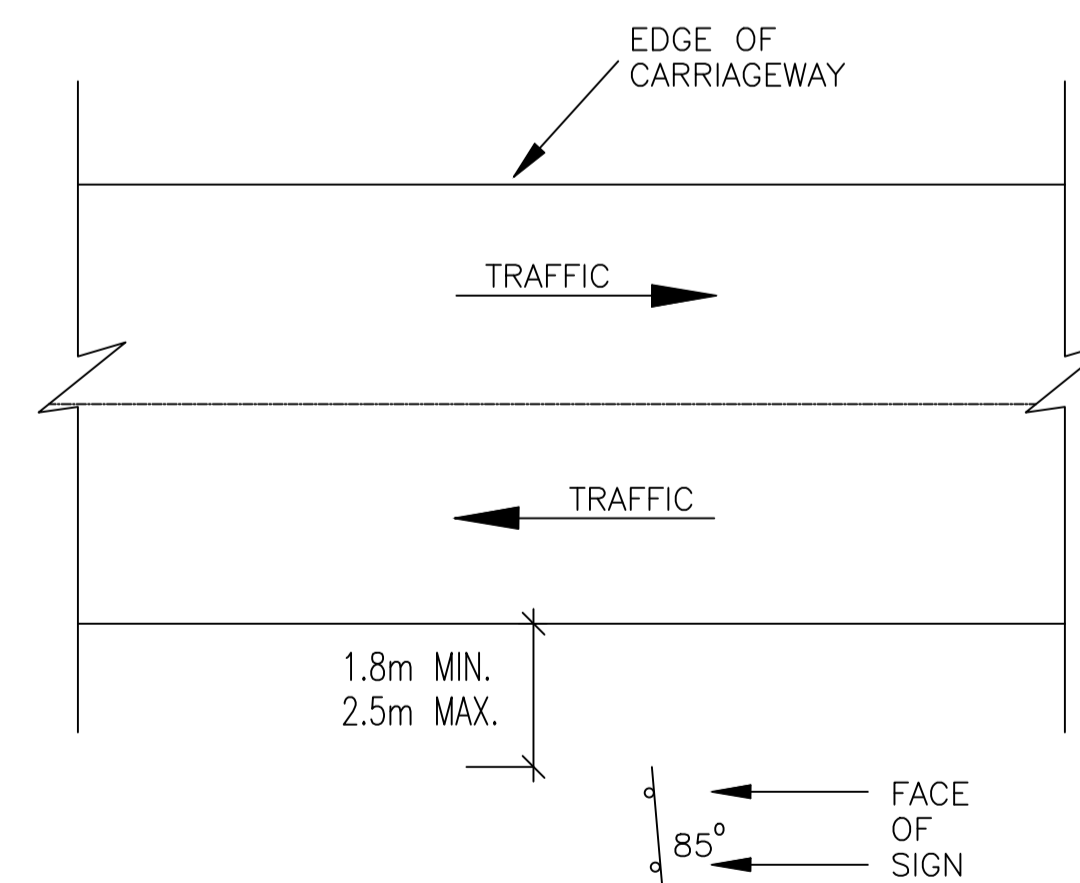
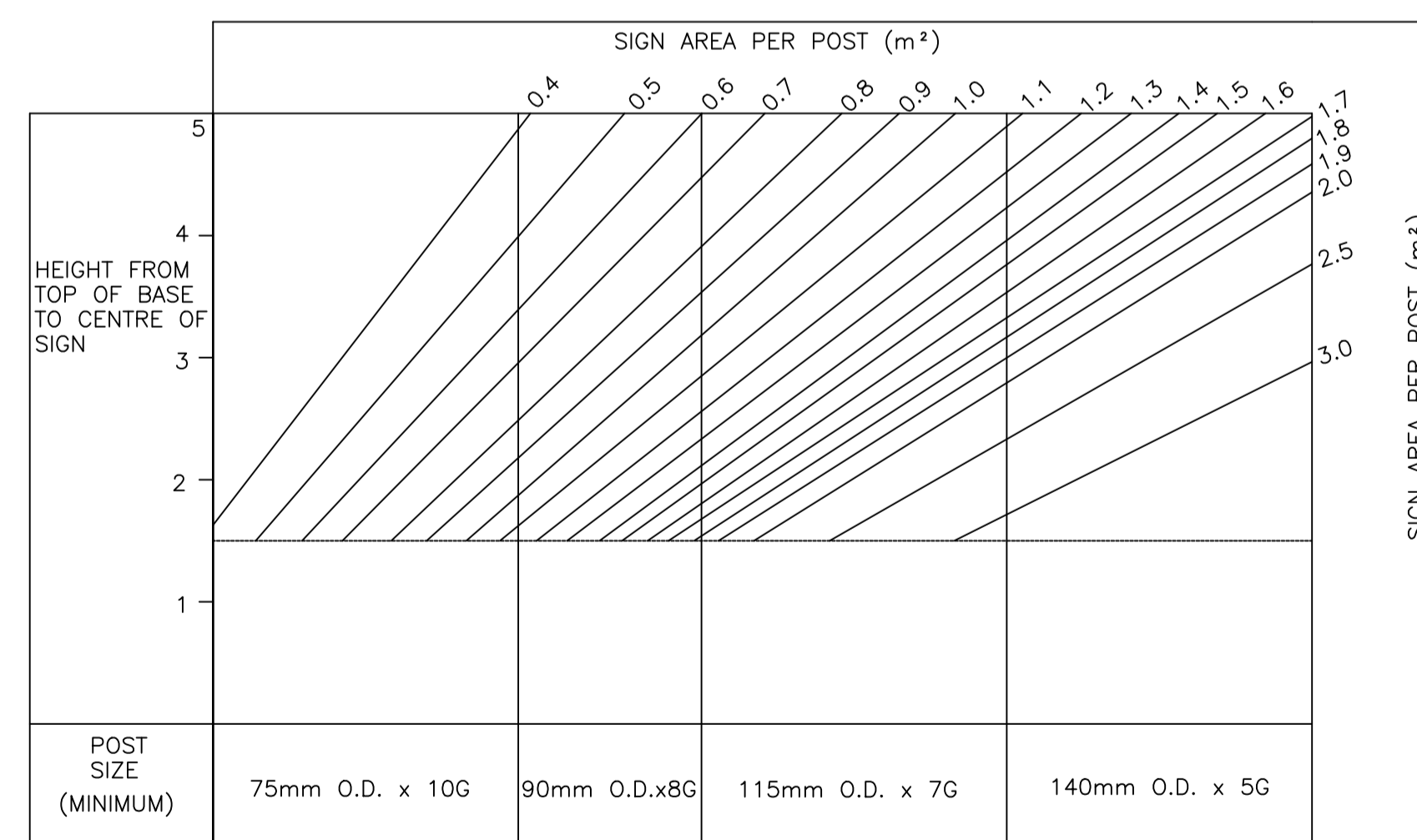


SIGN PLACEMENT

SCALE 1:50

STANDARD SIGN POST DETAILS

SCALE 1:20



PLAN

NOTES:

- WHERE POSTS ARE ON DIFFERENT LENGTH, FOOTING TO BE STEPPED AT POINT MIDWAY BETWEEN POSTS TO GIVE 0.3m COVER OF SOIL AT POST
- FOOTING TO BE CLASS 15 CONCRETE
- FOR A SINGLE POST THE SIZE IN THE CONCRETE FOOTING WILL BE 0.9m x 0.6m x'X'm
- FOR PROHIBITORY, WARNING, MANDATORY AND PRIORITY SIGNS THE SIZE OF THE CONCRETE FOOTING WILL BE 0.45m x 0.45m
- SIGN POST SHALL BE CYLINDRICAL, GALVANIZED WROUGHT IRON TUBES OR SIMILAR APPROVED BY THE ENGINEER, OF SIZES IN ACCORDANCE WITH THE DESIGN TABLE BELOW

CLIENT
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT;
COUNTY GOVERNMENT OF ELGEYO MARAKWET

PROJECT TITLE
SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2)
ELGEYO MARAKWET COUNTY

CONSULTANTS
SOBOCON ASSOCIATES LIMITED



REVISIONS-0

NO.	DATE	DESCRIPTION

DRAWING TITLE:
ELGEYO MARAKWET COUNTY: ROADS & DRAINAGE

SHEET TITLE: STANDARD DRAWING: TYPICAL TRAFFIC SIGN FIXING DETAILS

DWG. NO.: KISIP-SAL/ELG/SD/05

SHEET NO: 27 OF 39

SCALE: AS SHOWN

STAGE: DETAILED DRAWINGS

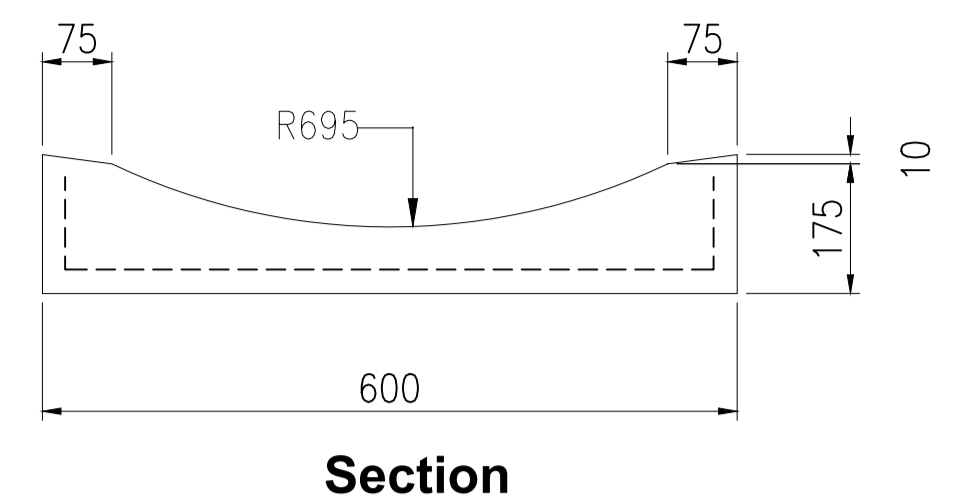
DATE: DECEMBER 2023

DESIGN BY: R.O

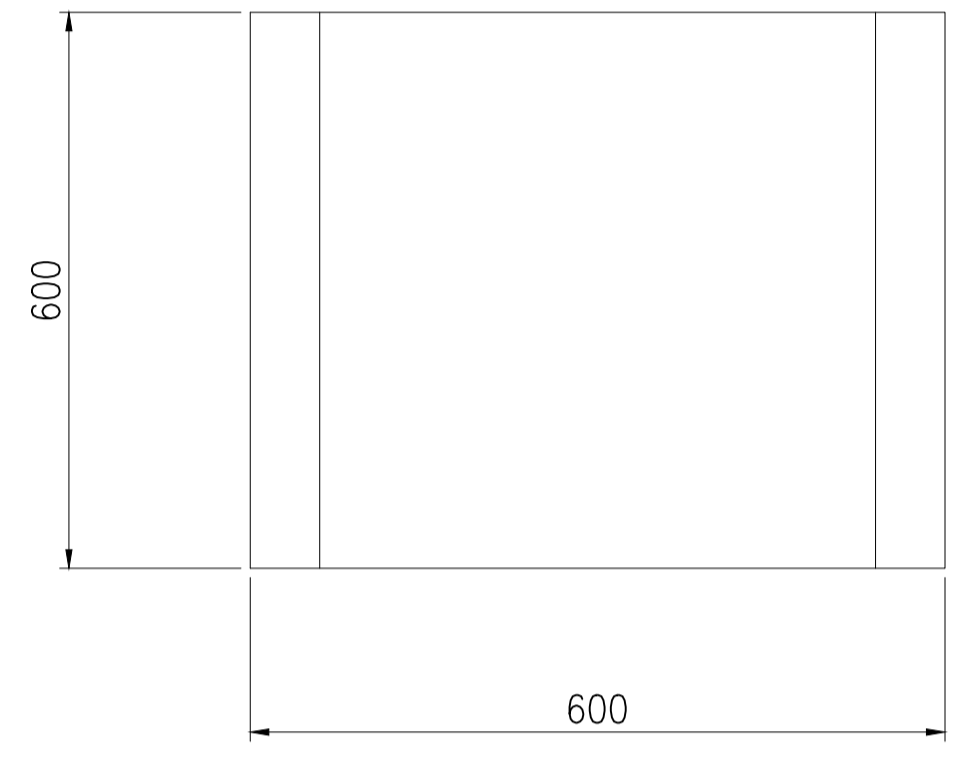
DRAWN BY: S.M

CHECKED BY: J.O

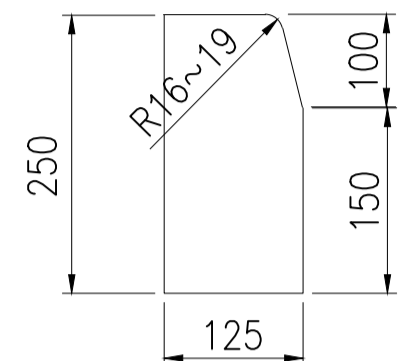
APPROVED BY: B.O



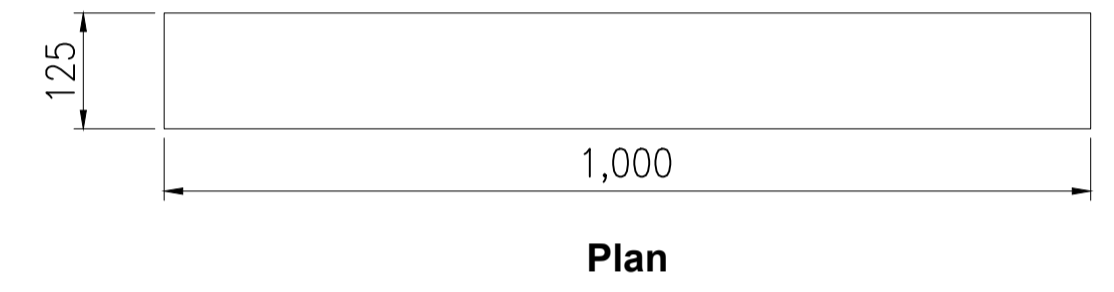
Section



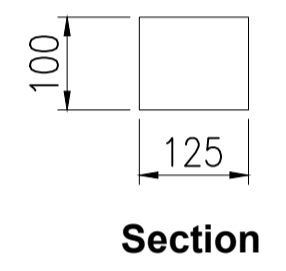
Plan
DISHED CHANNEL



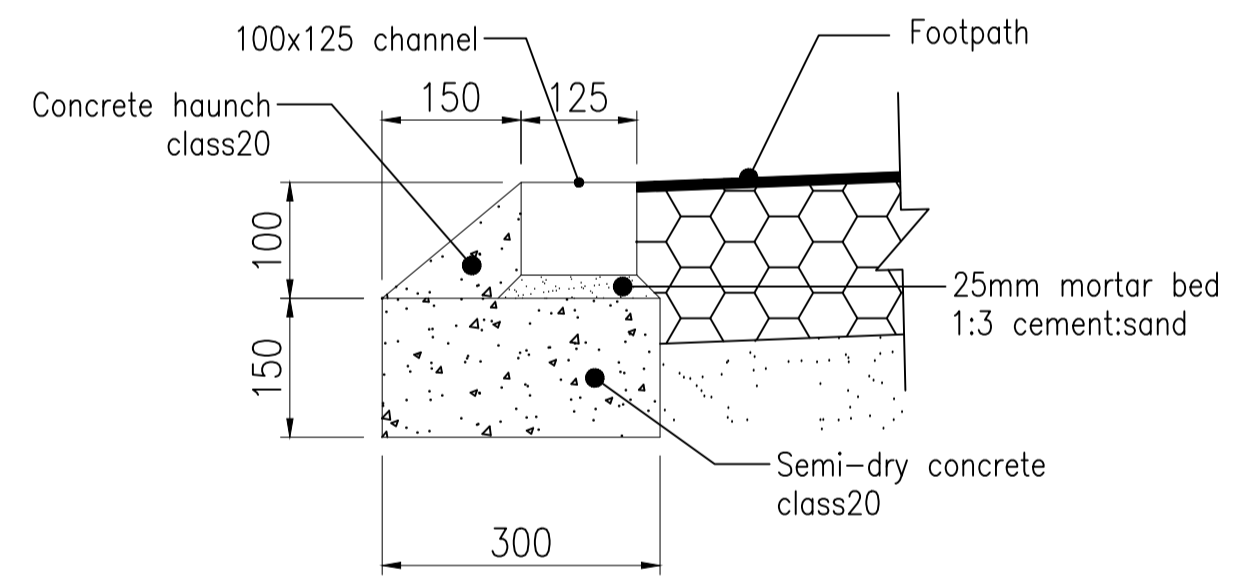
HALF BATTERED KERB



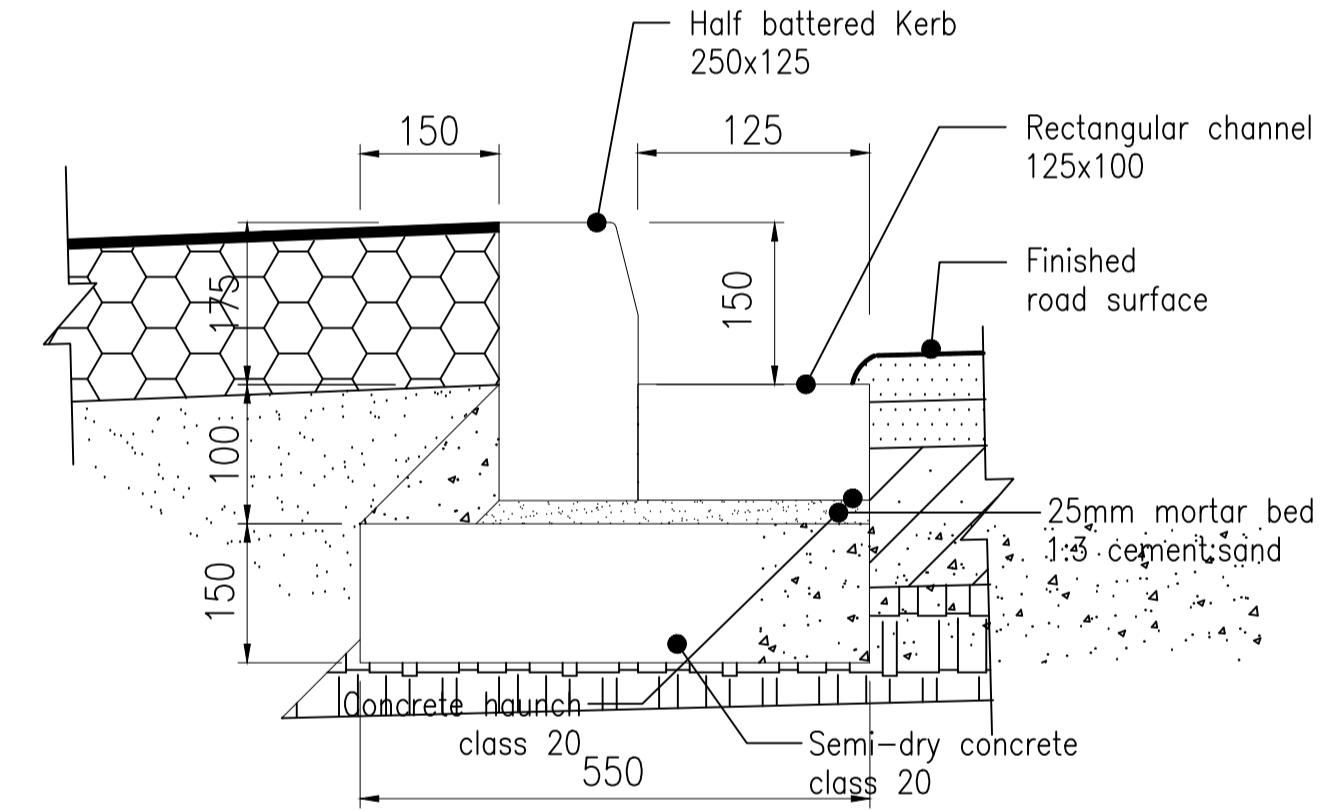
Plan
RECTANGULAR CHANNEL



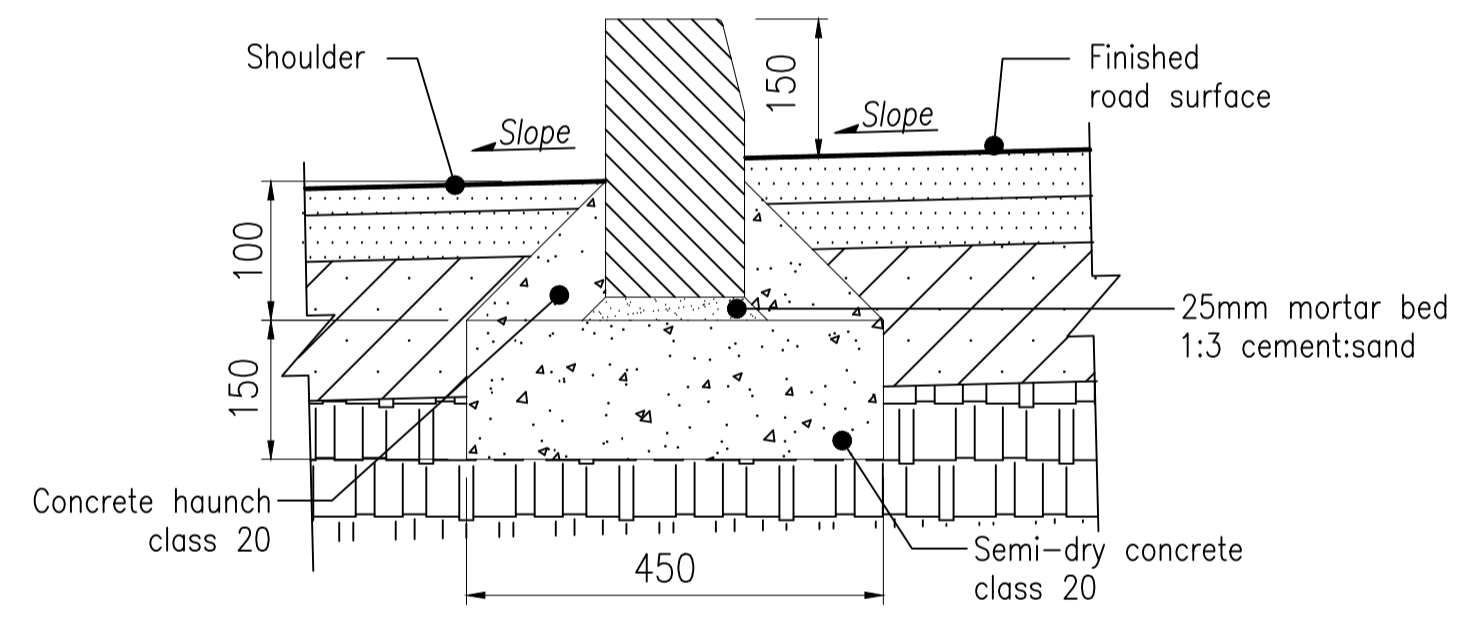
Section



**TYPICAL BEDDING AND BACKING
DETAIL FOR CHANNELBLOCK**




**TYPICAL BEDDING AND BACKING
DETAIL FOR KERB - ONE SIDE
RAISED FOOTPATH**

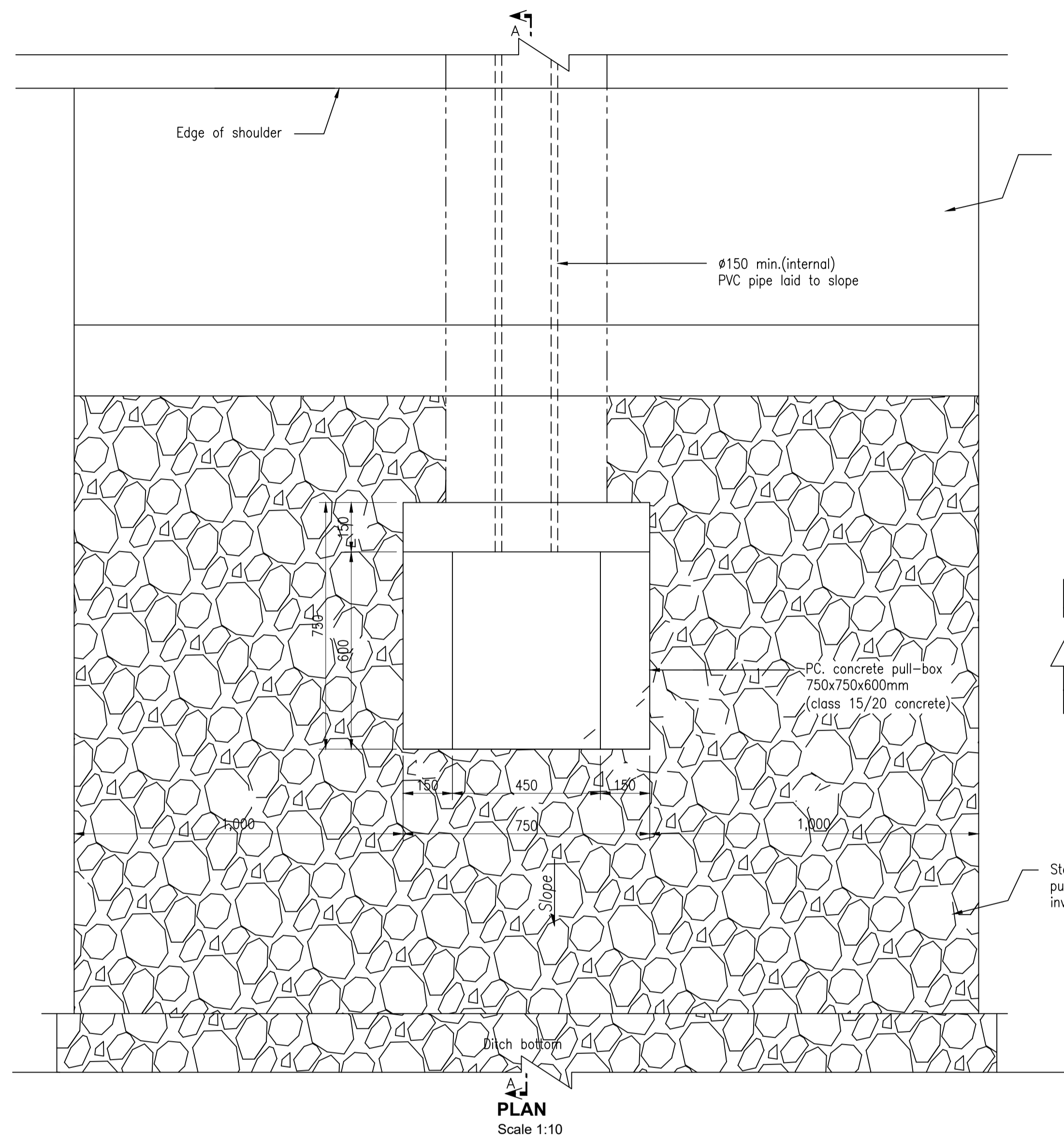


**TYPICAL BEDDING AND BACKING
DETAIL FOR KERB AT BUS STOP**

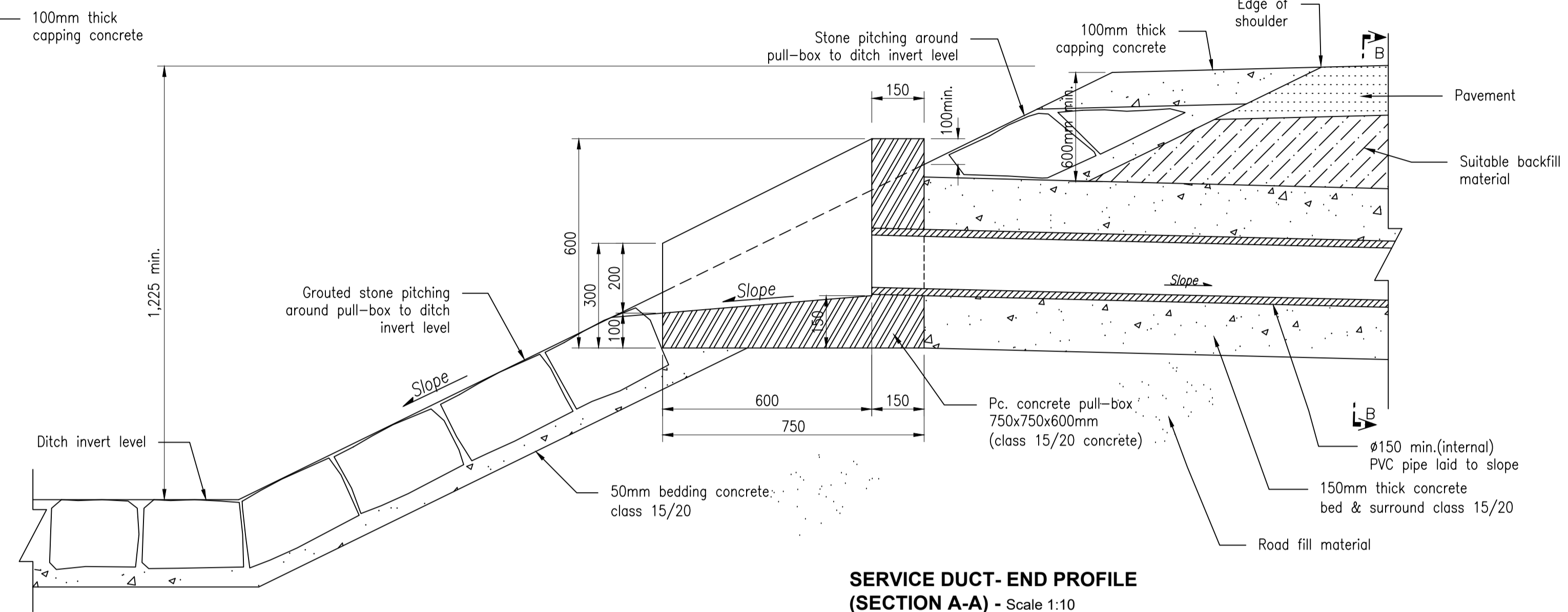
Notes:

(1). Dimensions are in millimetres, unless otherwise indicated.

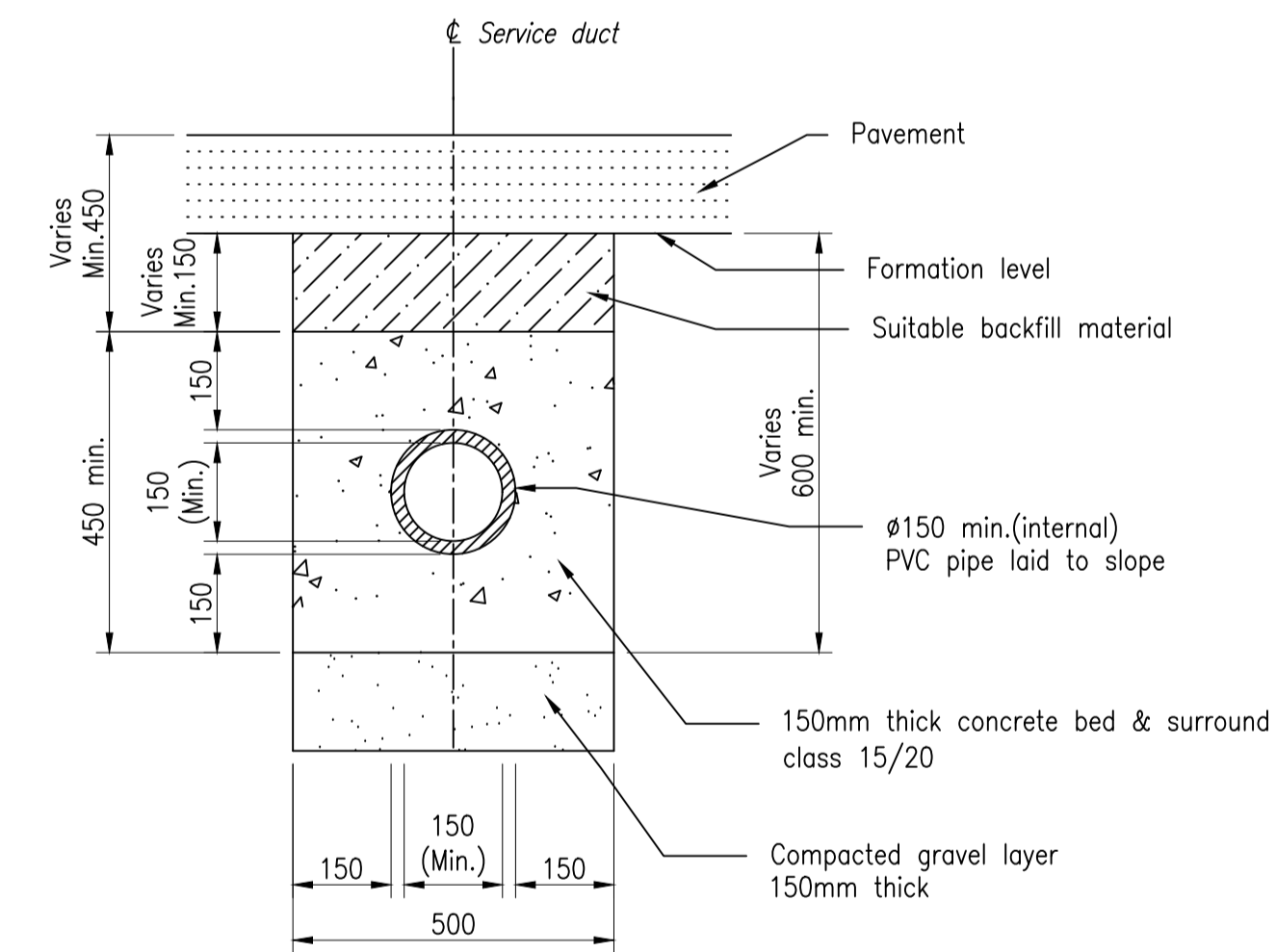
CLIENT DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT; COUNTY GOVERNMENT OF ELGEYO MARAKET	PROJECT TITLE SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2) ELGEYO MARAKET COUNTY	CONSULTANTS SOBOCON ASSOCIATES LIMITED 	REVISIONS-0			DRAWING TITLE: ELGEYO MARAKET COUNTY: ROADS & DRAINAGE	SHEET TITLE: STANDARD DRAWING: CHANNEL DETAILS		DESIGN BY: R.O
			NO.	DATE	DESCRIPTION		DWG. NO.: KISIP-SAL/ELG/SD/06	DRAWN BY: S.M	
							SHEET NO: 28 OF 73	CHECKED BY: J.O	
							SCALE: AS SHOWN	STAGE: DETAILED DRAWINGS	APPROVED BY: B.O
								DATE: DECEMBER 2023	



PLAN
Scale 1:10



SERVICE DUCT- END PROFILE (SECTION A-A) - Scale 1:10



SECTION ACROSS SERVICE DUCT (SECTION B-B)
Scale 1:10

NOTES:

1. All dimensions in millimetres.
2. Location of service ducts to be determined and directed on site by the Resident Engineer.

CLIENT
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT;
COUNTY GOVERNMENT OF ELGEYO MARAKWET

PROJECT TITLE
SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP)
ELGEYO MARAKET COUNTY

CONSULTANTS
SOBOCON ASSOCIATES LIMITED



REVISIONS-0

NO.	DATE	DESCRIPTION

DRAWING TITLE:
ELGEYO MARAKET COUNTY:
ROADS & DRAINAGE

SHEET TITLE: STANDARD DRAWING:
TYPICAL SERVICE DUCT DETAILS

DWG. NO.: KISIP-SAL/ELG/SD/07

SHEET NO: 29 OF 39

SCALE: AS SHOWN

DATE: DECEMBER 2023

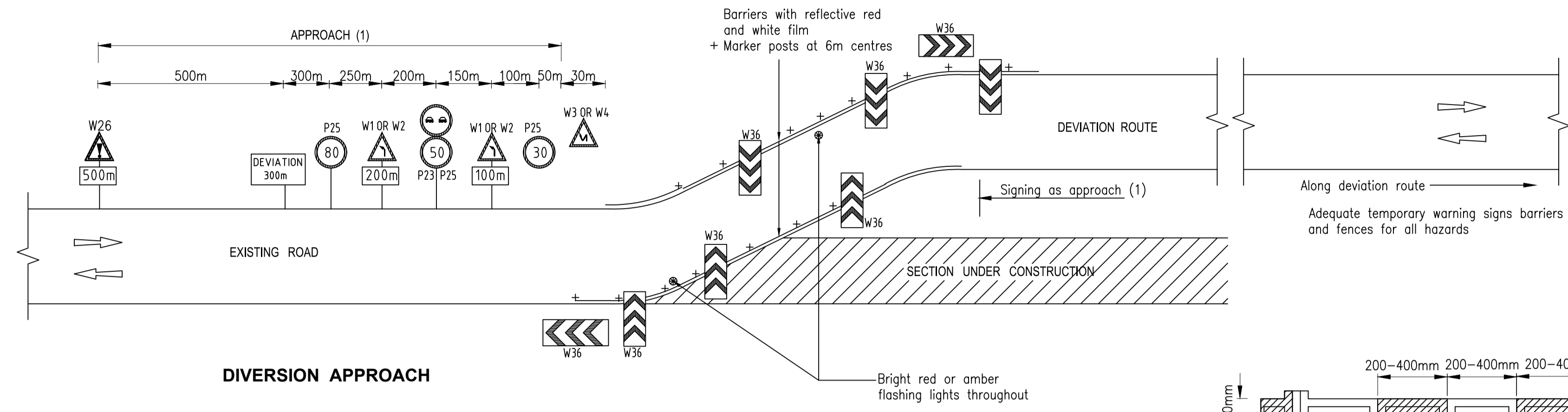
STAGE : DETAILED DRAWINGS:

DESIGN BY: R.O

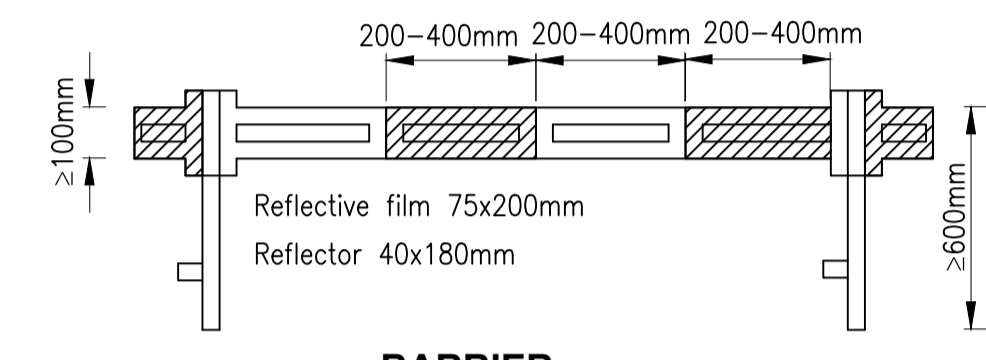
DRAWN BY: S.M

CHECKED BY: J.O

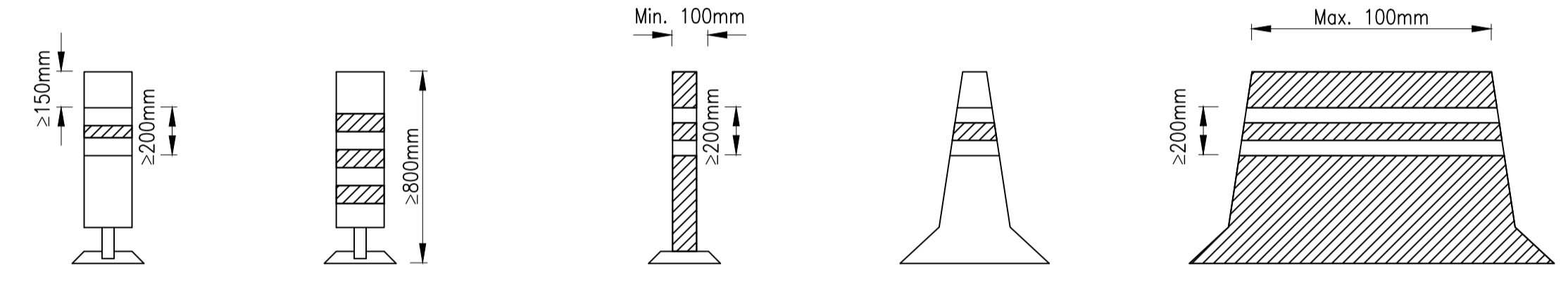
APPROVED BY: B.O



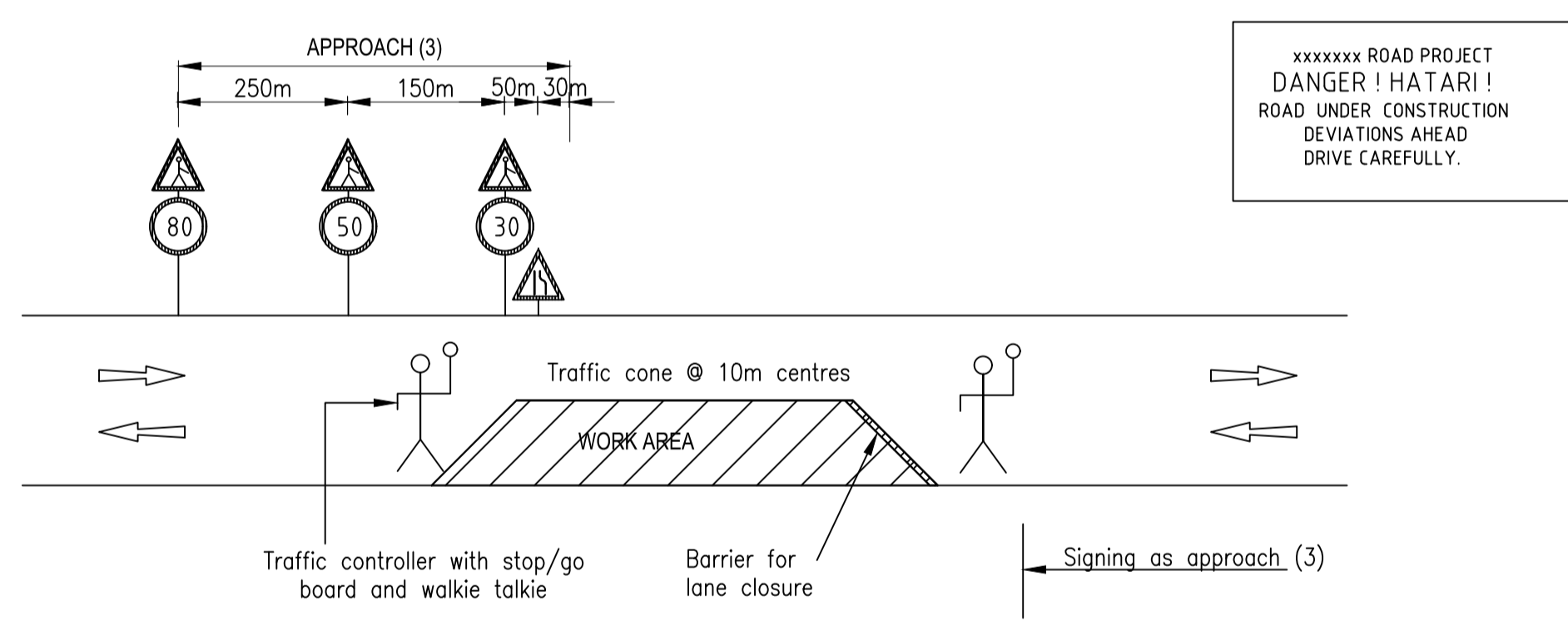
DIVERSION APPROACH



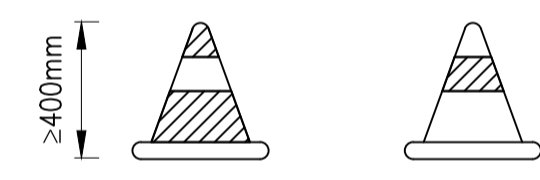
BARRIER



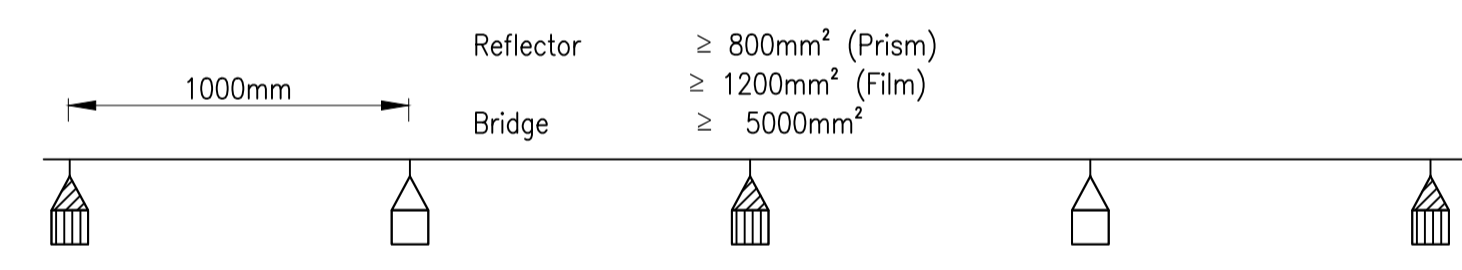
SAFETY POST



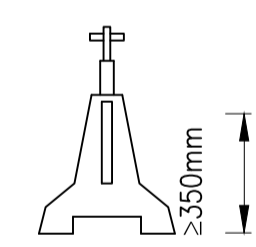
TEMPORARY LANE CLOSURES



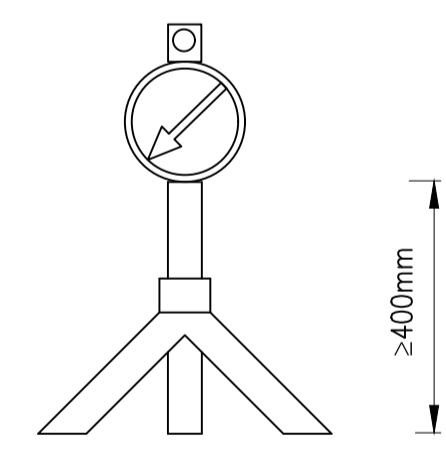
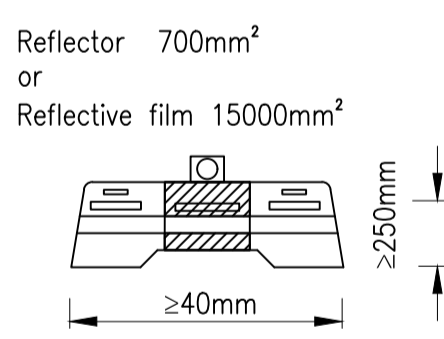
TRAFFIC CONE



**WARNING ROPE
(BETWEEN SAFETY POSTS)**




CONCRETE SIGN BASE



SIGN ON TRIPOD

TYPES OF BARRIERS

- NOTES:**
- All temporary signs must be retro-reflective
 - Numbers, lettering and colours to be in accordance with the Manual of Traffic Signs in Kenya Part II (JUNE 1975)
 - Marker posts to be unbreakable plastic or glass fibre vergemaster or similar
 - All signs must be kept clean and visible at all times.
 - Sketches shown on this drawing are the minimum requirements, signs may be varied or adjusted as directed by the Resident Engineer to suit each particular site
 - Fences and barriers shall be provided as directed by the Resident Engineer to separate pedestrians and traffic where they will need to use road or deviation for access
 - All works and temporary signs are to comply with the requirements of Section 9 of the Standard Specification

CLIENT DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT; COUNTY GOVERNMENT OF ELGEYO MARAKET	PROJECT TITLE SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2) ELGEYO MARAKET COUNTY	CONSULTANTS SOBOCON ASSOCIATES LIMITED 	REVISIONS-0			DRAWING TITLE: ELGEYO MARAKET COUNTY: ROADS & DRAINAGE	SHEET TITLE: STANDARD DRAWING: SIGNAGE FOR DEVIATION		DESIGN BY: R.O
			NO.	DATE	DESCRIPTION		DWG. NO.: KISIP-SAL/ELG/SD/08	DRAWN BY: S.M	
						SHEET NO: 30 OF 39	STAGE: DETAILED DRAWINGS	CHECKED BY: J.O	
						SCALE: AS SHOWN	DATE: DECEMBER 2023	APPROVED BY: B.O	

	W.1 Sharp left-hand bend ahead		W.19 Children crossing ahead		W.33 Distance indicators
	W.2 Sharp right-hand bend ahead		W.19 Section of road ahead frequented by cyclists		W.34 Location of rail crossing without barrier
	W.3 Sharp bends ahead, the first one to the left		W.20 Cattle crossing ahead		W.35 Location of rail crossing with at least two tracks
	W.4 Sharp bends ahead, the first one to the right		W.21 Section of road ahead frequented by wild animals		W.36 Arrow direction marking showing extremely dangerous change of direction
	W.5 Steep descent ahead		W.22 Road works in progress ahead		W.37 Exit from main road
	W.6 Steep ascent ahead		W.23 Traffic light signals ahead		W.38 Hazard demarcation
	W.7 Road narrows ahead		W.24 Low-flying aircraft crossing ahead		
	W.8 Road narrows (from right) ahead		W.25 Two-way traffic ahead		
	W.9 Road narrows (from left) ahead		W.26 Hazard ahead		
	W.10 River bank or quayside (without barrier) ahead		W.27 Road junction ahead		
	W.11 Uneven road surface ahead		W.28 Junction ahead, stop or give way		
	W.12 Severe bump ahead		W.28 Junction ahead with acceleration lane of a road from the right		
	W.13 Severe dip ahead		W.28 Junction ahead with acceleration lane of a road from the left		
	W.14 River-bend crossing (drift) ahead		W.29 Junction ahead with acceleration lane of a road from the left		
	W.15 Slippery road surface ahead		W.29 Junction ahead with acceleration lane of a road from the right		
	W.16 Road surface of loose stones ahead		W.30 Roundabout ahead		
	W.17 Danger of falling and fallen rocks ahead		W.31 Railway crossing with barrier		
	W.18 Crossing for pedestrian ahead		W.32 Railway crossing without barrier		

WARNING SIGNS

	R.1 STOP and do not proceed into the junction unless it is possible to do so without causing danger or inconvenience to any other vehicle		R.2 GIVE WAY and if traffic is approaching from the right the left stop unless it is possible to proceed without causing danger or inconvenience to such traffic
--	---	--	--

PRIORITY SIGNS

	M.1 Requires all vehicles to turn to the left (The direction of the arrow may be reversed)		M.5 Requires all vehicles to pass to the right of the sign
	M.2 Requires all vehicles to travel straight ahead		M.6 Requires all vehicles to travel roundabout in direction indicated by arrows
	M.3 Requires all vehicles to turn to the right at the next junction		M.7 Compulsory cycle track
	M.4 Requires all vehicles either to travel straight or to turn to the left at the next junction		M.11 Compulsory minimum speed
	M.5 Requires all vehicles to pass to the left of the sign		M.12 End of compulsory minimum speed

MANDATORY SIGNS

	I.25 Toilets		I.34 No through road		I.43 Pass either side
	I.26 Parking place		I.36 In		I.45 First Aid Station
	I.30 Pedestrian crossing		I.37 Out		I.58 Ferry
	I.32 One way traffic		I.38 No Entry		S.2 Lifesaver
	I.33 One way traffic		I.39 No Exit		S.3 Chevrons
	I.35 Taxi				

STANDARD INFORMATORY SIGNS

	P.1 NO ENTRY. Entry forbidden to all vehicles		P.15 No entry for vehicles exceeding height shown		P.21 No right turn		P.27 Stop: Children crossing
	P.2 ROAD CLOSED. Entry forbidden to all vehicles		P.16 No entry for vehicles exceeding weight on one axle		P.22 No U-turn		P.28 Priority for on-coming traffic
	P.3 Entry forbidden to all bicycles		P.17 No entry for exceeding weight on one axle		P.23 Overtaking of four wheeled vehicles prohibited		P.29 End of all prohibitions
	P.4 No entry for pedestrians		P.18 No entry for exceeding length shown		P.24 Overtaking of goods vehicles prohibited		P.30 End of speed limit
	P.5 No entry for hand carts		P.19 Driving vehicles less than distance shown apart prohibited		P.25 Speed limit		P.32 Parking prohibited
	P.6 No entry for farm vehicles		P.20 No left turn		P.26 Sounding of horns or sirens prohibited		P.33 Parking or waiting prohibited
	P.7 No entry for heavy commercial vehicles		P.27 Stop at control post		P.39 Controlled parking zone		

PROHIBITORY SIGNS

KEY

BLUE	
BLACK	
RED	
WHITE	
YELLOW	
GREEN	

CLIENT
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT; COUNTY GOVERNMENT OF ELGEYO MARAKET

PROJECT TITLE
SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2)
ELGEYO MARAKET COUNTY

CONSULTANTS
SOBOCON ASSOCIATES LIMITED



REVISIONS-0

NO.	DATE	DESCRIPTION

DRAWING TITLE:
ELGEYO MARAKET COUNTY: ROADS & DRAINAGE

SHEET TITLE: STANDARD DRAWINGS: ROAD SIGNAGE

DWG. NO.: KISIP-SAL/ELG/SD/09

SHEET NO: 31 OF 39

SCALE: AS SHOWN

STAGE: DETAILED DESIGN

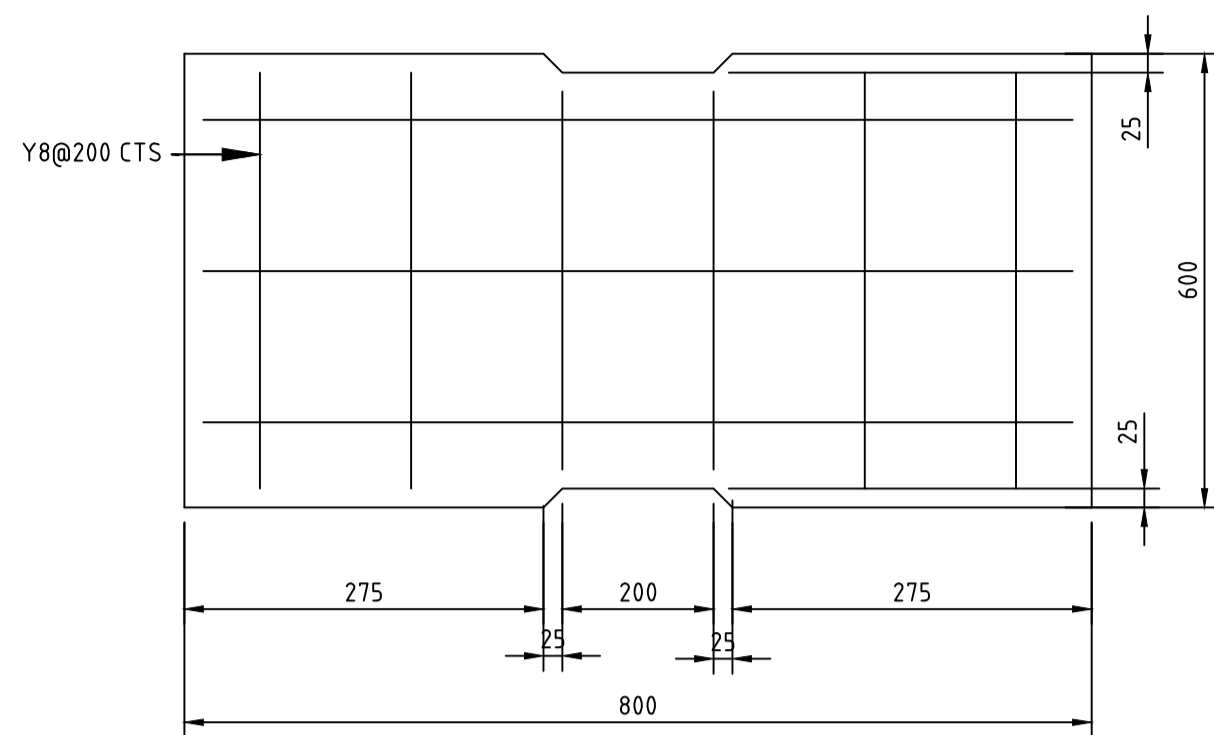
DATE: OCTOBER 2023

DESIGN BY: R.O

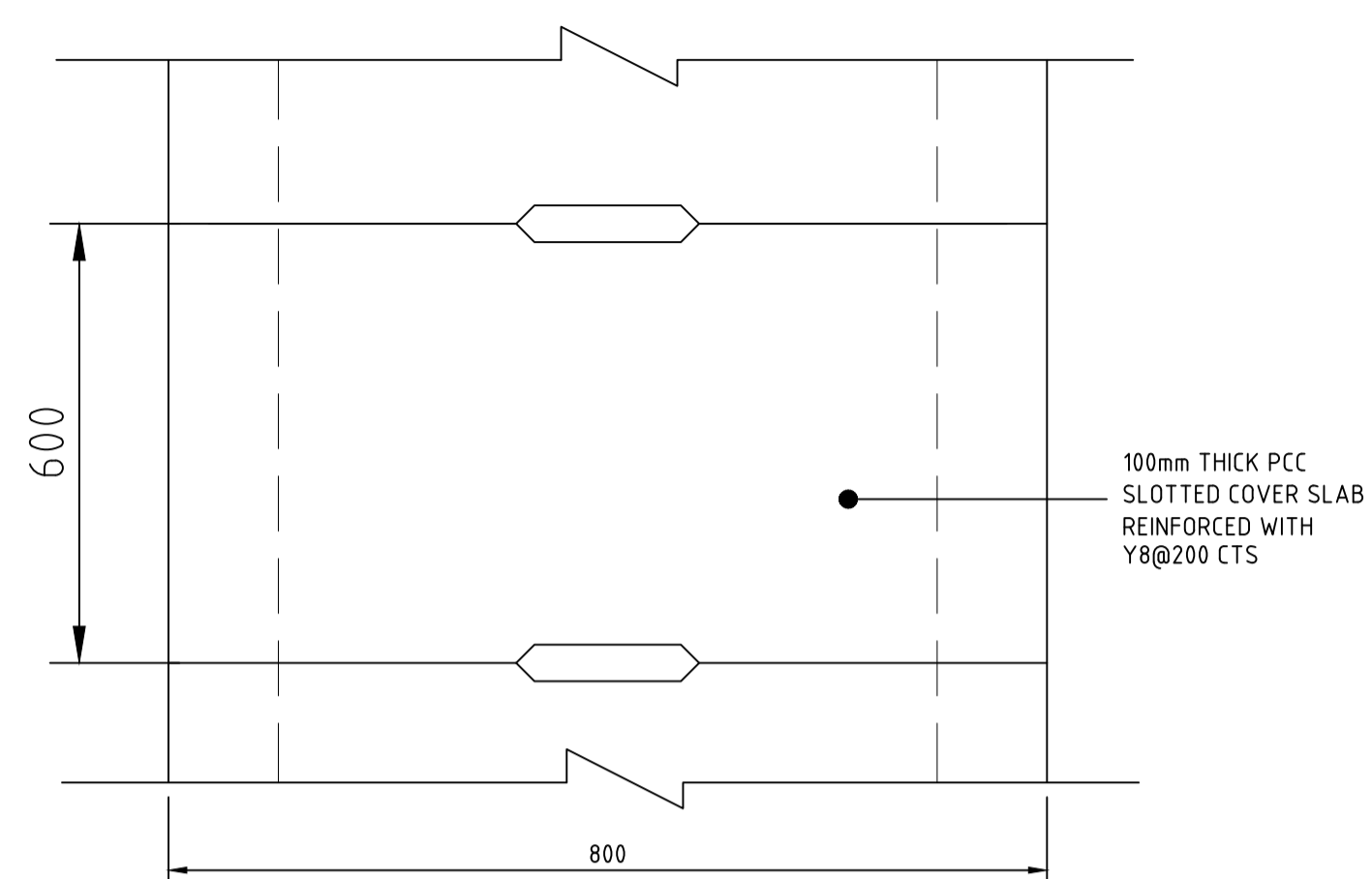
DRAWN BY: S.M

CHECKED BY: J.O

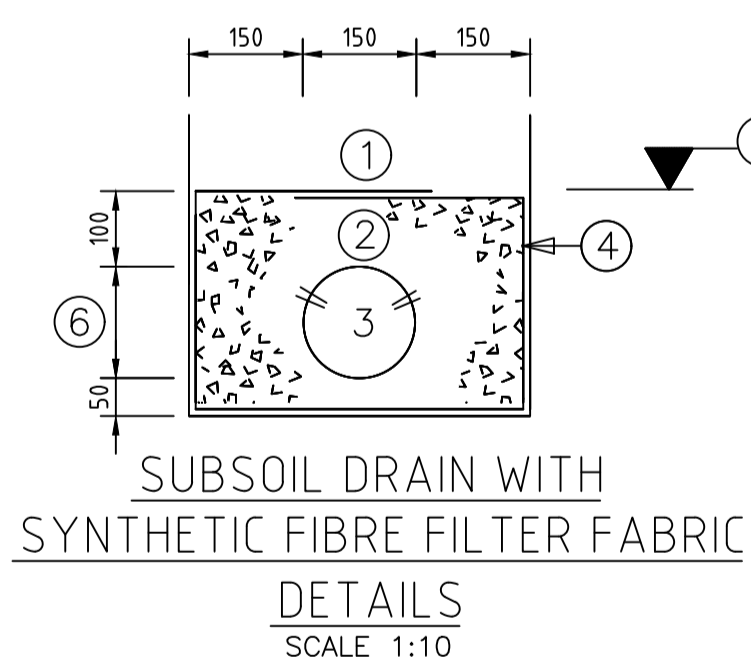
APPROVED BY: B.O



SECTION THROUGH COVER SLAB
SCALE 1:10

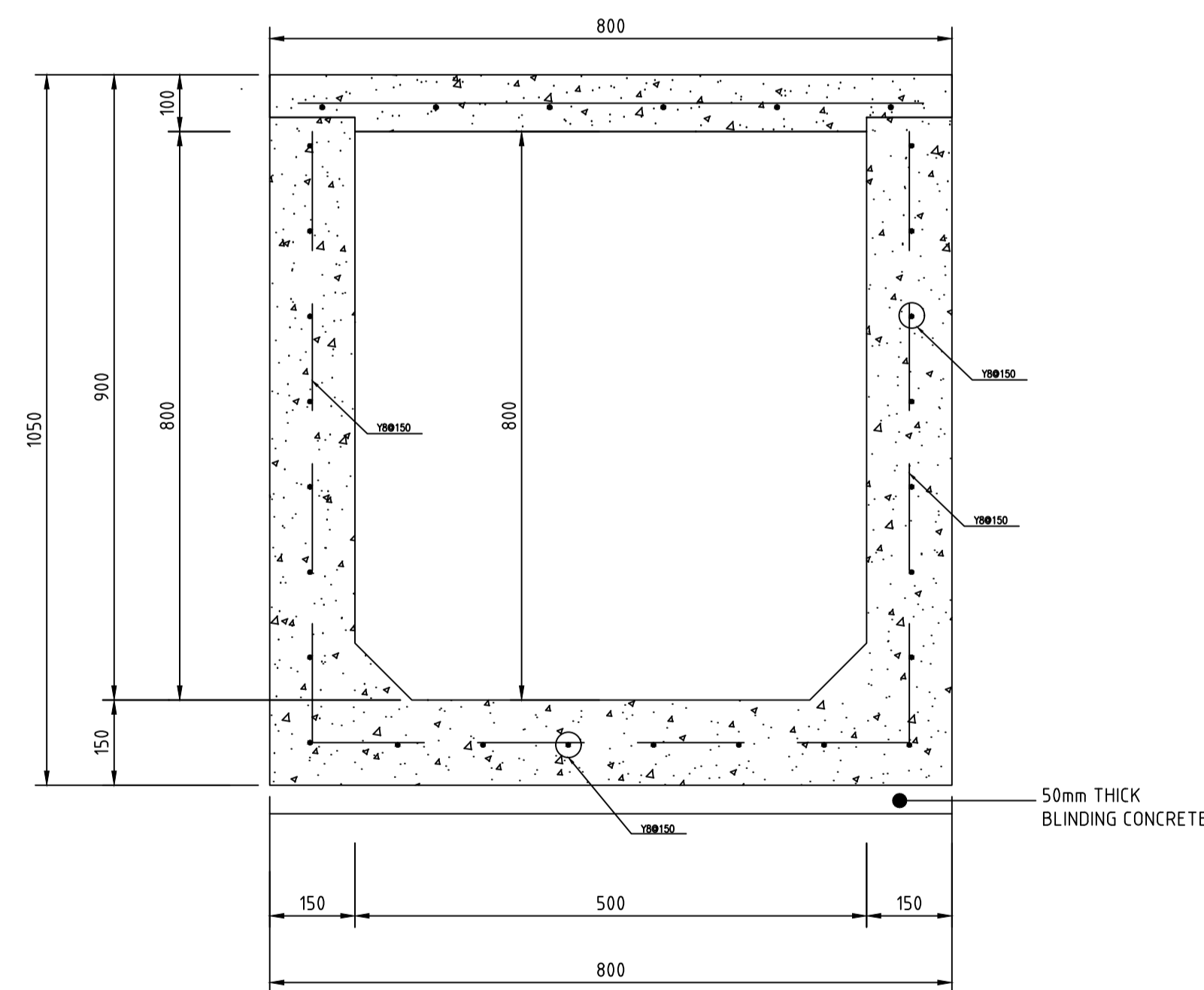


PLAN - SLOTTED INLET DRAIN
SCALE 1:10



No	DESCRIPTION
①	APPROVED COHESIVE SOIL BACK FILL
②	FILTER STONE : FINE OR COARSE GRADE AS REQUIRED.
③	PERFORATED SUBSOIL DRAINAGE PIPES.
④	SYNTHETIC FIBRE FILTER FABRIC
⑤	LEVEL TO WHICH SURROUNDING AREA IS TO BE DRAINED (WATER TABLE).
⑥	INTERNAL PIPE DIAMETER: 150mm.

NOTE:
LOCATION TO BE CONFIRMED ON SITE



SECTION THROUGH SLOTTED DRAIN
SCALE: 1:10

CLIENT
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT;
COUNTY GOVERNMENT OF ELGEYO MARAKET

PROJECT TITLE
SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2)
ELGEYO MARAKET COUNTY

CONSULTANTS
SOBOCON ASSOCIATES LIMITED

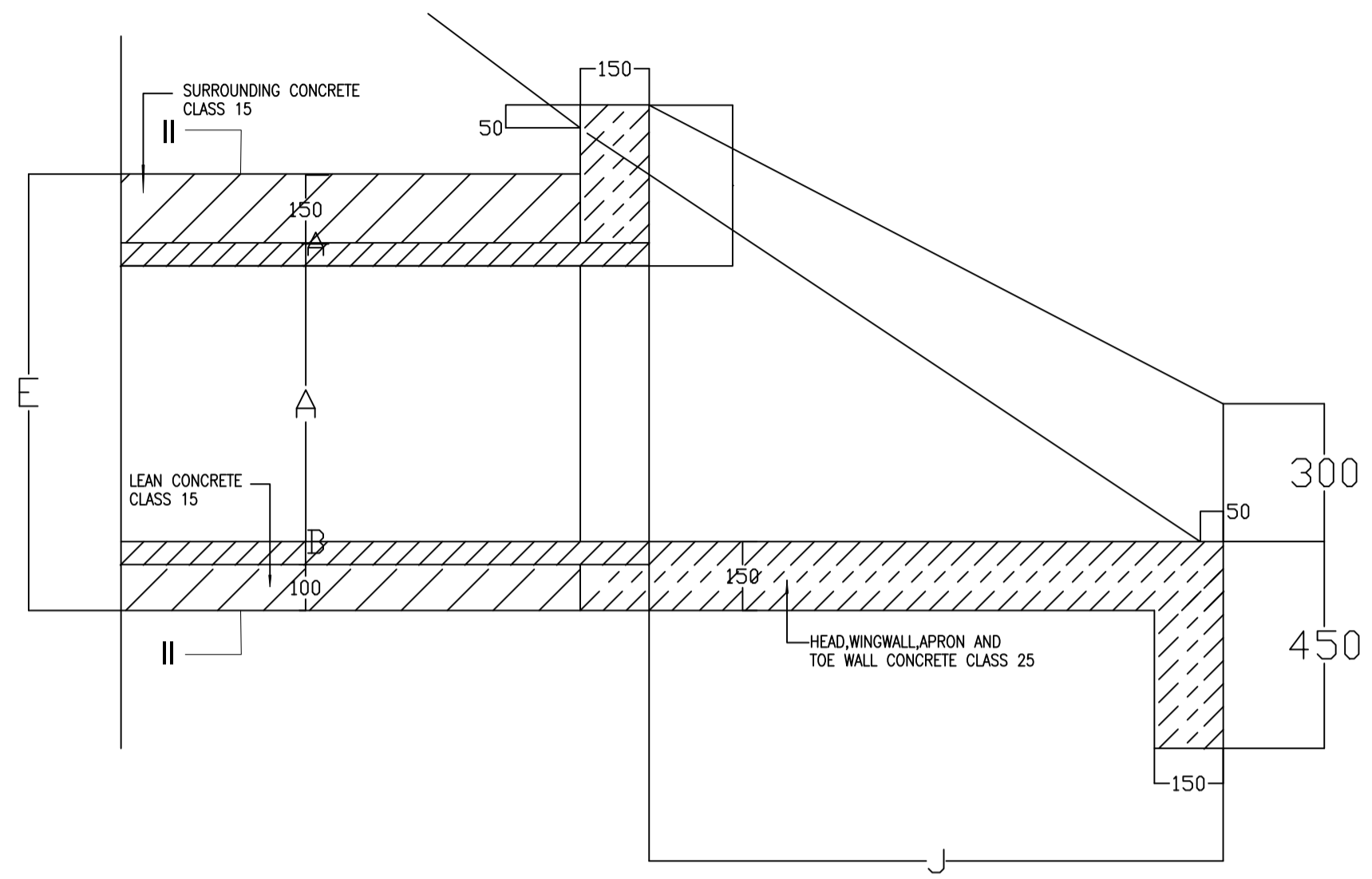


REVISIONS		
NO.	DATE	DESCRIPTION

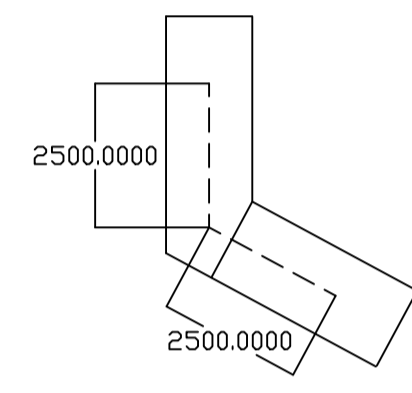
DRAWING TITLE:
ELGEYO MARAKET COUNTY:ROADS & DRAINAGE WORKS

SHEET TITLE: STANDARD DRAWINGS:STORMWATER SLOTTED DRAIN & SUBSOIL DRAIN DETAILS
DWG. NO.:KISIP-SAL/ELG/SD/10
SHEET NO: 32 OF 39
SCALE: AS SHOWN
STAGE: DETAILED DRAWINGS
DATE: DECEMBER 2023

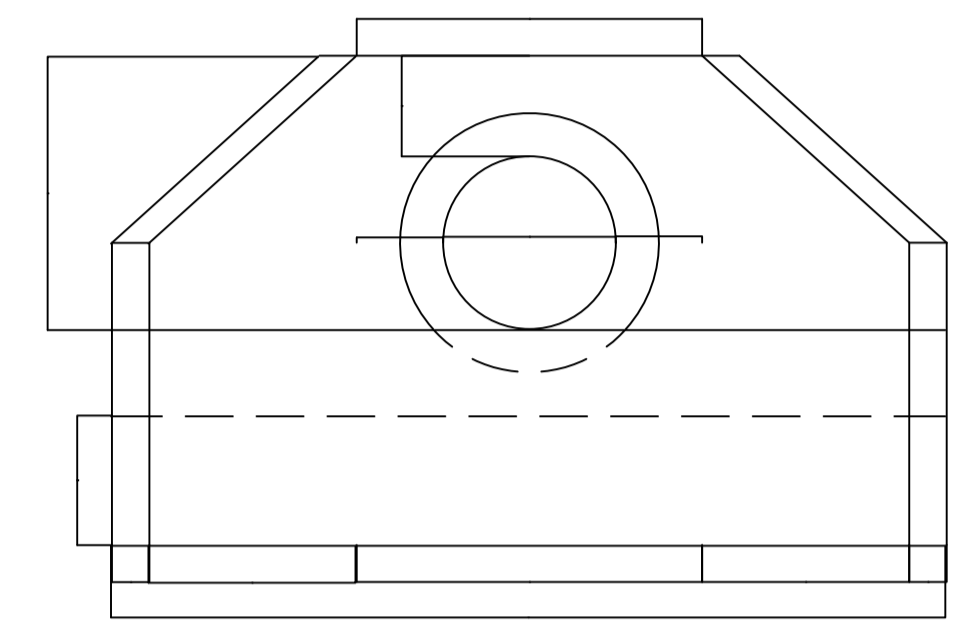
DESIGN BY: R.O
DRAWN BY: S.M
CHECKED BY: J.O
APPROVED BY: B.O



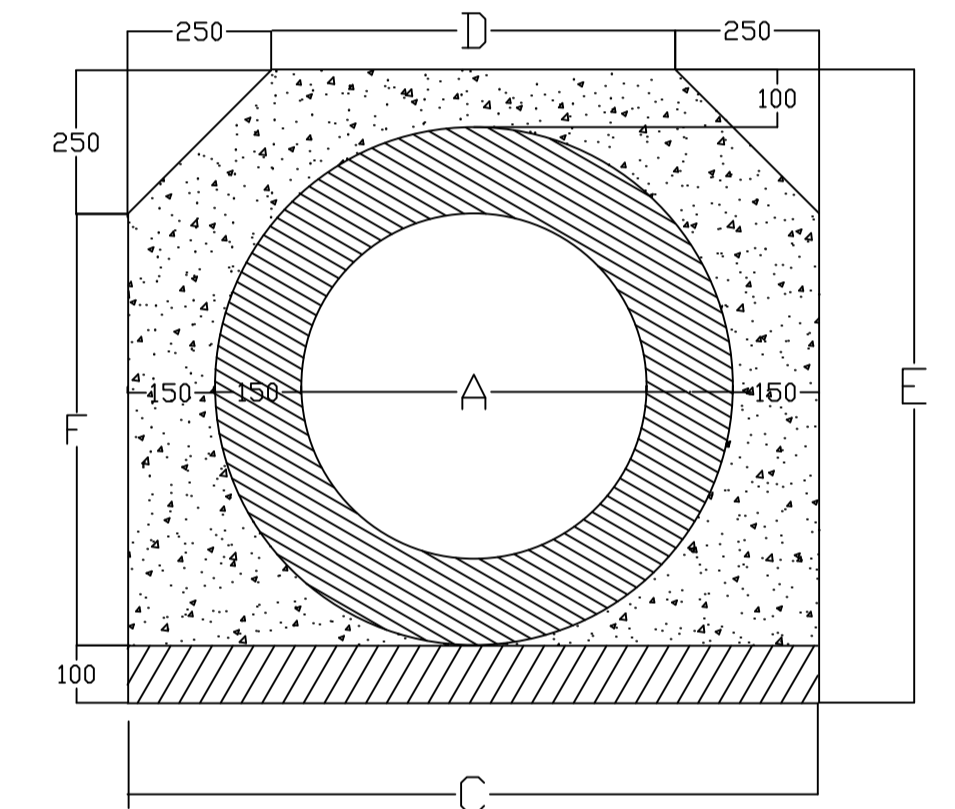
SECTION I-I



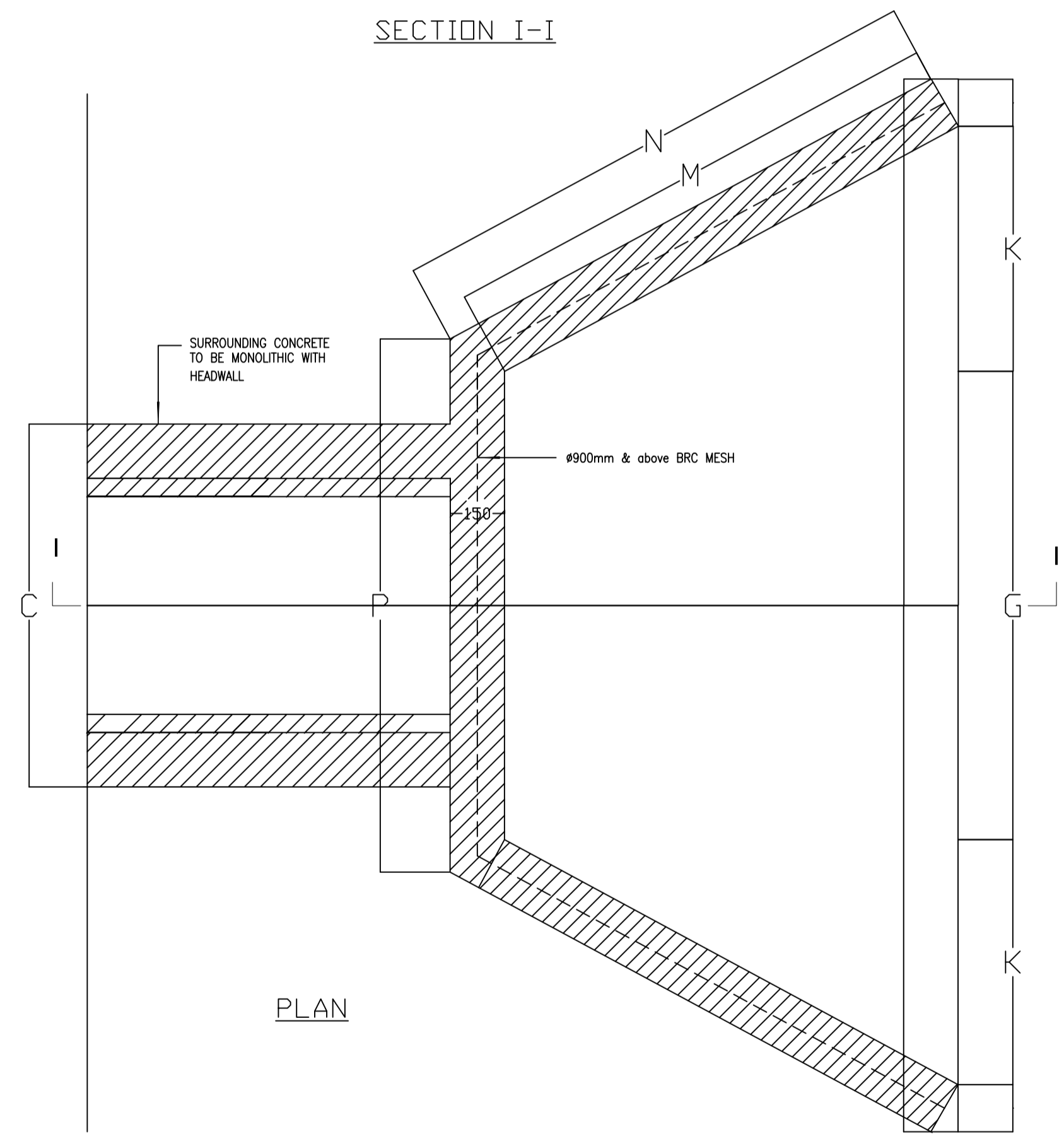
DOWELL BARS



FRONT ELEVATION




SECTION II-II

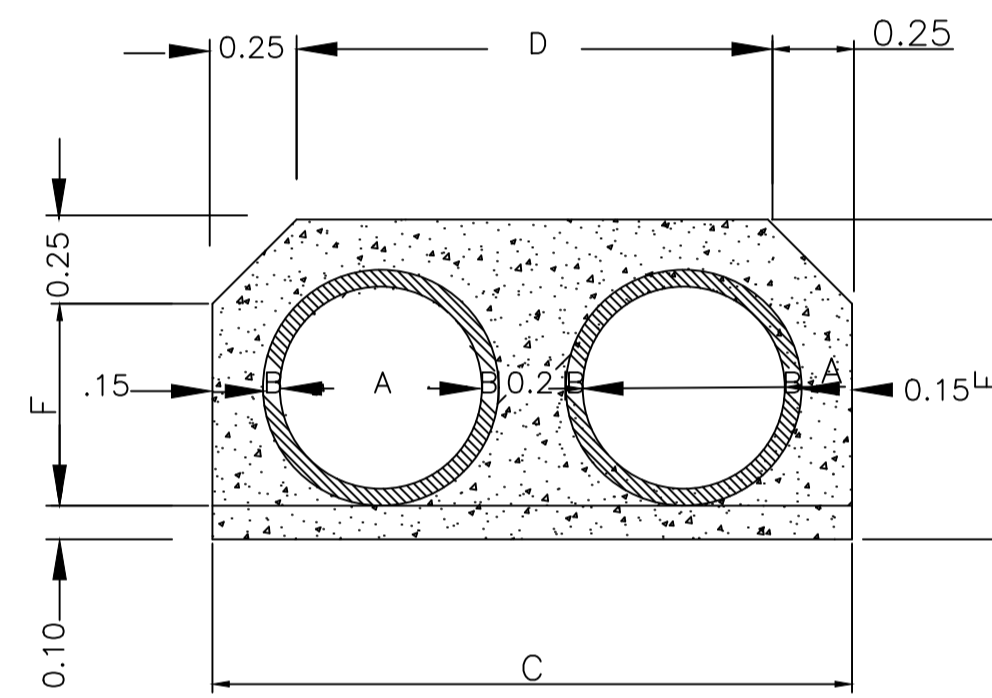
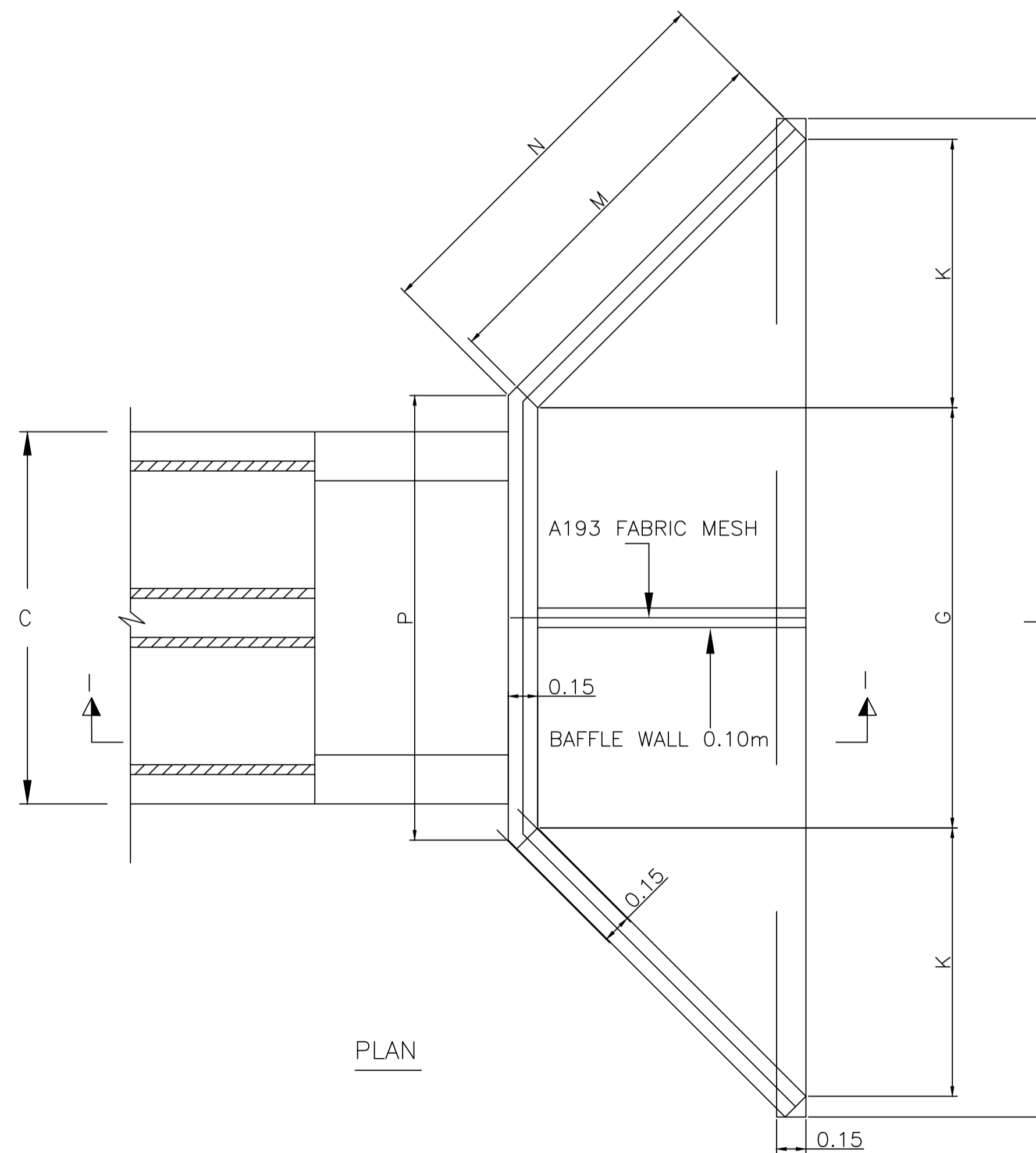
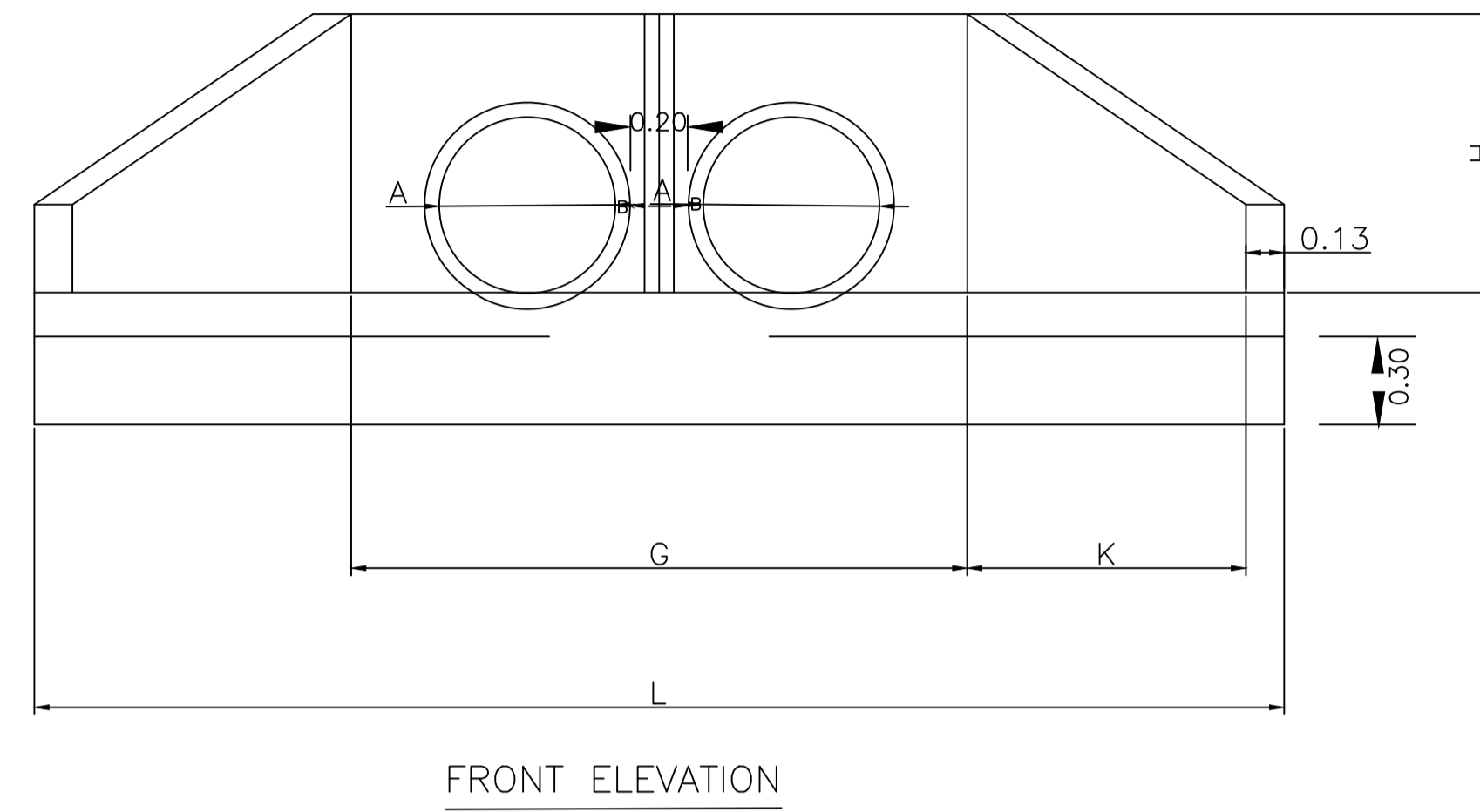
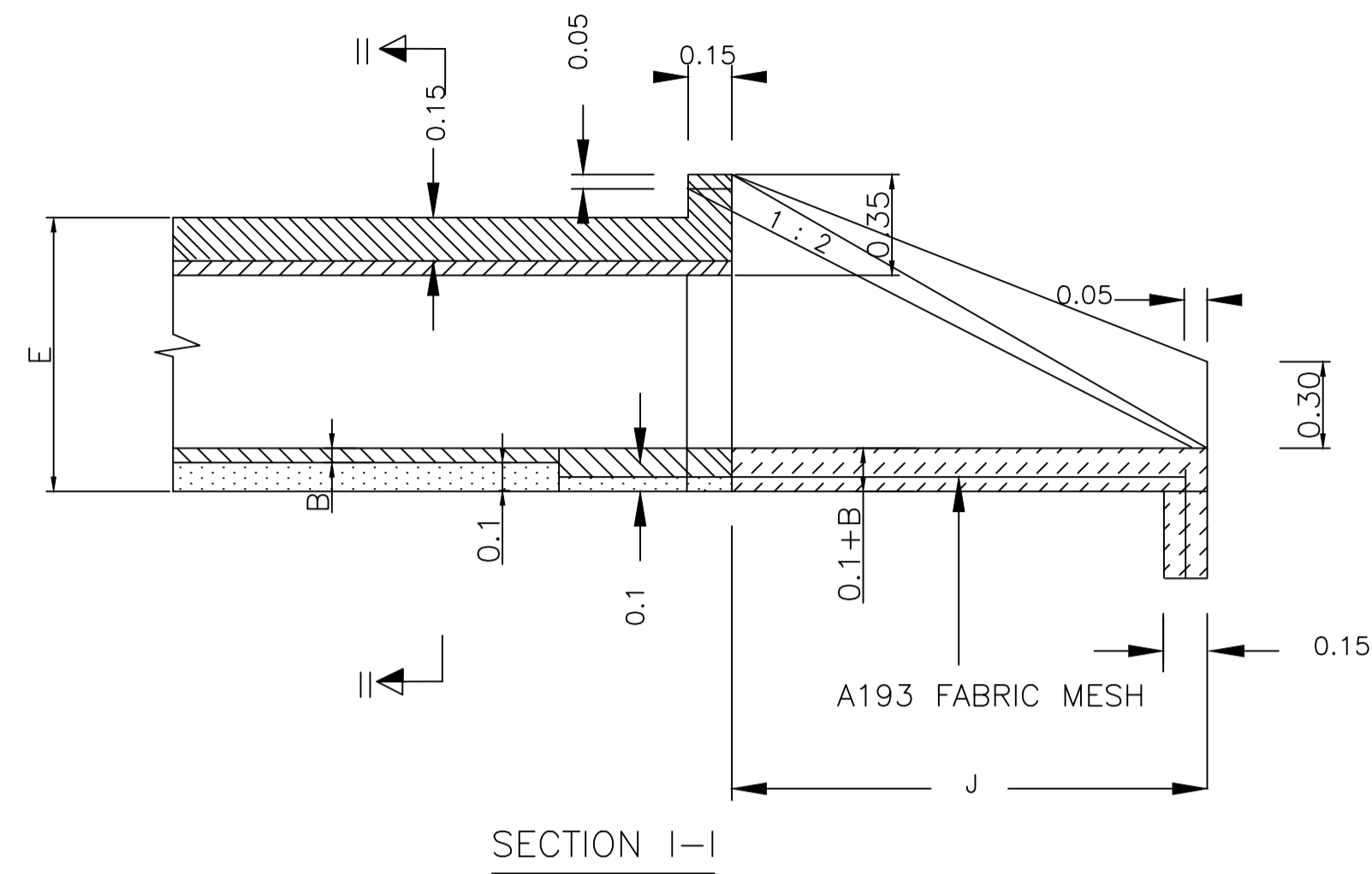


PLAN

CULVERT	A m	B m	C m	D m	E m	F m	G m	H m	J m	K m	L m	M m	N m	p m	CONCRETE CLASS 25 INLET & OUTLET	CONCRETE CLASS 15 SURROUND & BEAM PER RUNNING M
0.60m ϕ	0.60	0.05	1.00	0.50	0.95	0.60	1.20	0.95	1.25	0.72	2.90	1.44m	1.53	1.29	1.97m	0.50m
0.90m ϕ	0.90	0.07	1.34	0.84	1.29	0.94	1.50	1.25	1.70	0.98	3.72	1.96m	2.05	1.59	3.12m	0.82m

- NOTES
1. INLET AND OUTLET ARE ONLY REINFORCED WITH DOWELL BARS
 2. DOWELL BARS OF Y12 BARS TO BE POSITIONED AT \approx 0.20m SPACING
 3. THE SLOPE OF PIPE SHALL BE AS DIRECTED BY THE ENGINEER'S REPRESENTATIVE

CLIENT DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT; COUNTY GOVERNMENT OF ELGEYO MARAKET	PROJECT TITLE SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2) ELGEYO MARAKET COUNTY	CONSULTANTS SOBOCON ASSOCIATES LIMITED 	REVISIONS			DRAWING TITLE: ELGEYO MARAKET COUNTY:ROADS & DRAINAGEWORKS	STANDARD DRAWING: SINGLE CELL PIPE CULVERT DETAILS		DESIGN BY: R.O
			NO.	DATE	DESCRIPTION		DWG. NO.:KISIP-SAL/ELG/SD/11	DRAWN BY: S.M	
							SHEET NO: 33 OF 39	CHECKED BY: J.O	
							SCALE: AS SHOWN	APPROVED BY: B.O	
							STAGE: DETAILED DRAWINGS	DATE: DECEMBER 2023	



NOTES


1. ALL FABRIC MESH REINFORCEMENT TO BE PLACED AS SHOWN
2. THE SLOPE OF THE PIPE SHALL BE DIRECTED BY THE ENGINEER'S REPRESENTATIVE
3. ALL DIMENSIONS ARE IN METRES
4. BAFFLE WALL TO BE CONSTRUCTED ONLY ON THE INLET SIDE
5. CONCRETE FOR HEADWALL, APRON, TOEWALL, BAFFLEWALL TO BE CLASS 25/20
6. CONCRETE FOR BLINDING AND SURROUND TO BE CLASS 15/20
7. CONCRETE SURROUND FOR 1.20m DIAMETER PIPE IS 0.20m AND NOT 0.15m
8. TABLE A SHOWS INCREMENTS IN DIMENSIONS AND QUANTITIES FOR EACH ADDITIONAL MULTIPLE PIPE
9. TABLE B SHOWS DIMENSIONS AND QUANTITIES FOR STANDARD TWIN CULVERTS
10. CONCRETE SURROUND SHALL AT ALL TIMES BE BELOW THE ROAD SUBGRADE UNLESS INSTRUCTED OTHERWISE BY THE ENGINEER.
11. THE LENGTH OF THE PIPE TO BE LAID SHALL AT ALL TIMES PROVIDE FOR ENTIRE ROAD CROSS SECTION.

TABLE A

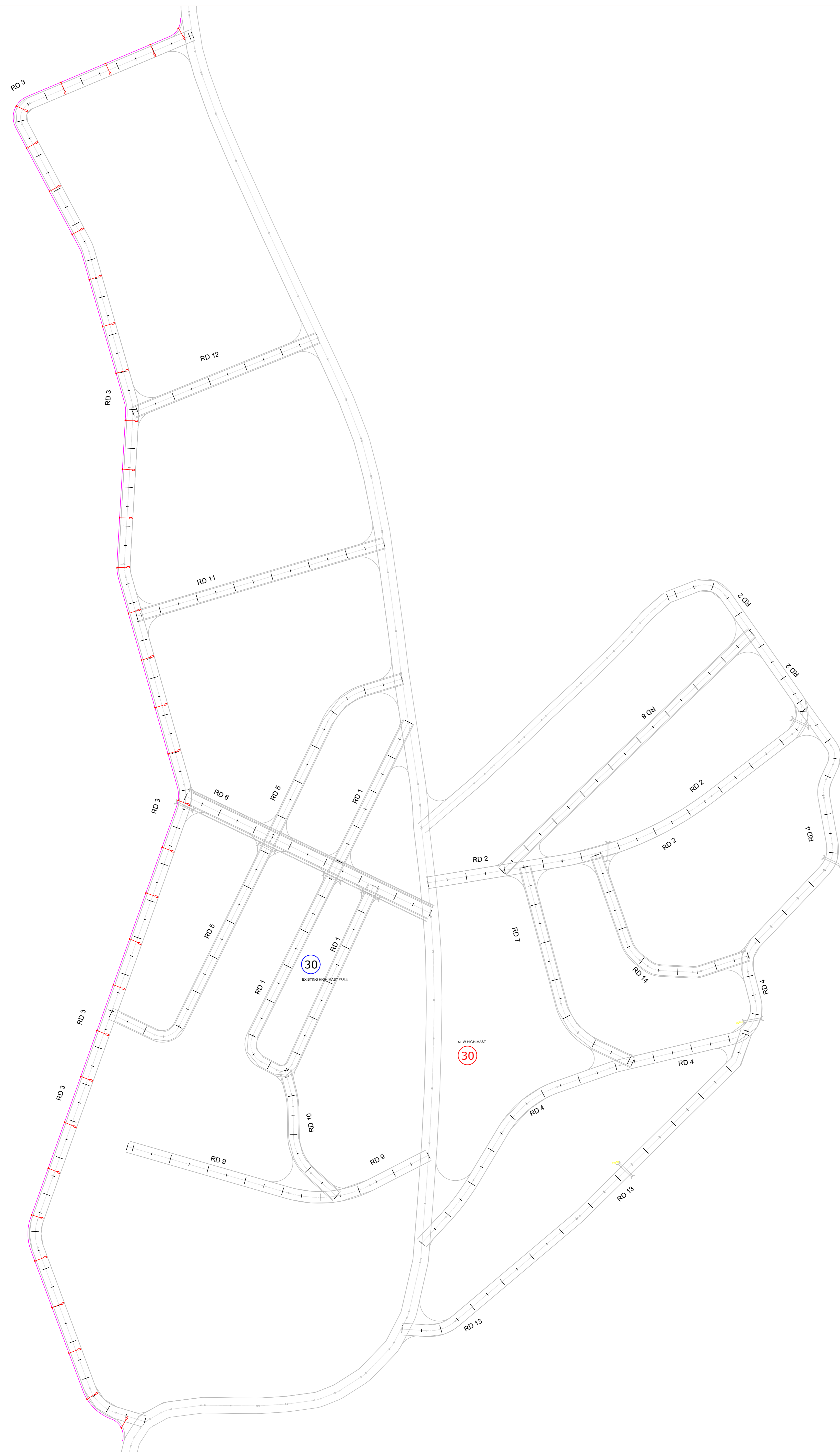
CULVERT	ΔC m	ΔD m	ΔG m	ΔL m	ΔP m	ADDITIONAL CONCRETE CLASS 25/20 INLET & OUTLET	ADDITIONAL CONCRETE CLASS 15/40 SURROUND & BED per running m
0.60m DIAM.	0.90	0.90	0.90	0.30	0.90	0.80m ³	0.47m ³
0.90m DIAM.	1.28	1.28	1.28	1.28	1.28	2.13m ³	0.73m ³
1.20m DIAM.	1.60	1.60	1.60	1.60	1.60	3.38m ³	1.18m ³

TABLE B







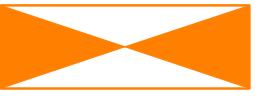

CULVERT	A m	B m	C m	D m	E m	F m	G m	H m	J m	K m	L m	M m	N m	P m	ADDITIONAL CONCRETE CLASS 25/20 INLET & OUTLET	ADDITIONAL CONCRETE CLASS 15/40 SURROUND & BED per running m
0.60m DIAM.	0.60	0.05	1.90	1.40	0.95	0.60	2.10	0.95	1.65	0.95	4.26	1.91	2.00	2.27	3.26m ³	0.97m ³
0.90m DIAM.	0.90	0.09	2.66	2.16	1.33	0.98	2.74	1.25	2.25	1.30	5.60	2.60	2.69	2.91	6.10m ³	1.59m ³
1.20m DIAM.	1.20	0.10	3.40	2.90	1.70	1.35	3.36	1.55	2.85	1.65	6.92	3.29	3.38	3.55	9.24m ³	2.64m ³

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			NO.	DATE	DESCRIPTION		DWG. NO.:KISIP-SAL/ELG/SD/12	DRAWN BY: S.M	
							SHEET NO: 34 OF 39	CHECKED BY: J.O	
							SCALE: AS SHOWN	STAGE: DETAILED DRAWINGS	APPROVED BY: B.O
								DATE: DECEMBER 2023	

STREET LIGHTING




LEGEND

-  8m high street lighting pole with single-arm bracket and an integrated solar LED luminaire - spaced 25m apart
-  Existing 30M High Mast Pole
-  New 30M High Mast Pole
-  Alignment: All street lighting installations are 0.5m from the edge of the sidewalk
-  13A TWIN-SWITCHED SOCKET OUTLET - @450MM AFFL
-  CONSUMER UNIT - @1800MM AFFL
-  METER BOARD - @1200MM AFFL
-  300MM X 300MM X 600MM DEEP RC MANHOLE WITH COVER

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COUNTY GOVERNMENT OF ELGEYO MARAKET

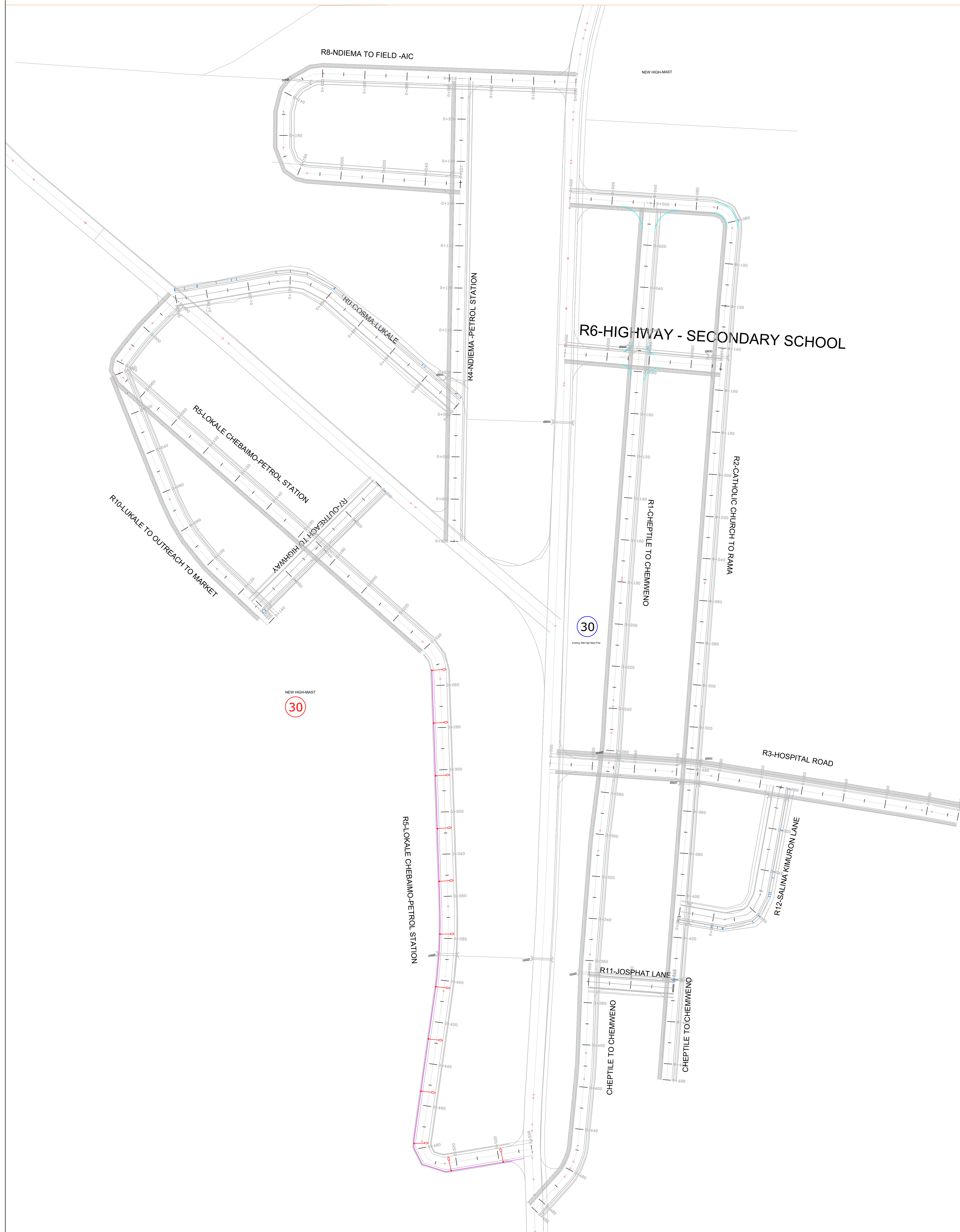
PROJECT TITLE
SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2) ELGEYO MARAKET COUNTY

CONSULTANTS
SOBOCON ASSOCIATES LIMITED


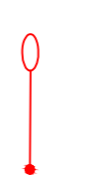
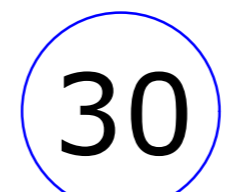






REVISIONS-0		
NO.	DATE	DESCRIPTION

DRAWING TITLE:
CHEBIEMIT:- STREET LIGHTING LAYOUT

SHEET TITLE: STREET LIGHTING LAYOUT		DESIGN BY: P.N.
DWG. NO.: KISIP-SAL/ELG/CHEP/GL/01		DRAWN BY: P.N.
SHEET NO: 35 OF 39		CHECKED BY: P.N.
SCALE: (A1) HR-1:500 VR-1:50	STAGE: DETAILED DESIGN	APPROVED BY: P.N.
DATE: DECEMBER 2023		




LEGEND

-  8m high street lighting pole with single-arm bracket and an integrated solar LED luminaire - spaced 25m apart
-  Existing 30M High Mast Pole
-  New 30M High Mast Pole
-  Alignment: All street lighting installations are 0.5m from the edge of the sidewalk
-  13A TWIN-SWITCHED SOCKET OUTLET - @450MM AFFL
-  CONSUMER UNIT - @1800MM AFFL
-  METER BOARD - @1200MM AFFL
-  300MM X 300MM X 600MM DEEP RC MANHOLE WITH COVER

CLIENT
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT; COUNTY GOVERNMENT OF ELGEYO MARAKET

PROJECT TITLE
SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2) ELGEYO MARAKET COUNTY

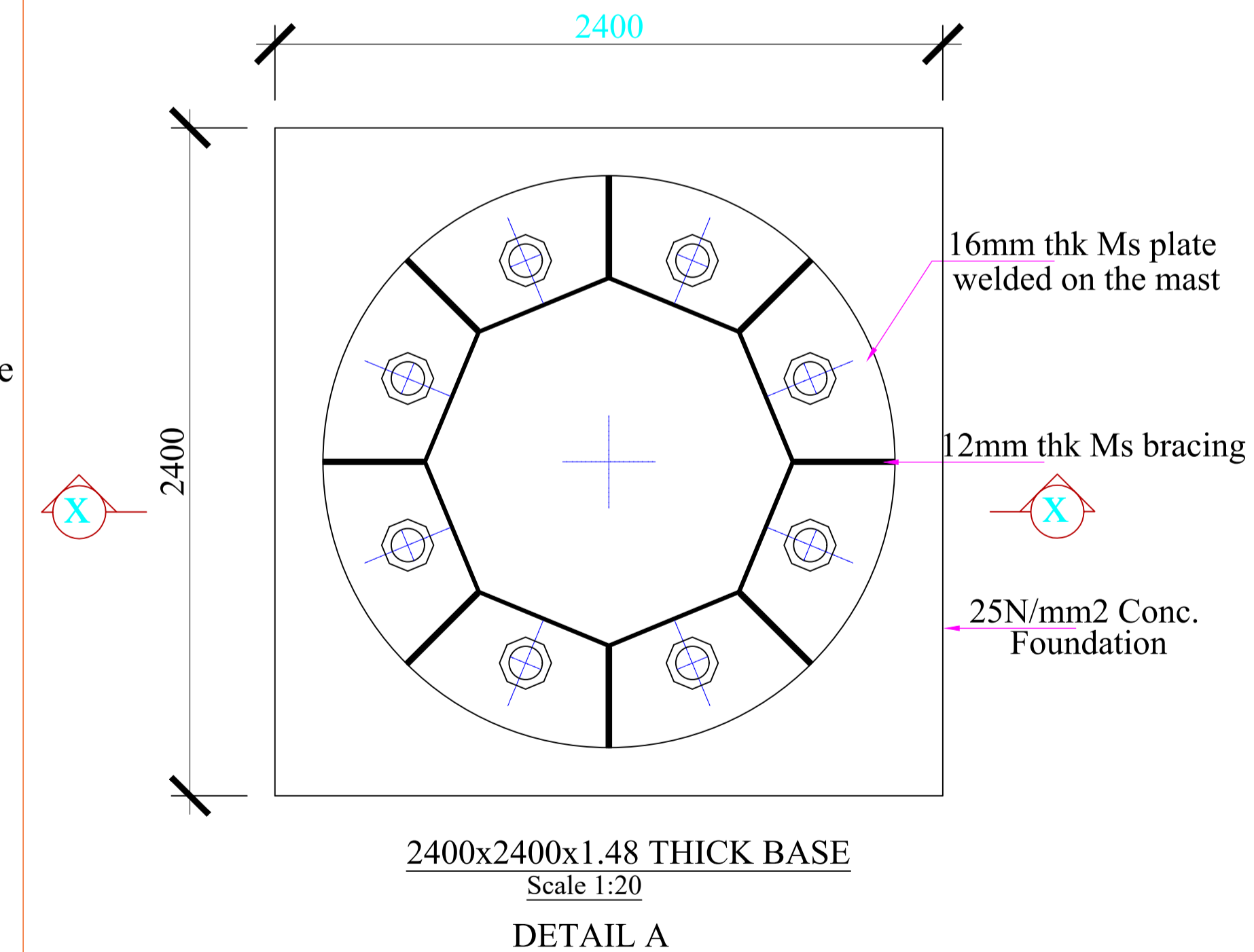
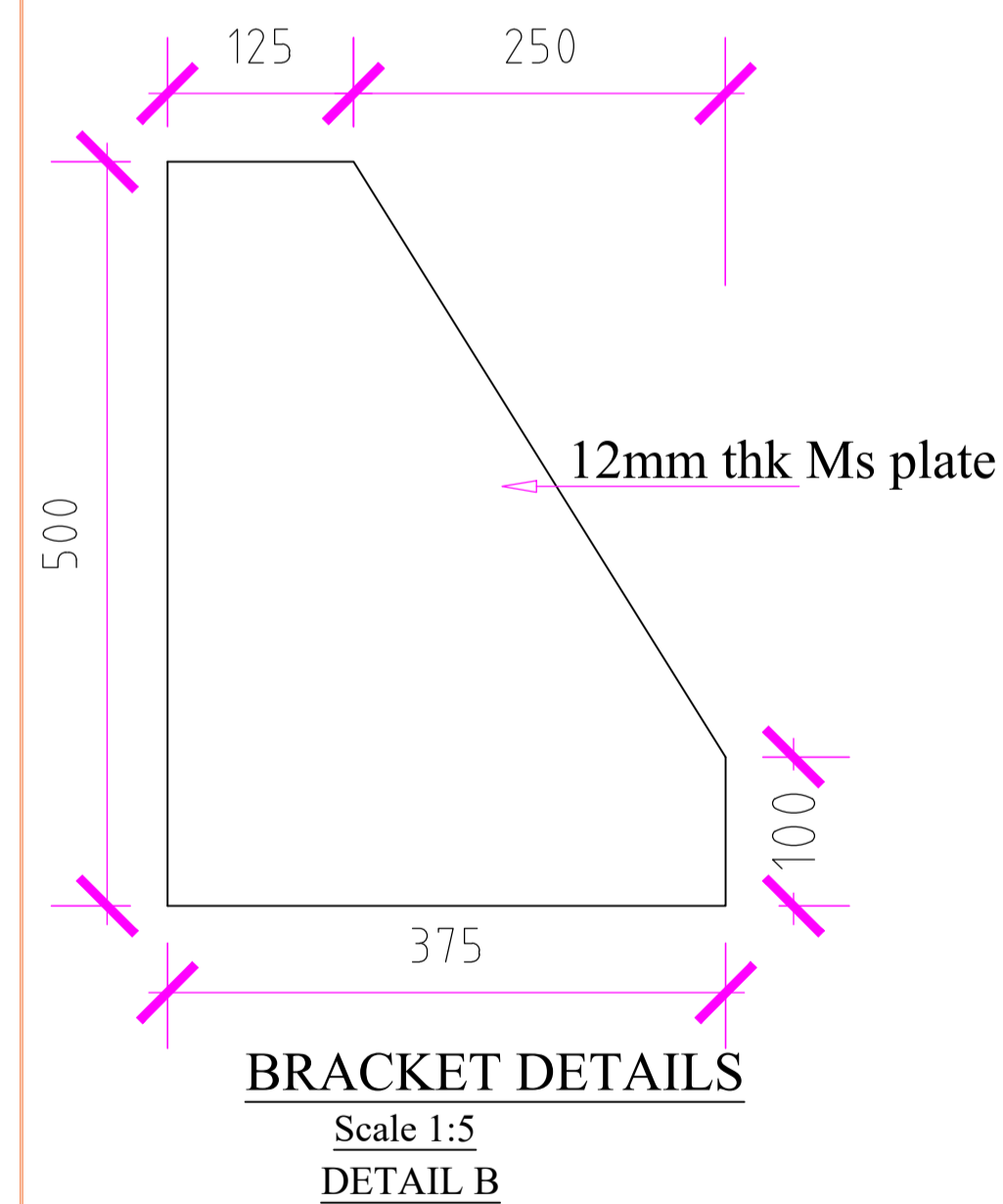
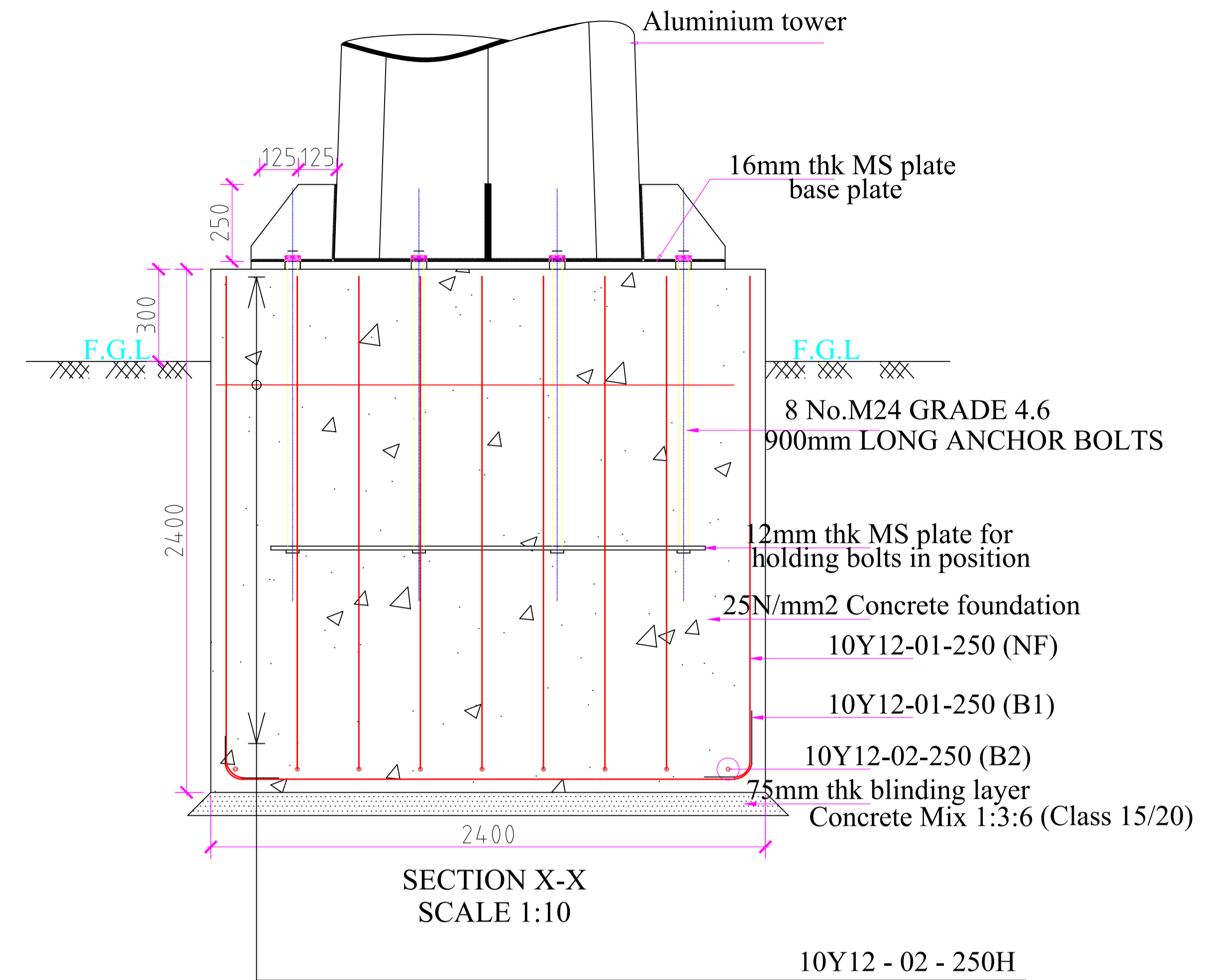
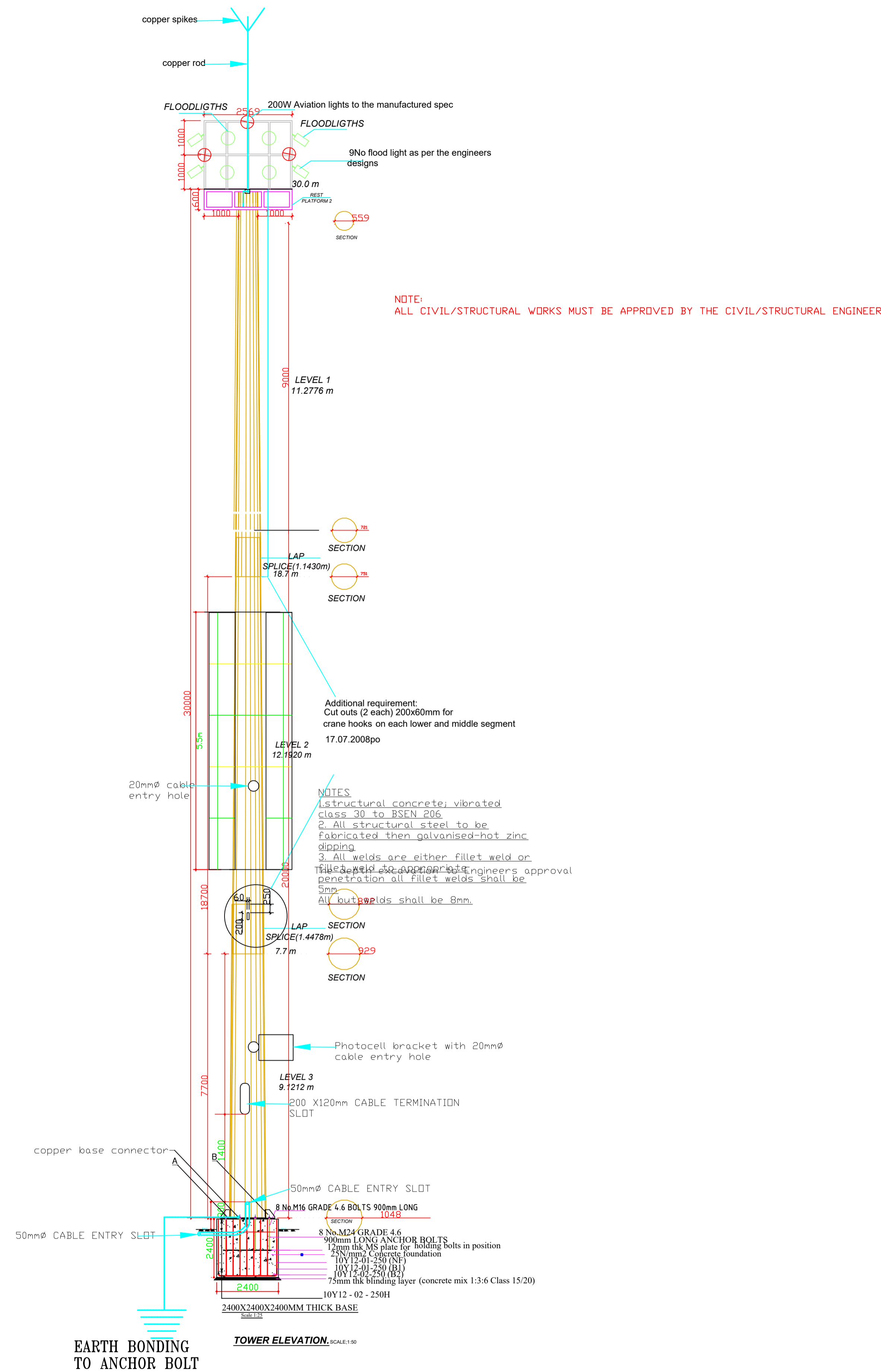
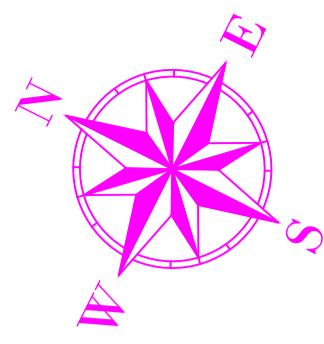
CONSULTANTS
SOBOCON ASSOCIATES LIMITED



REVISIONS - 0		
NO.	DATE	DESCRIPTION

DRAWING TITLE:
CHEPTONGEI:- HIGH MASTS LAYOUT

SHEET TITLE: CHEPTONGEI LAYOUT		DESIGN BY:	P.N.
DWG. NO.: KISIP-SAL/ELG/CHEP/GL/01		DRAWN BY:	P.N.
SHEET NO: 36 OF 39		CHECKED BY:	P.N.
SCALE: (A1) HR-1:500 VR-1:50	STAGE: DETAILED DESIGN	APPROVED BY:	P.N.
DATE: DECEMBER 2023			



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DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT; COUNTY GOVERNMENT OF ELGEYO MARAKET

PROJECT TITLE
SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2) ELGEYO MARAKET COUNTY

CONSULTANTS
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REVISIONS-0

NO.	DATE	DESCRIPTION

DRAWING TITLE:

ELGEYO: - 30M HIGH MAST POLE DETAILS

SHEET TITLE: ELGEYO:- 30M HIGH MAST POLE DETAILS

DWG. NO.:KISIP-SAL/ELG/LM/P&P/01

SHEET NO:37 OF 39

SCALE: (A1) HR-1:500
VR-1:50

STAGE: DETAILED DESIGN

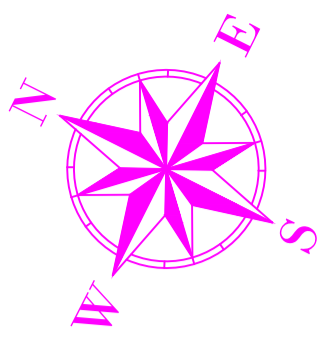
DATE: DECEMBER 2023

DESIGN BY: P.N.

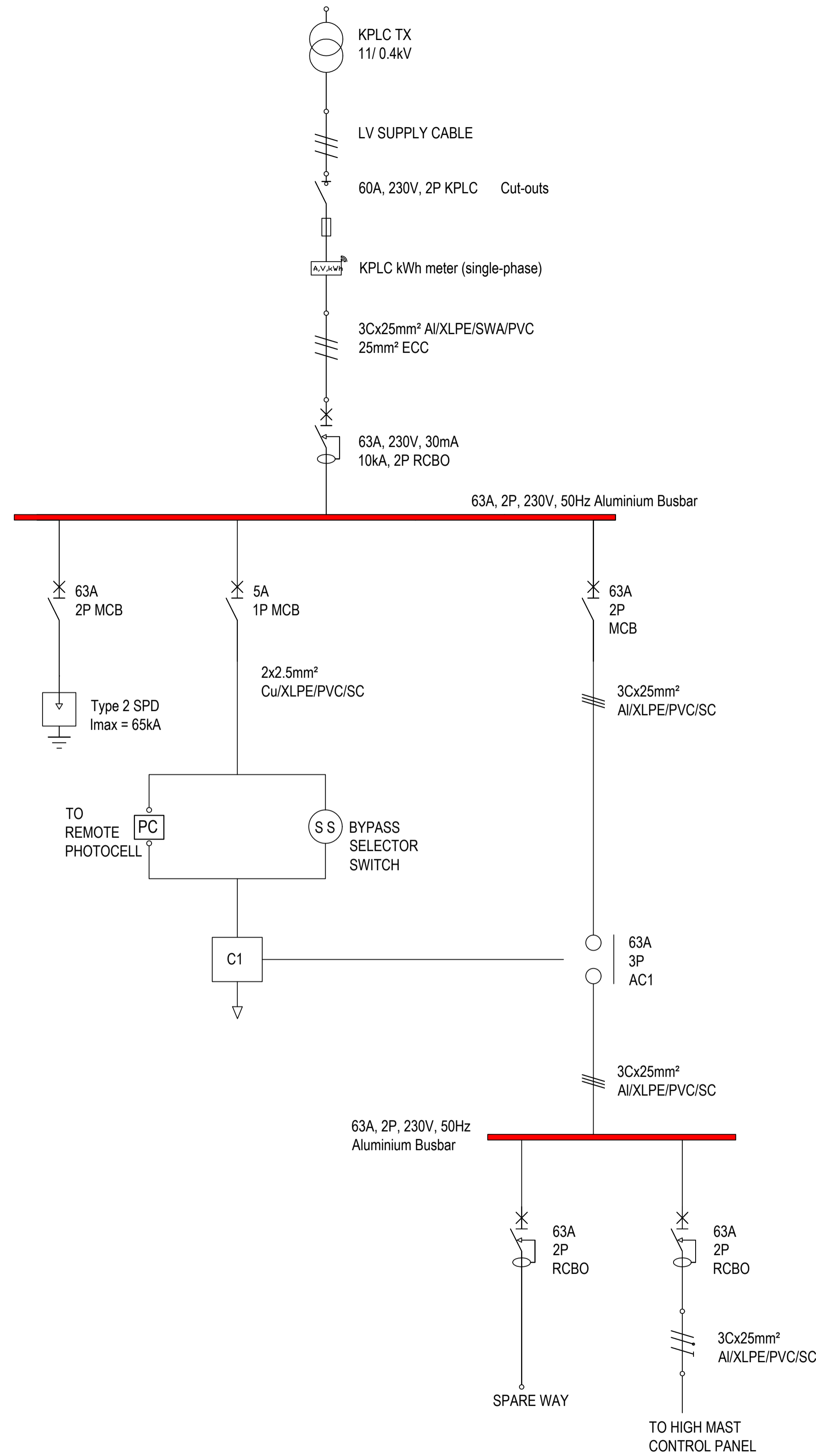
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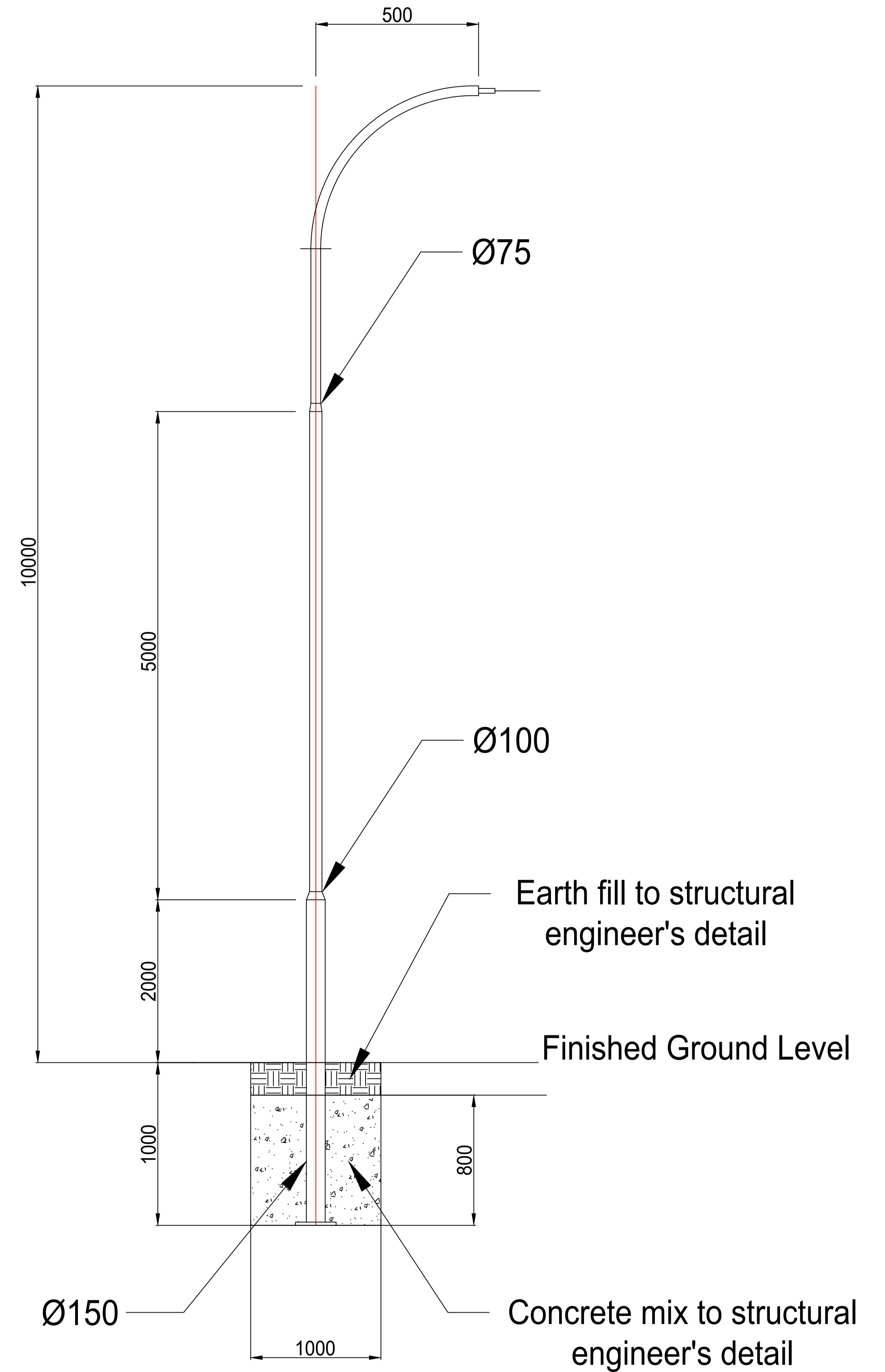
APPROVED BY: P.N.



FEEDER PILLAR SCHEMATIC WIRING DIAGRAM



10M STREET LIGHTING POLE DETAILS



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DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT;
COUNTY GOVERNMENT OF ELGEYO MARAKET

PROJECT TITLE
SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2) ELGEYO MARAKET COUNTY

CONSULTANTS
SOBOCON ASSOCIATES LIMITED



REVISIONS-0

NO.	DATE	DESCRIPTION

DRAWING TITLE:
ELGEYO: - SCHEMATIC WIRING DIAGRAM AND STREET LIGHTING POLE DETAIL

SHEET TITLE: ELGEYO:- SCHEMATIC WIRING DIAGRAM

DWG. NO.: KISIP-SAL/ELG/LM/P&P/02

SHEET NO: 38 OF 39

SCALE: (A1) HR-1:500
VR-1:50

STAGE: DETAILED DESIGN
DATE: DECEMBER 2023

DESIGN BY: P.N.

DRAWN BY: P.N.

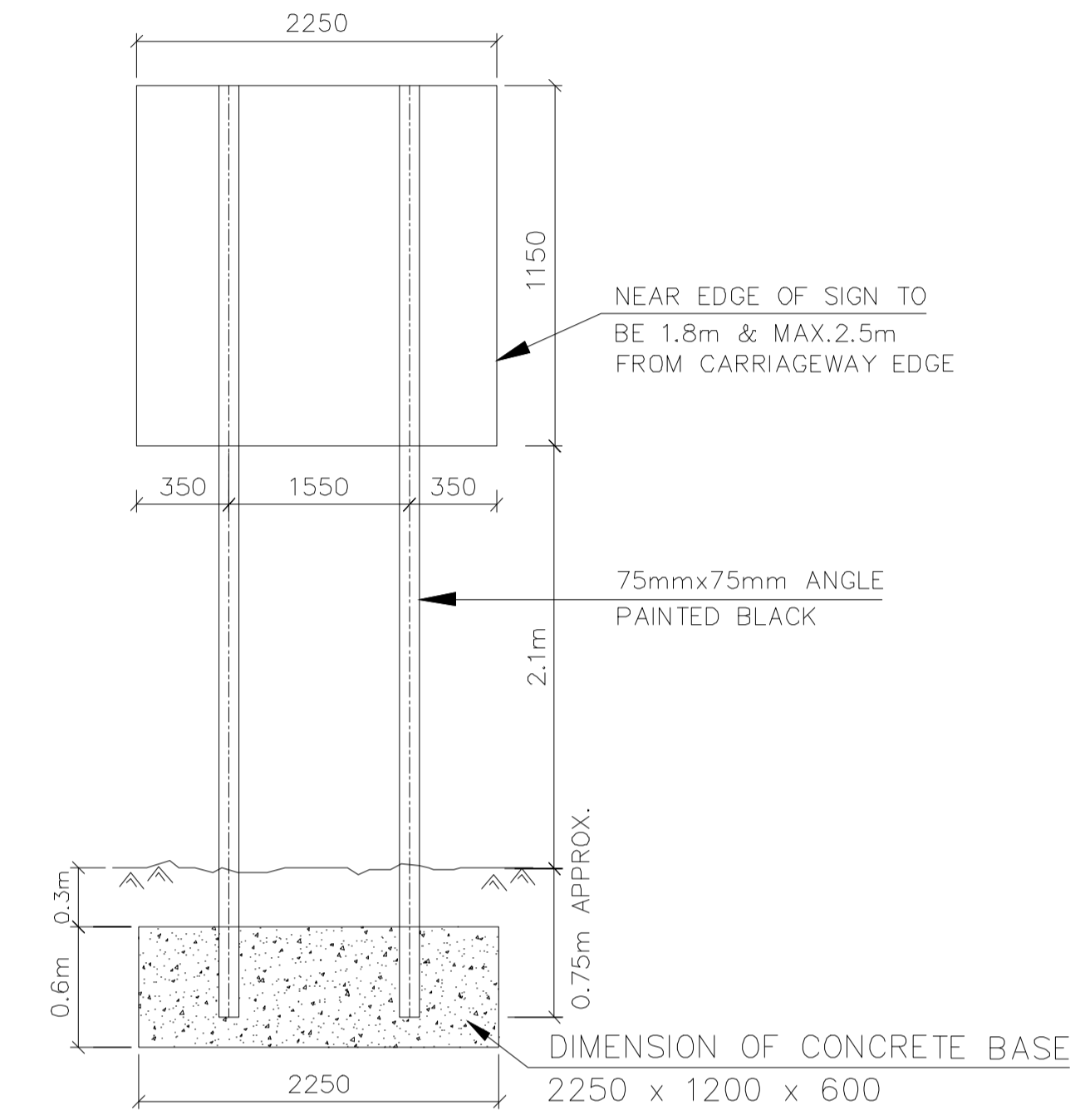
CHECKED BY: P.N.

APPROVED BY: P.N.

PROJECT PUBLICITY BOARD



SIGNBOARDS : WHITE LETTERS
 BACKGROUND COLOUR: B.S.O-005




SIGN BOARD: INSTALLATION DETAILS.
 SCALE : 1:3000

HEIGHTS OF LETTERS 70mm, 50mm AND 35mm
 DIMENSIONS IN MILLIMETRES



PUBLICITY SIGN BOARD.
 SCALE : 1:100

CLIENT DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT; COUNTY GOVERNMENT OF ELGEYO MARAKWET	PROJECT TITLE SECOND KENYA INFORMAL SETTLEMENT IMPROVEMENT PROJECT (KISIP 2) ELGEYO MARAKWET COUNTY	CONSULTANTS SOBOCON ASSOCIATES LIMITED 	REVISIONS - 0			DRAWING TITLE: LOT 1 :PUBLICITY BOARD	SHEET TITLE: PROJECT PUBLICITY BOARD		DESIGN BY: R.O
			NO.	DATE	DESCRIPTION		DWG. NO: KISIP-SAL/EL/01	DRAWN BY: S.M	
							SHEET NO: 39 OF 39	CHECKED BY: J.O	
							SCALE: AS SHOWN	STAGE: DETAILED DRAWINGS DATE: DECEMBER 2023	APPROVED BY: B.O