



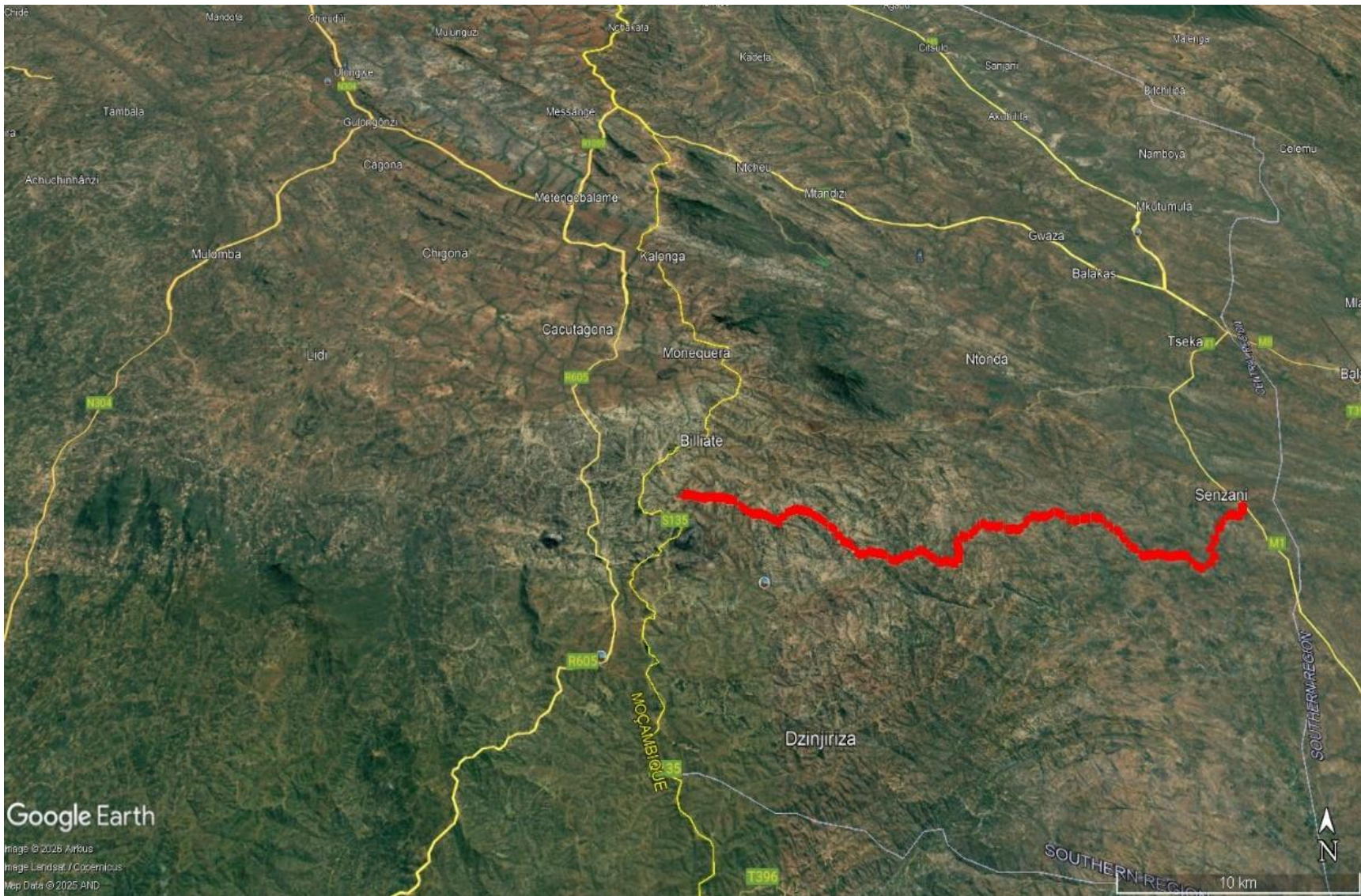
SOUTHERN AFRICA TRADE AND CONNECTIVITY PROJECT
(SATCP)

MINISTRY OF TRANSPORT AND PUBLIC WORKS

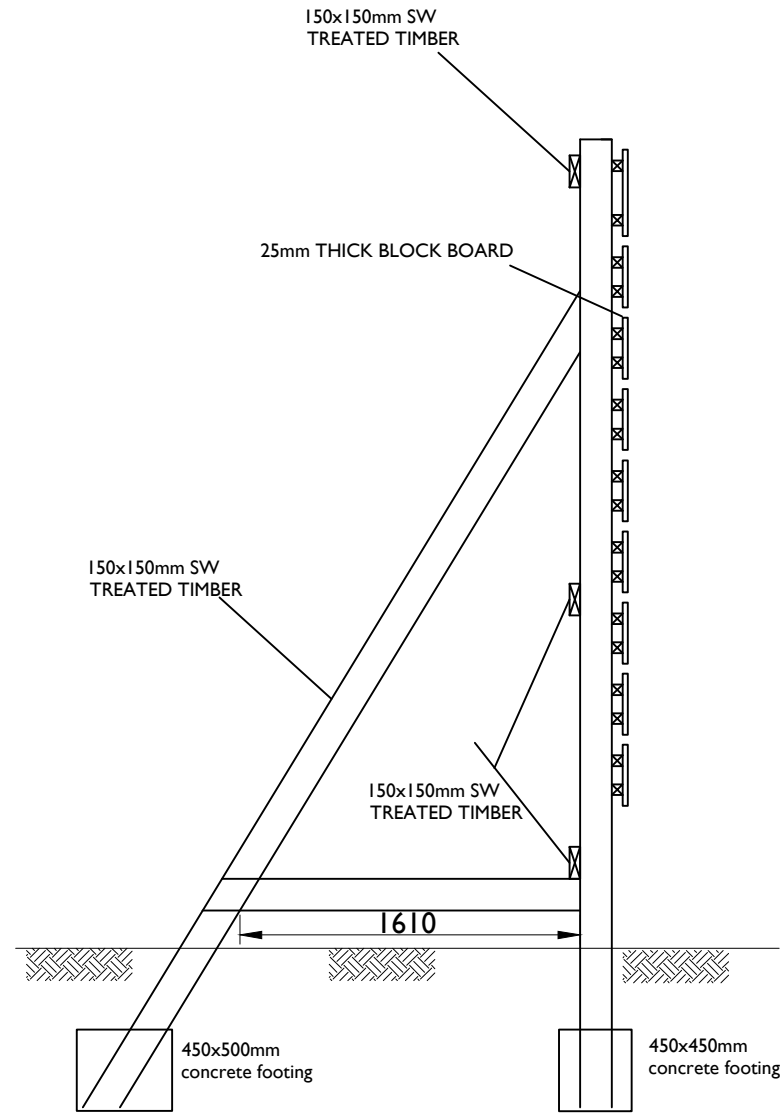
MW-MTPW-544351-CW-RFB/ SPOT IMPROVEMENT AND INSTALLATION OF DRAINAGE
STRUCTURES ON SENZANI- DOVIKO (T394/S125) ROAD(18KMs) IN NTCHEU DISTRICT-SECTION 2
(KM 24-42)

THE BOOK OF DRAWINGS-TENDER PURPOSE

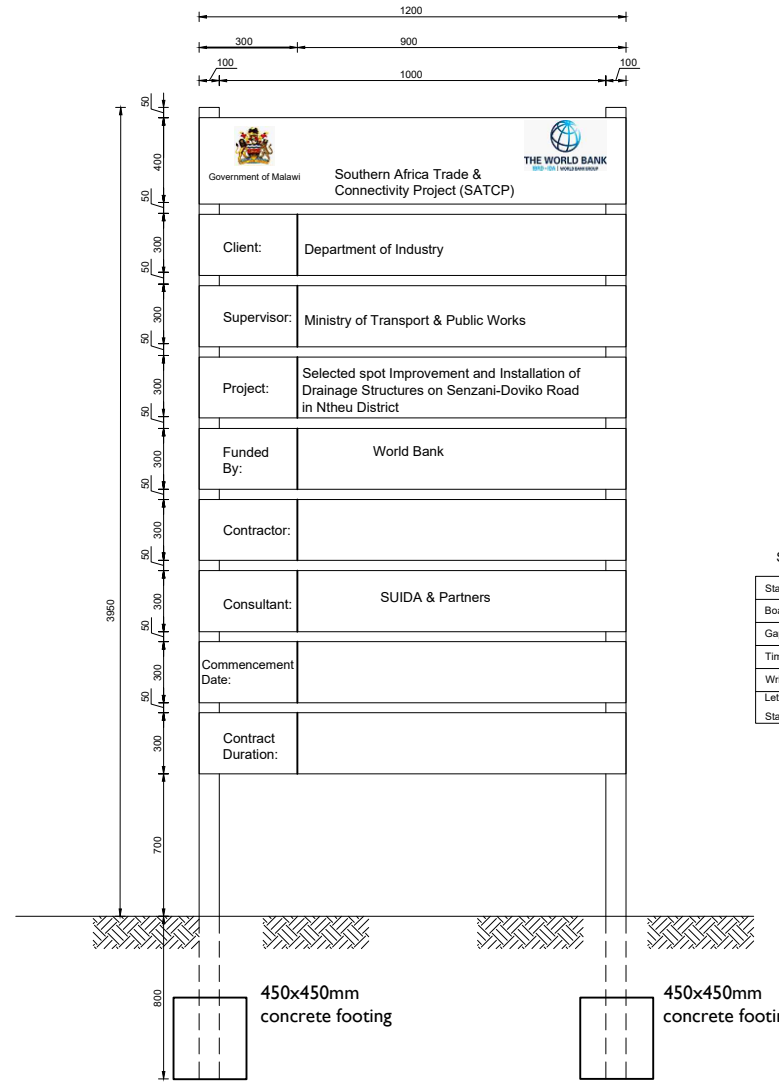
MARCH 2026



LOCATION MAP OF SENZANI-DOVIKO ROAD IN NTCHEU DISTRICT



SIDE ELEVATION

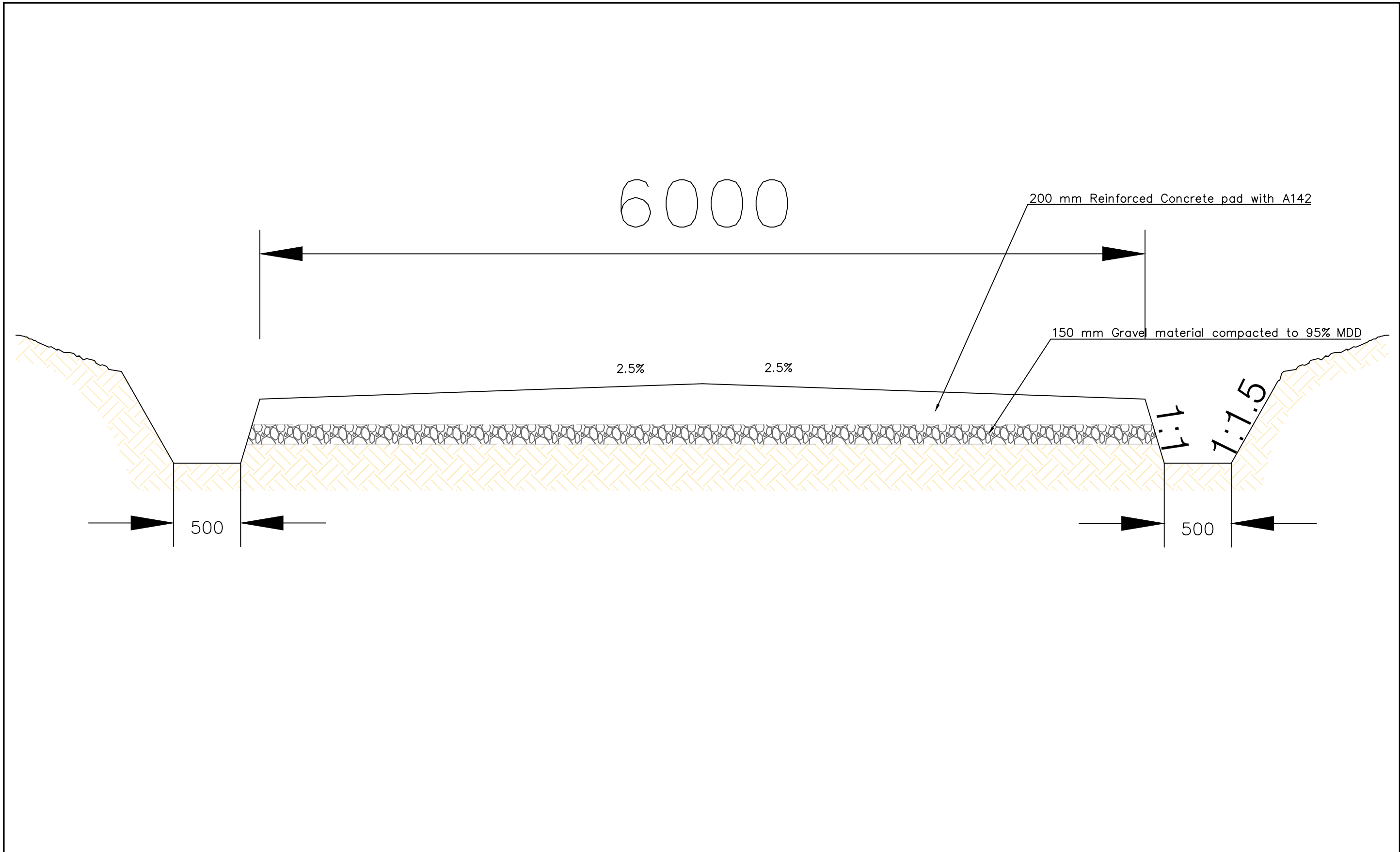


SPECIFICATIONS

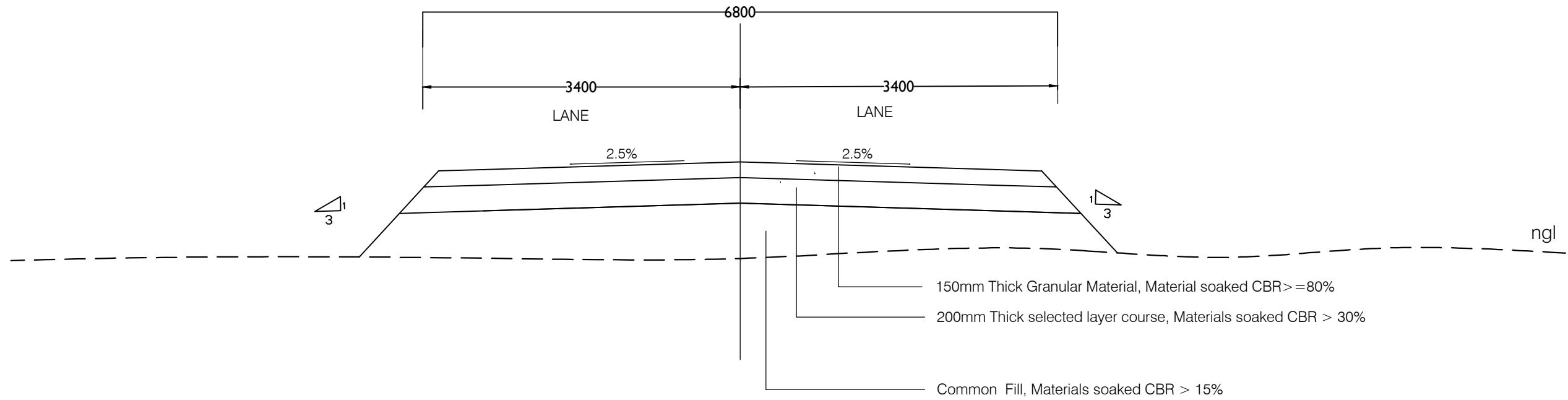
Stands	100mmx50mmx3250mm
Boards	300mmx25mmx1200mm
Gaps between board	= 50mm
Timber to be treated	soft wood
Writings to appear on	one side only
Lettering	
Standard sizes of black colour	on white background.

AMENDMENTS			LEGEND		CONSULTANT'S DETAIL:		CLIENT'S DETAIL:		DESIGNED		DRAWING TITLE		PROJECT STATUS	
NR.	DESCRIPTION	DATE			SUIDA & PARTNERS P.O Box 32345, Chichiri, Blantyre 3 Malawi Tel: + 888 343 523/ 999 343 523 Email info@suidamw.com		Southern Africa Trade Connectivity Project, Ministry of Transport and Public Works Capital Hill, Off Chilembwe Road private Bag 322, Lilongwe		Z. B		DETAILS OF PROJECT SIGN BOARD		<input type="radio"/> PLANNING <input type="radio"/> DESIGN <input type="radio"/> DRAWING <input type="radio"/> CONSTRUCTION <input type="radio"/> AS-BUILT <input type="radio"/> REVIEW	
1	REVISION 1	25-02-206							DESIGN CHECKED BY F. N. RENg SIGNATURE: _____ DATE: _____ DRAWN Z. B SIGNATURE: _____ DATE: _____ DRAWING CHECKED BY F. N. RENg SIGNATURE: _____ DATE: _____ DRAWING APPROVED BY MINISTRY SIGNATURE: _____ DATE: _____		DESCRIPTION OF PROJECT MW-MTPW-544351-CW-RFB/SPOT IMPROVEMENT AND INSTALLATION OF DRAINAGE STRUCTURES ON SENZANI-DOVIKO (T394/S125) ROAD(18KMS) IN NTCHEU DISTRICT-SECTION2(KM24-42)		PLANNING/PROJECT ENGINEER: _____ INSPECTOR OF WORKS: _____ REMARKS: _____ ORIGINAL PAPER SIZE: A1	
									CONTRACT No.: _____ PROJECT No.: _____ SCALE: 1:1000 DATE: NOVEMBER 2025		DRAWING NO: CON/2025/SP/SATCP-LM/PSB-001 SHEET NO: 1 OF 1		<input type="checkbox"/>	

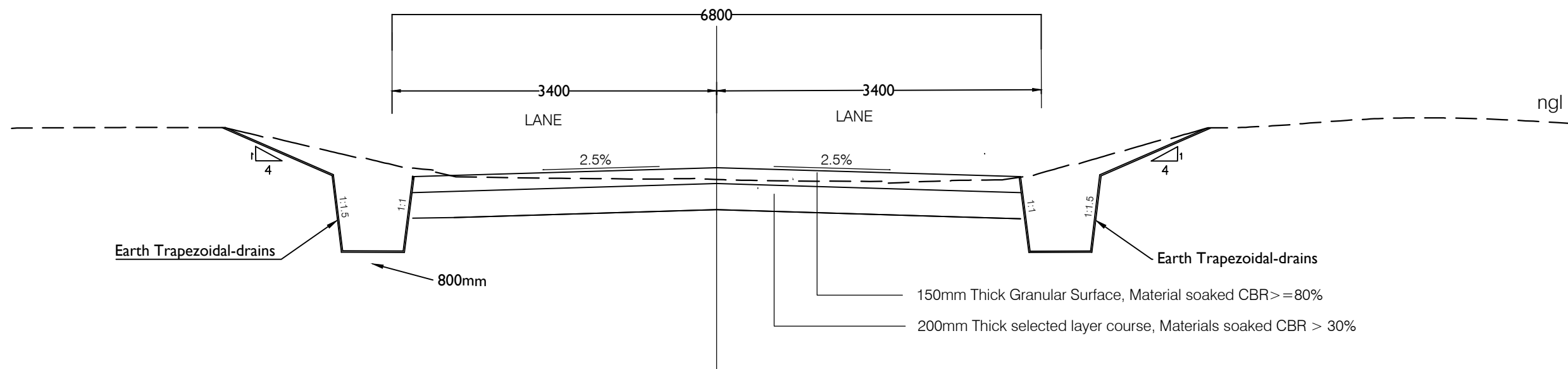
TYPICAL SECTIONS





AMENDMENTS			LEGEND		CONSULTANT'S DETAIL:		CLIENT'S DETAIL:		DESIGNED		DRAWING TITLE:		PROJECT STATUS	
NR.	DESCRIPTION	DATE			SUIDA & PARTNERS P.O Box 32345, Chichiri, Blantyre 3 Malawi Tel: + 888 343 523/ 999 343 523 Email info@suidamw.com		Southern Africal Trade Connectivity Project, Ministry of Transport and Public Works Capital Hill, Off Chilembwe Road private Bag 322, Lilongwe		Z. B		TYPICAL CROSS SECTION FOR CONCRETE PAD ROAD SURFACE		<input type="radio"/> CONSULTING <input type="radio"/> DESIGN <input type="radio"/> PLANNING/PROJECT ENGINEER <input type="radio"/> INSPECTOR OF WORKS <input type="radio"/> ORIGINAL PAPER SIZE: A1	
1	REVISION 1	25-02-206							DESIGN CHECKED BY F. N. REng		DESCRIPTION OF PROJECT MW-MTPW-544351-CW-RFB/SPOT IMPROVEMENT AND INSTALLATION OF DRAINAGE STRUCTURES ON SENZANI-DOVIKO (T394/SI25) ROAD(18KM5) IN NTCHEU DISTRICT-SECTION2(KM24-42)		PLANNING/PROJECT ENGINEER: _____ INSPECTOR OF WORKS: _____ REMARKS: _____ DATE: _____ DRAWING NO: _____ CONTRACT No.: _____ PROJECT No.: _____ SCALE: 1:1000 DATE: NOVEMBER 2025 CON/2025/SP/SATCP-LM/TS-301 SHEET NO: 1 OF 1	



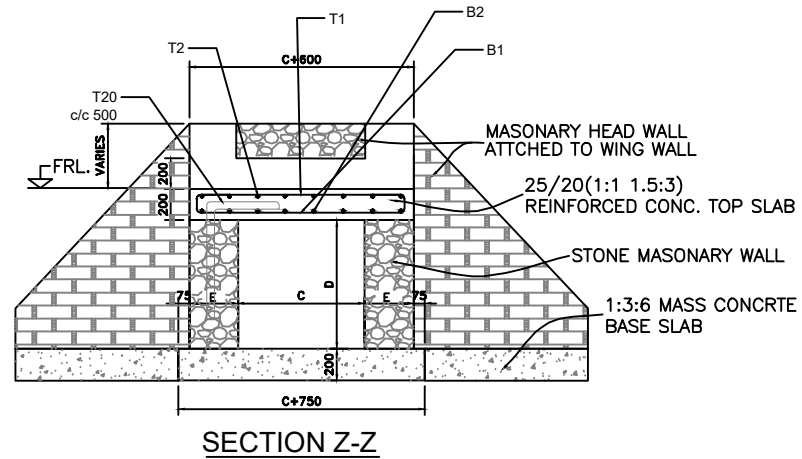
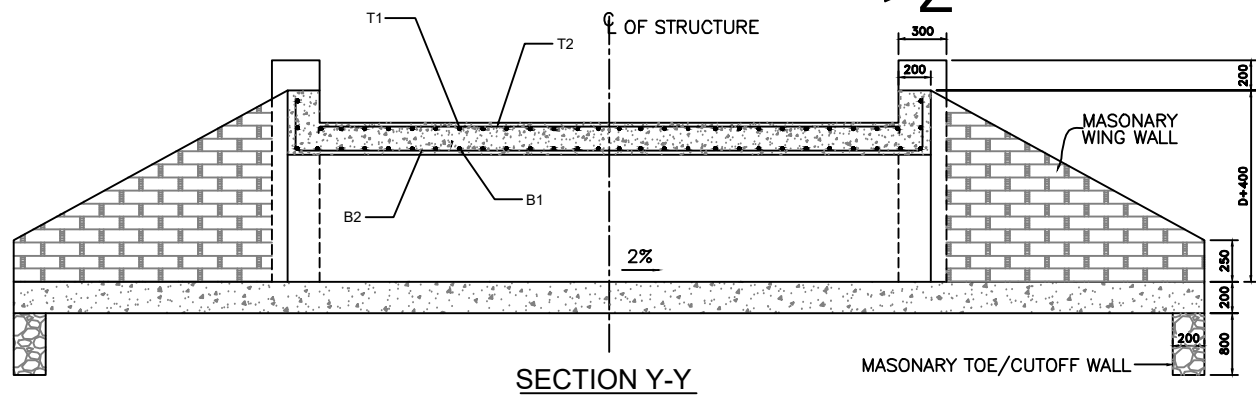
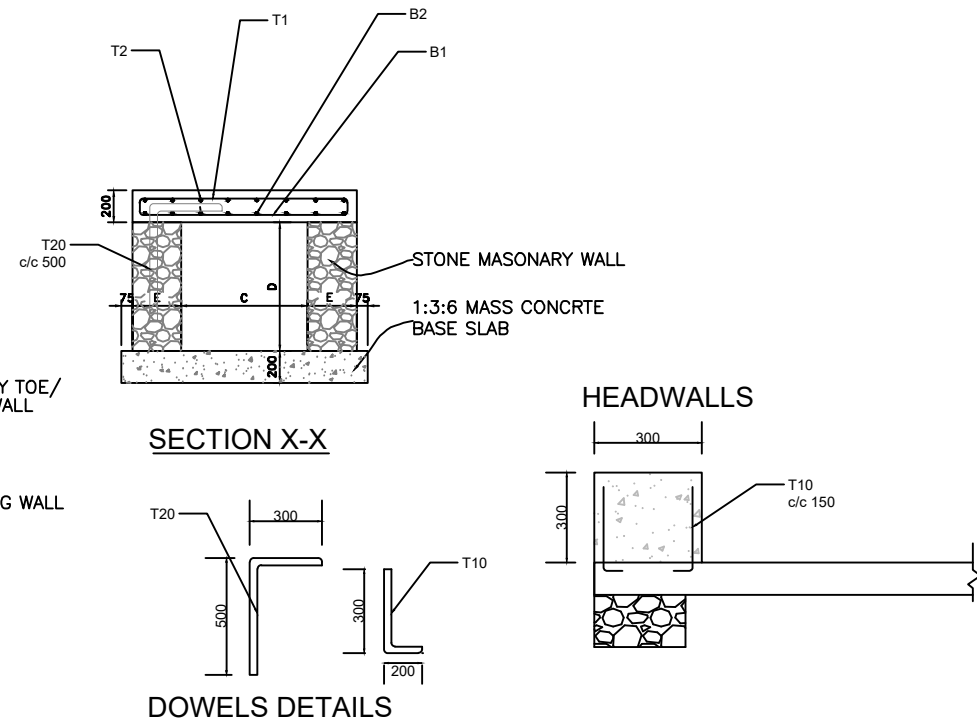
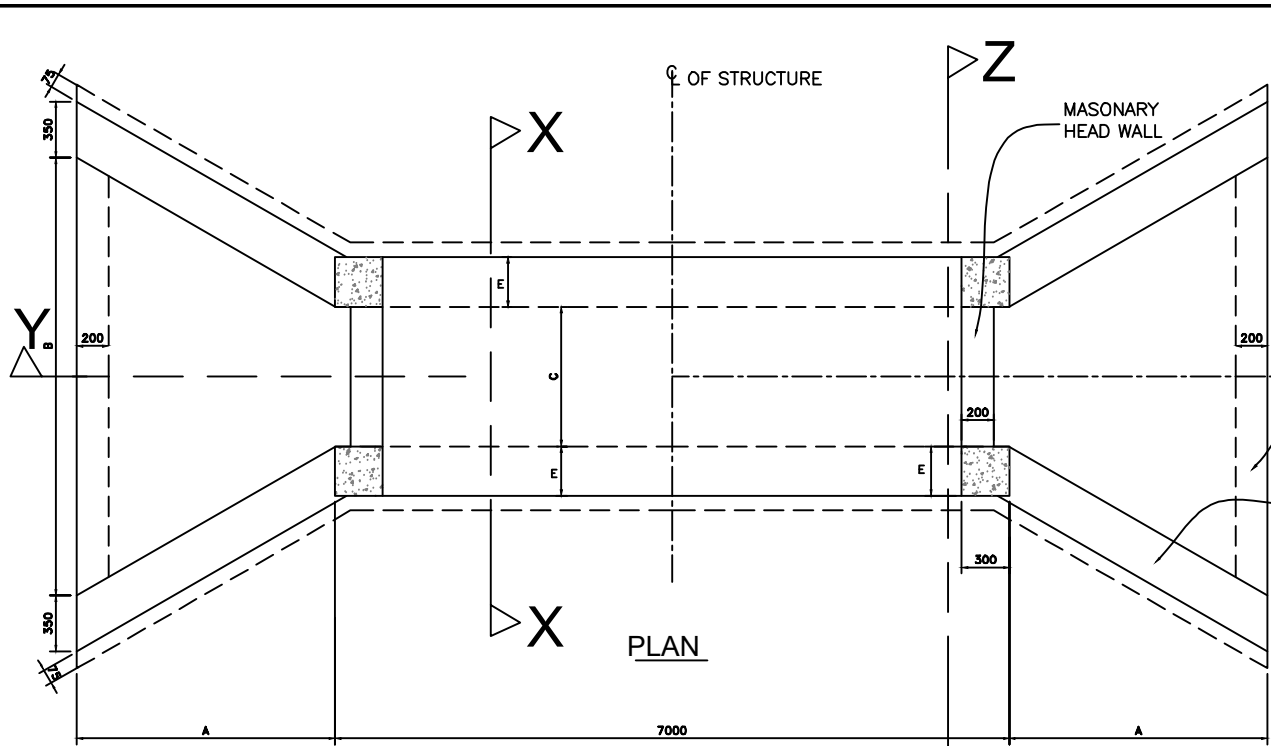
TYPICAL CROSS SECTION IN FILL



TYPICAL CROSS SECTION IN CUT

AMENDMENTS			LEGEND	CONSULTANT'S DETAIL:	CLIENT'S DETAIL:	DESIGNED	DRAWING TITLE:	PROJECT STATUS					
NR.	DESCRIPTION	DATE				Z. B	TYPICAL CROSS SECTION FOR DESIGNATED ROAD	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
1	REVISION 1	25-02-2026		 <p>SUIDA & PARTNERS P.O Box 32345, Chichiri, Blantyre 3 Malawi Tel: + 888 343 523/ 999 343 523 Email info@suidamw.com</p>	 <p>Southern Africa Trade Connectivity Project, Ministry of Transport and Public Works Capital Hill, Off Chilembwe Road private Bag 322, Lilongwe</p>	DESIGNER: Z. B DESIGN CHECKED BY: F. N. RENg DRAWN: Z. B DRAWING CHECKED BY: F. N. RENg DRAWING APPROVED BY: MINTY	DESCRIPTION OF PROJECT: MW-MTPW-544351-CW-RFB/SPOT IMPROVEMENT AND INSTALLATION OF DRAINAGE STRUCTURES ON SENZANI-DOVIKO (T394/S125) ROAD(18KMs) IN NTCHU DISTRICT-SECTION2(KM24-42)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	PLANNING/PROJECT ENGINEER: INSPECTOR OF WORKS: REMARKS: ORIGINAL PAPER SIZE: A1	DRAWING NO: CONTRACT No.: PROJECT No.: SCALE: 1:1000 DATE: NOVEMBER 2025 CON/2025/SP/SATCP-LM/TS-304 SHEET NO: 1 OF 1

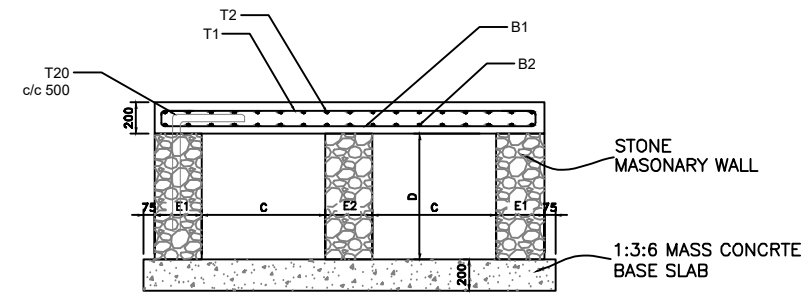
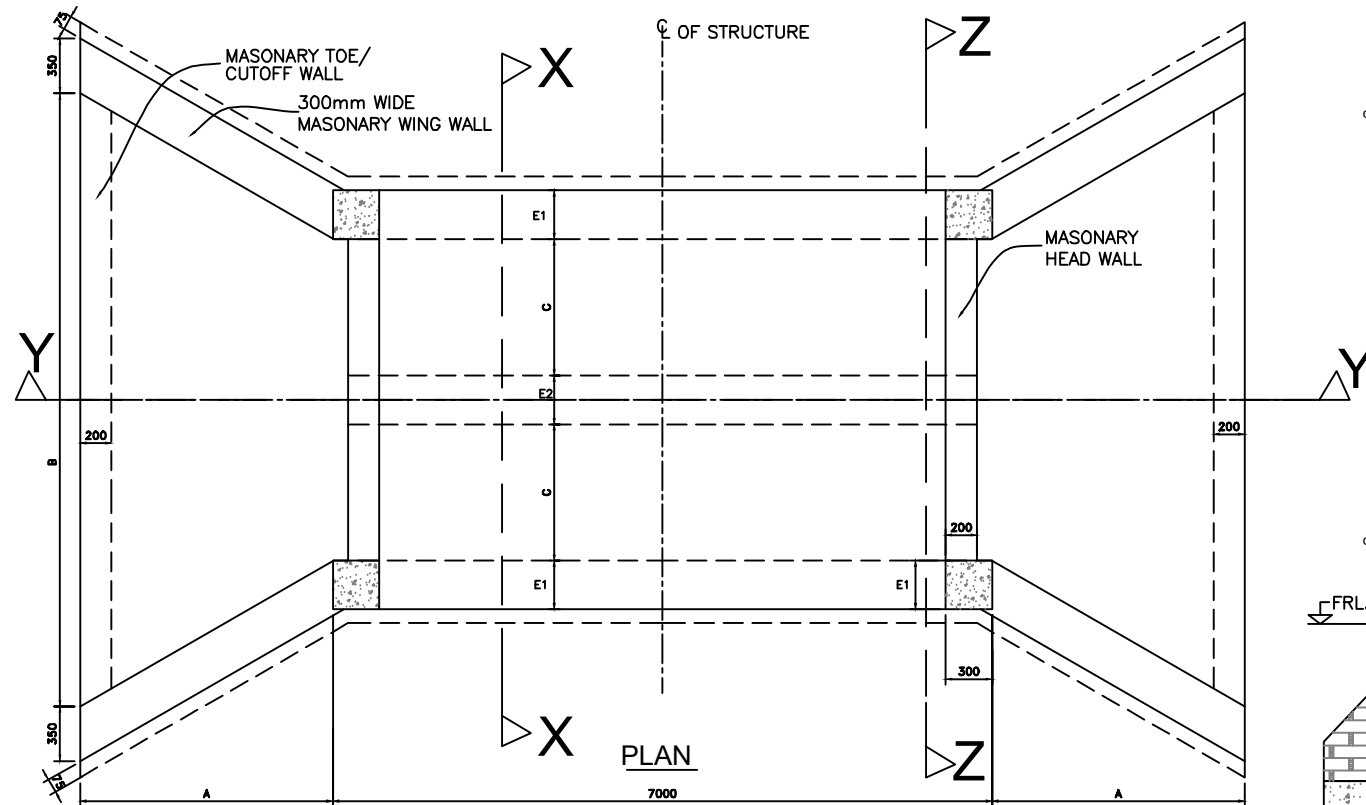
DRAINAGE STRUCTURES



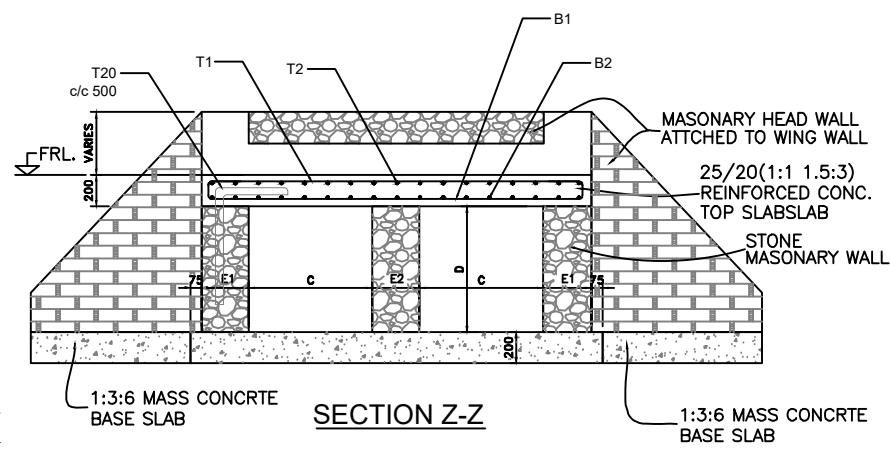
FOR 1M WIDTH SINGLE CELL BOX																
CULVERT TYPE	DIMENSIONS (MM)					NO. OF CELLS	SLAB THK. (MM)	BAR MARK	M1 (MM)	M2 (MM)	NO. OF BARS	BAR MARK	M1 (MM)	M2 (MM)	NO. OF BARS	BAR DESCRIPTION
	A	B	C	D	E											
BC1	2000	5600	1000	1000	300	1	200	B1	120	920	48	B2	120	6920	7	T10-01-150
								T1	120	920	48	T2	120	6920	7	T10-01-150
BC2	2400	6895	1500	1000	300	1	200	B1	120	1420	48	B2	120	6920	11	T12-01-150
								T1	120	1420	48	T2	120	6920	11	T10-01-150
BC3	2400	6895	1500	1500	500	1	200	B1	120	1420	48	B2	120	6920	11	T12-01-150
								T1	120	1420	48	T2	120	6920	11	T10-01-150
BC4	2800	8200	2000	1000	500	1	200	B1	120	1920	48	B2	120	6920	14	T12-01-150
								T1	120	1920	48	T2	120	6920	14	T12-01-150
BC5	2800	8200	2000	2000	600	1	200	B1	120	1920	48	B2	120	6920	14	T12-01-150
								T1	120	1920	48	T2	120	6920	14	T12-01-150

NOTES :-
 . ALL DIMENSIONS ARE IN MILLI METRES UNLESS OTHERWISE SPECIFIED.
 . ARRANGEMENT FOR COMBINATIONS OF MULTIPLE BOX CULVERTS TO BE DETERMINED BY THE

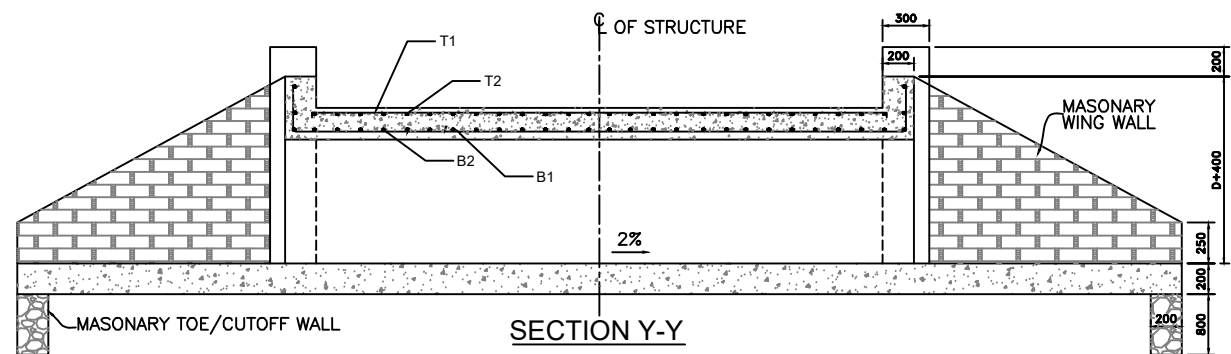
AMENDMENTS			LEGEND		CONSULTANT'S DETAIL:		CLIENT'S DETAIL:		DESIGNED		DRAWING TITLE		PROJECT STATUS	
NR.	DESCRIPTION	DATE			SUIDA & PARTNERS P.O Box 32345, Chichiri, Blantyre 3 Malawi Tel: + 888 343 523/ 999 343 523 Email info@suidamw.com		Southern Africa Trade Connectivity Project, Ministry of Transport and Public Works Capital Hill, Off Chilembwe Road private Bag 322, Lilongwe		Z. B		STANDARD SINGLE CELL BOX CULVERT DETAILS		<input type="radio"/> DESIGN <input type="radio"/> CHECKED <input type="radio"/> APPROVED <input type="radio"/> AS-BUILT	
1	REVISION 1	25-02-208							DESIGN CHECKED BY		DESCRIPTION OF PROJECT		PLANNING/PROJECT ENGINEER: INSPECTOR OF WORKS: REMARKS: ORIGINAL PAPER SIZE:	
									Z. B		MW-MTPW-544351-CW-RFB/SPOT IMPROVEMENT AND INSTALLATION OF DRAINAGE STRUCTURES ON SENZANI-DOVIKO (T394/S125) ROAD(18KMS) IN NTCHEU DISTRICT-SECTION2(KM24-42)		NOVEMBER 2025 CON/2025/SP/SATCP-LM/SBC-001	
									DRAWING APPROVED BY		SCALE: 1:1000		SHEET NO: 1 OF 1 ORIGINAL PAPER SIZE: A1	



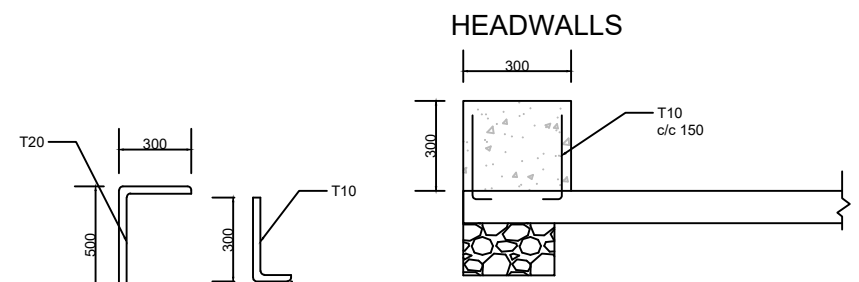
SECTION X-X



SECTION Z-Z



SECTION Y-Y

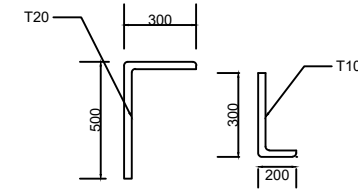
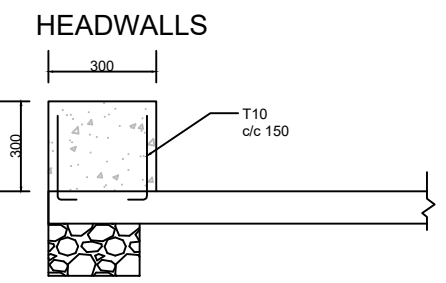
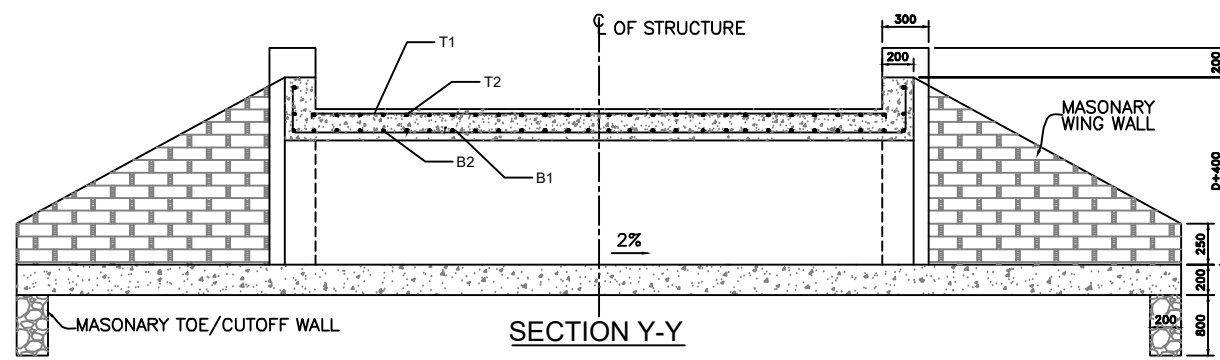
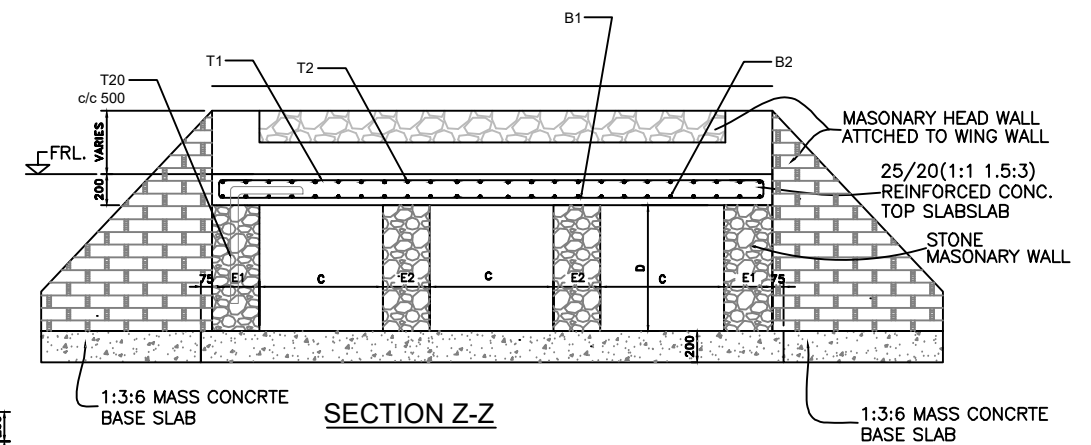
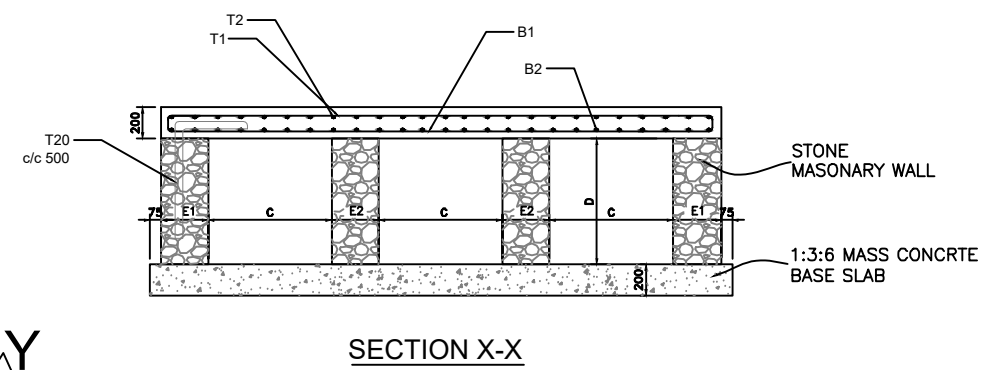
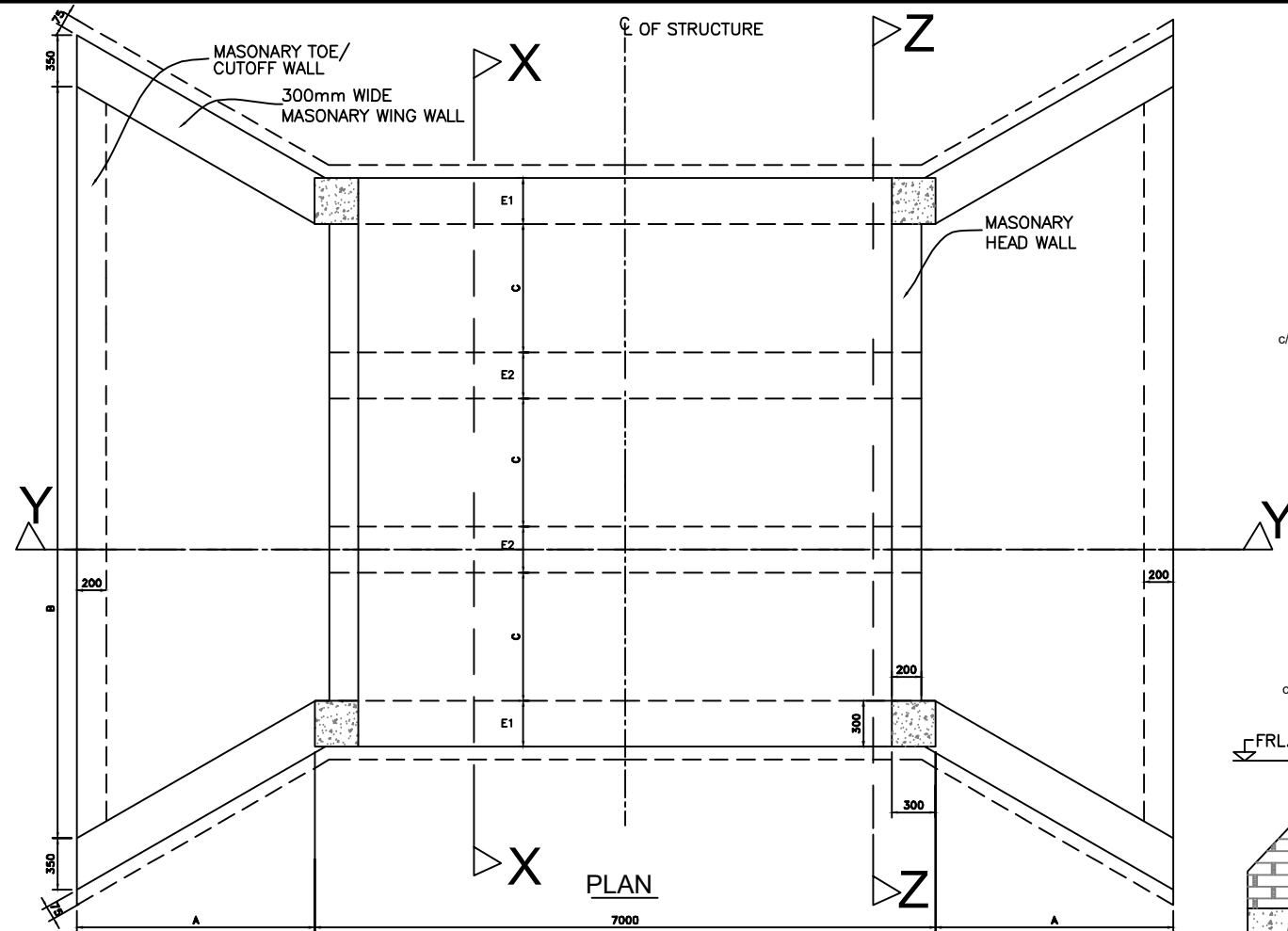


DOWELS DETAILS

NOTES :-
 . ALL DIMENSIONS ARE IN MILLI METRES UNLESS OTHERWISE SPECIFIED.
 . ARRANGEMENT FOR COMBINATIONS OF MULTIPLE BOX CULVERTS TO BE DETERMINED BY THE SUPERVISION ENGINEER ON SITE

CULVERT TYPE	FOR 1M WIDTH SINGLE CELL BOX											BAR DESCRIPTION					
	DIMENSIONS (MM)						NO. OF CELLS	SLAB THK. (MM)	BAR MARK	M1	M2		NO. OF BARS	BAR MARK	M1	M2	NO. OF BARS
	A	B	C	D	E1	E2				(MM)	(MM)				(MM)	(MM)	
BC6	2400	10200	1500	1500	500	600	2	200	B1	120	4520	48	B2	120	6920	31	T12-01-150
									T1	120	4520	48	T2	120	6920	31	T10-01-150

AMENDMENTS NR. DESCRIPTION DATE 1 REVISION 1 25-02-2018			LEGEND			CONSULTANT'S DETAIL: SUIDA & PARTNERS P.O Box 32345, Chichiri, Blantyre 3 Malawi Tel: + 888 343 523/ 999 343 523 Email info@suidamw.com			CLIENT'S DETAIL: Southern African Trade Connectivity Project, Ministry of Transport and Public Works Capital Hill, Off Chilimbwe Road private Bag 322, Lilongwe			DESIGNED: Z. B DESIGN CHECKED BY: F. N. REng DRAWN: Z. B DRAWING CHECKED BY: F. N. REng DRAWING APPROVED BY: F. N. REng			DRAWING TITLE: STANDARD DOUBLE CELL BOX CULVERT DETAILS DESCRIPTION OF PROJECT: MW-MTPW-544351-CW-RFB/SPOT IMPROVEMENT AND INSTALLATION OF DRAINAGE STRUCTURES ON SENZANI-DOVIKO (T394/S125) ROAD(18KM5) IN NTCHEU DISTRICT-SECTION2(KM24-42)			PROJECT STATUS PLANNING PROJECT ENGINEER: _____ INSPECTOR OF WORKS: _____ REMARKS: _____ ORIGINAL PAPER SIZE: A1 SHEET NO: 1 OF 1		
CONTRACT No.: _____ PROJECT No.: _____ SCALE: 1:1000 DATE: NOVEMBER 2025 DRAWING NO: CON/2025/SP/SATCP-LM/SBC-002																				



DOWELS DETAILS

NOTES :-
 . ALL DIMENSIONS ARE IN MILLI METRES UNLESS OTHERWISE SPECIFIED.
 . ARRANGEMENT FOR COMBINATIONS OF MULTIPLE BOX CULVERTS TO BE DETERMINED BY THE SUPERVISION ENGINEER ON SITE

CULVERT TYPE	DIMENSIONS (MM)						NO. OF CELLS	SLAB THK. (MM)	BAR MARK	M1		M2		NO. OF BARS	BAR MARK	M1		M2		NO. OF BARS	BAR DESCRIPTION					
	A	B	C	D	E1	E2				(MM)	(MM)	(MM)	(MM)			(MM)	(MM)	(MM)	(MM)			(MM)	(MM)			
	BC7	2800	13600	2000	1000	500				600	3	200	B1			120	7920	48	B2			120	6920	54	T12-01-150	T1
BC8	2800	13600	2000	2000	500	800	3	200	B1	120	7920	48	B2	120	6920	54	T12-01-150	T1	120	7920	48	T2	120	6920	54	T12-01-150

AMENDMENTS		
NR.	DESCRIPTION	DATE
1	REVISION 1	25-02-2018


LEGEND	

CONSULTANT'S DETAIL:



SUIDA & PARTNERS
 P.O Box 32345, Chichiri, Blantyre 3
 Malawi
 Tel: + 888 343 523/ 999 343 523
 Email info@suidamw.com

CLIENT'S DETAIL:



Southern African Trade Connectivity Project,
 Ministry of Transport and Public Works
 Capital Hill, Off Chilembwe Road
 private Bag 322, Lilongwe

DESIGNED BY: Z. B. [Signature]

DESIGN CHECKED BY: F. N. RENg [Signature]

DRAWN BY: Z. B. [Signature]

DRAWING CHECKED BY: F. N. RENg [Signature]

DRAWING APPROVED BY: [Signature]

DRAWING TITLE: STANDARD THREE CELL BOX CULVERT DETAILS

DESCRIPTION OF PROJECT: MW-MTPW-544351-CW-RFB/SPOT IMPROVEMENT AND INSTALLATION OF DRAINAGE STRUCTURES ON SENZANI-DOVIKO (T394/S125) ROAD(18KM5) IN NTCHEU DISTRICT-SECTION2(KM24-42)

CONTRACT No.: [Blank]

PROJECT No.: [Blank]

SCALE: 1:1000

DATE: NOVEMBER 2025

PROJECT STATUS

PLANNING/PROJECT ENGINEER: [Signature]

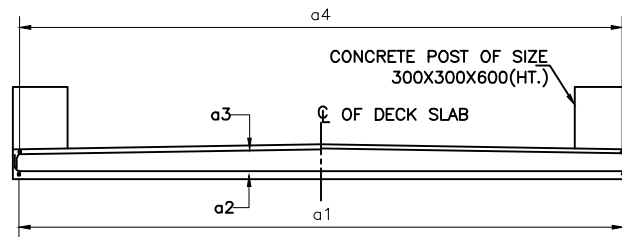
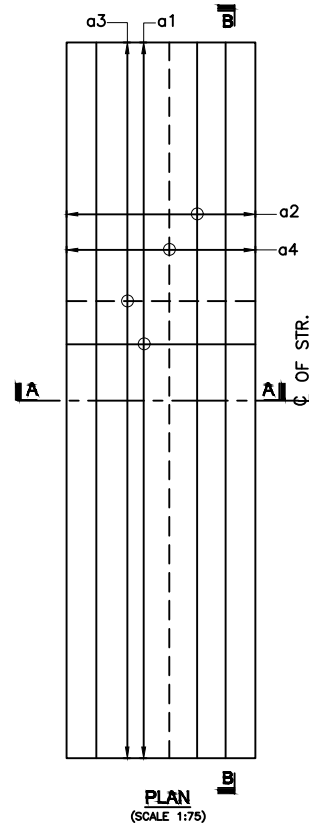
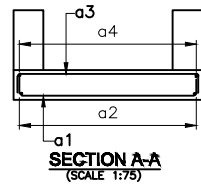
INSPECTOR OF WORKS: [Signature]

REMARKS: [Blank]

ORIGINAL PAPER SIZE: A1

DRAWING NO: [Blank]

SHEET NO: 1 OF 1



SECTION B-B
(SCALE 1:75)

LEGEND :

TOP BARS SHOWN THUS
 BOTTOM BARS SHOWN THUS

TABLE OF BAR BENDING SCHEDULE FOR SLAB HAVING SPAN 2000mm. :-

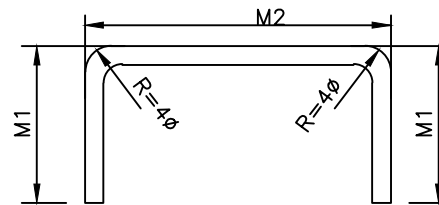
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REIN. SCHEDULE :-

SL. NO.	DESCRIPTION	SHAPE
	FOR SPAN 2000mm.	
a1	16Y @ 150 c/c	
a2	8Y @ 150 c/c	
a3	10Y @ 250 c/c	
a4	10Y @ 250 c/c	

TABLE FOR SLAB :-

SL. NO.	SPAN (mm)	THICKNESS OF SLAB (mm)
1	2000	250 To 300



NOTES :-

- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES UNLESS NOTED OTHERWISE.
- DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
- CONCRETE GRADE FOR RCC PRECAST GIRDER SHALL BE CLASS 40/20.
- GRADE OF STEEL SHALL BE H.Y.S.D. GRADE 460
- THE CONCRETE COVER FOR REINFORCEMENT SHALL BE 40mm.
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH OTHER SHEETS OF THIS DRAWING.
- FOR ALL OTHER NOTES REFER 'GENERAL NOTES' DRAWING.

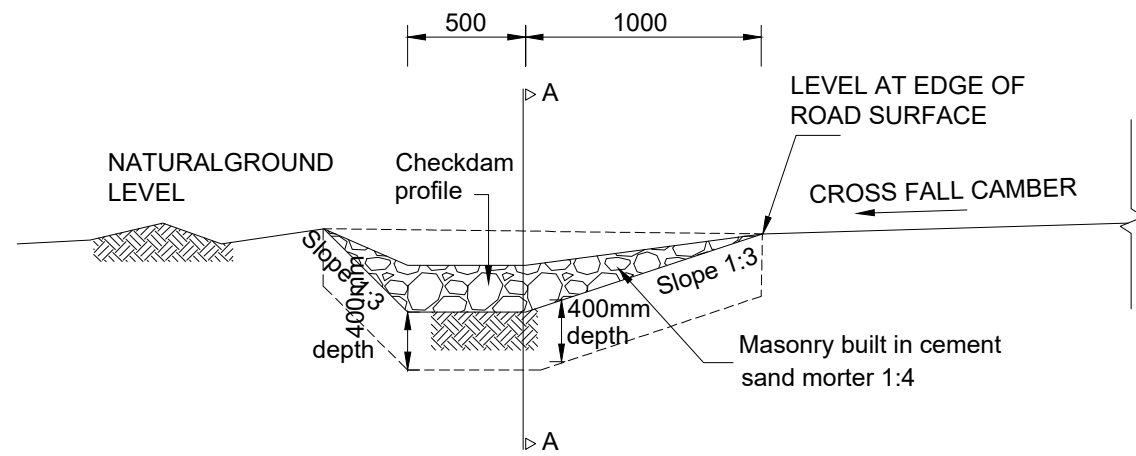
AMENDMENTS			LEGEND		CONSULTANT'S DETAIL:		CLIENT'S DETAIL:		DESIGNED		DRAWING TITLE:		PROJECT STATUS	
NR.	DESCRIPTION	DATE			SUIDA & PARTNERS P.O Box 32345, Chichiri, Blantyre 3 Malawi Tel: + 888 343 523/ 999 343 523 Email info@suidamw.com		Southern Africal Trade Connectivity Project, Ministry of Transport and Public Works Capital Hill, Off Chilembwe Road private Bag 322, Lilongwe		Z. B		REINFORCEMENT DETAIL OF TOPSLAB OF MASONRY WALL BOX CULVERT		<input type="radio"/> CONSULTANT DRAWING <input type="radio"/> DESIGNER DRAWING <input type="radio"/> PROJECT ENGINEER DRAWING <input type="radio"/> ASSEMBLY DRAWING	
1	REVISION 1	25-02-2008			 SUIDA & PARTNERS <small>ARCHITECTURE - CIVIL ENGINEERING - ELECTRICAL ENGINEERING - MECHANICAL ENGINEERING - PROJECT MANAGEMENT</small>		 Southern Africal Trade Connectivity Project, Ministry of Transport and Public Works Capital Hill, Off Chilembwe Road private Bag 322, Lilongwe		DESIGN CHECKED BY F. N. RENg DATE: _____ SIGNATURE: _____		DESCRIPTION OF PROJECT MW-MTPW-544351-CW-RFB/SPOT IMPROVEMENT AND INSTALLATION OF DRAINAGE STRUCTURES ON SENZANI-DOVIKO (T394/S125) ROAD(18KM5) IN NTCHEU DISTRICT-SECTION2(KM24-42)		PLANNING/PROJECT ENGINEER: _____ INSPECTOR OF WORKS: _____ REMARKS: _____ ORIGINAL PAPER SIZE: A1	
									DRAWING APPROVED BY MINISTRY		CONTRACT No.:		PROJECT No.:	
									SIGNATURE: _____		SCALE: 1:1000		DATE: NOVEMBER 2025	
											DRAWING NO. CON/2025/SP/SATCP-LM/SBC-004		SHEET NO. 1 OF 1	

STANDARD DRAWINGS

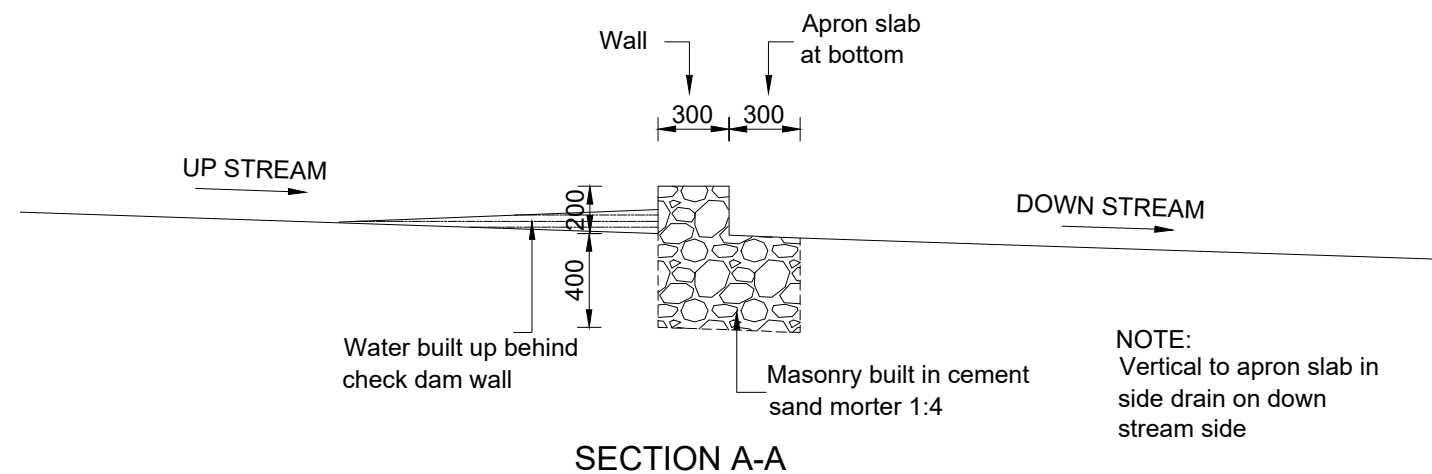
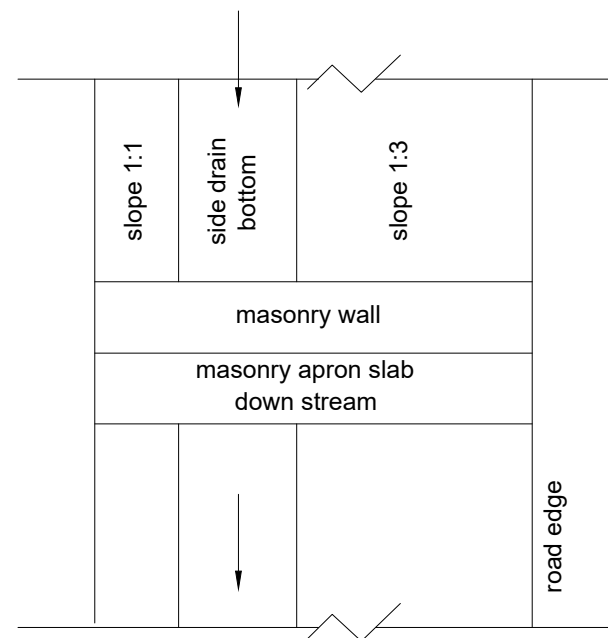
NOTE: Check dam to be used where soil is erodable and as indicated in the table below

TABLE SCOUR CHECK SPACING

GRADIENT OF ROAD (%)	SCOUR CHECK INTERNAL (m)
3	Not Required
4	17
5	13
6	10
7	8
8	7
9	6
10	5
12	4

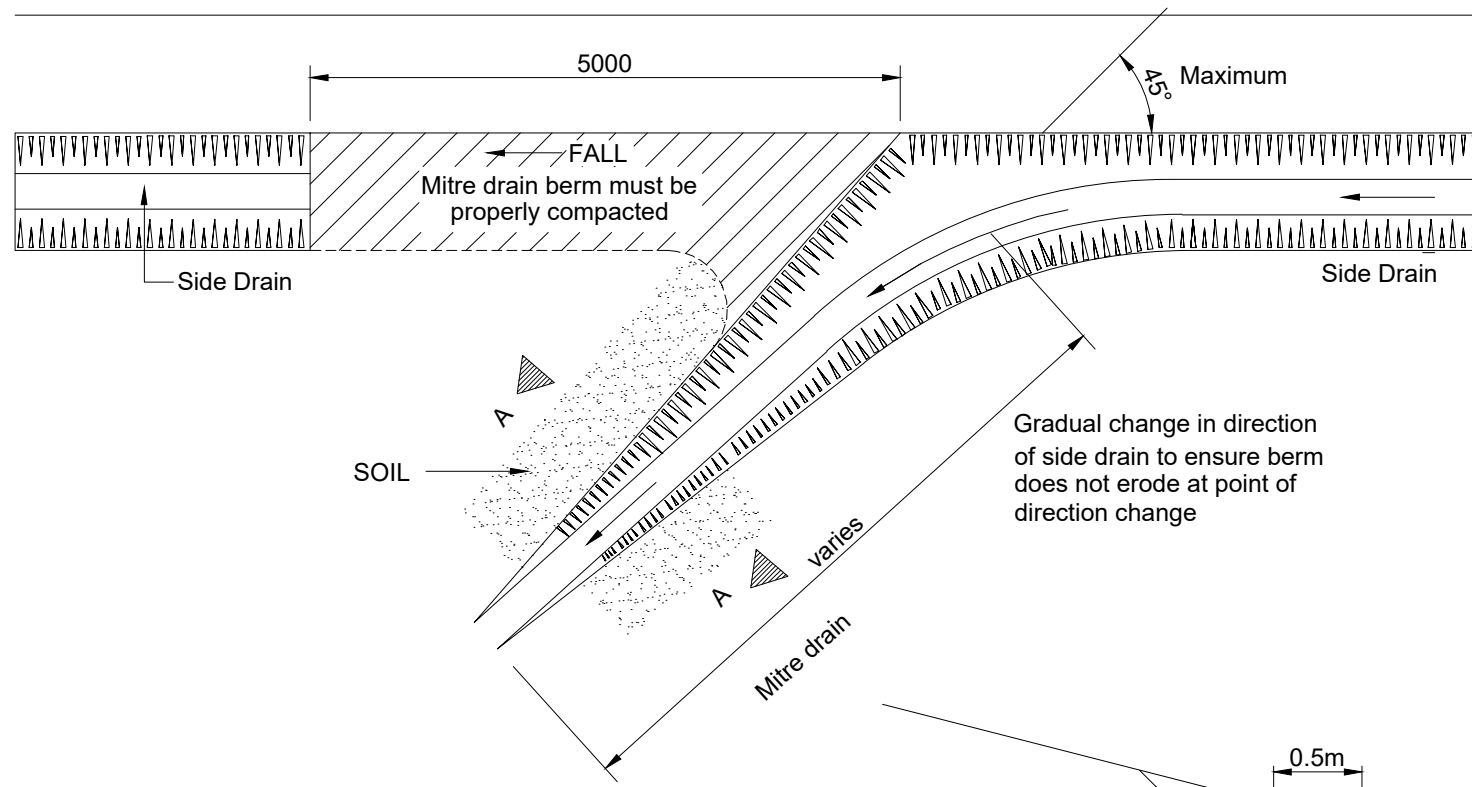


SIDE DRAIN ELEVATION WITH CHECK DAM CONSTRUCTED

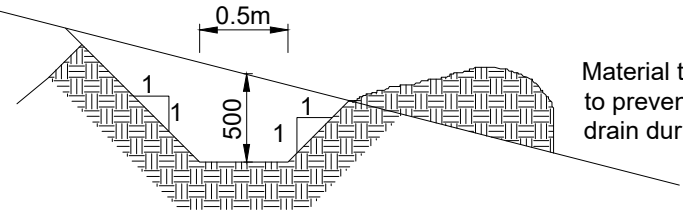


SECTION A-A

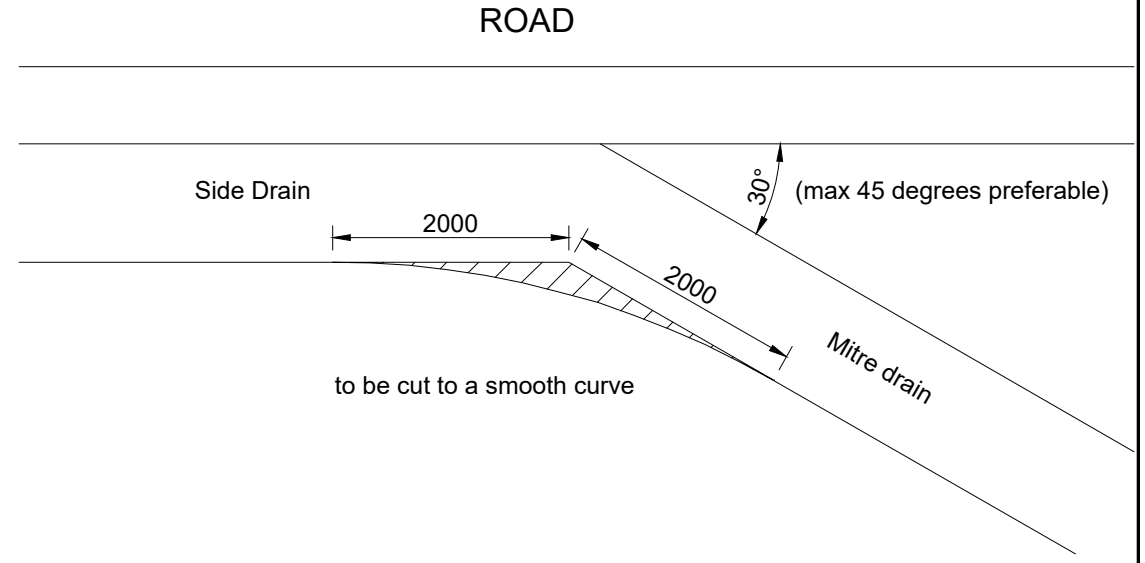
AMENDMENTS			PLAN	CONSULTANT'S DETAIL:	CLIENT'S DETAIL:	DESIGNED Z. B	DRAWING TITLE: TYPICAL DETAILS OF MASONRY CHECK DAMS	PROJECT STATUS				
NR.	DESCRIPTION	DATE						DESIGNED BY Z. B	DESIGNED DATE	DESIGNED	REVISION	DATE
1	REVISION 1	25-02-2018		 SUIDA & PARTNERS P.O Box 32345, Chichiri, Blantyre 3 Malawi Tel: + 888 343 523/ 999 343 523 Email info@suidamw.com	 Southern Africal Trade Connectivity Project, Ministry of Transport and Public Works Capital Hill, Off Chilembwe Road private Bag 322, Lilongwe	F. N. RENg DATE: _____ DRAWING CHECKED BY F. N. RENg DATE: _____ DRAWING APPROVED BY MINISTRY DATE: _____	MW-MTPW-544351-CW-RFB/SPOT IMPROVEMENT AND INSTALLATION OF DRAINAGE STRUCTURES ON SENZANI-DOVIKO (T394/S125) ROAD(18KM5) IN NTCHEU DISTRICT-SECTION2(KM24-42)	<input type="checkbox"/> CONSULTING ENGINEER <input type="checkbox"/> DESIGNER <input type="checkbox"/> CHECKER <input type="checkbox"/> APPROVED	PLANNING/PROJECT ENGINEER: _____ DATE: _____	INSPECTOR OF WORKS: _____ DATE: _____	REMARKS: _____	ORIGINAL PAPER SIZE: A1
												CONTRACT No.: _____ PROJECT No.: _____ SCALE: 1:1000 DATE: NOVEMBER 2025 DRAWING NO: CON/2025/SP/SATCP-LM/DRN-01 SHEET NO: 1 OF 1



PLAN OF COMPLETED MITRE DRAIN

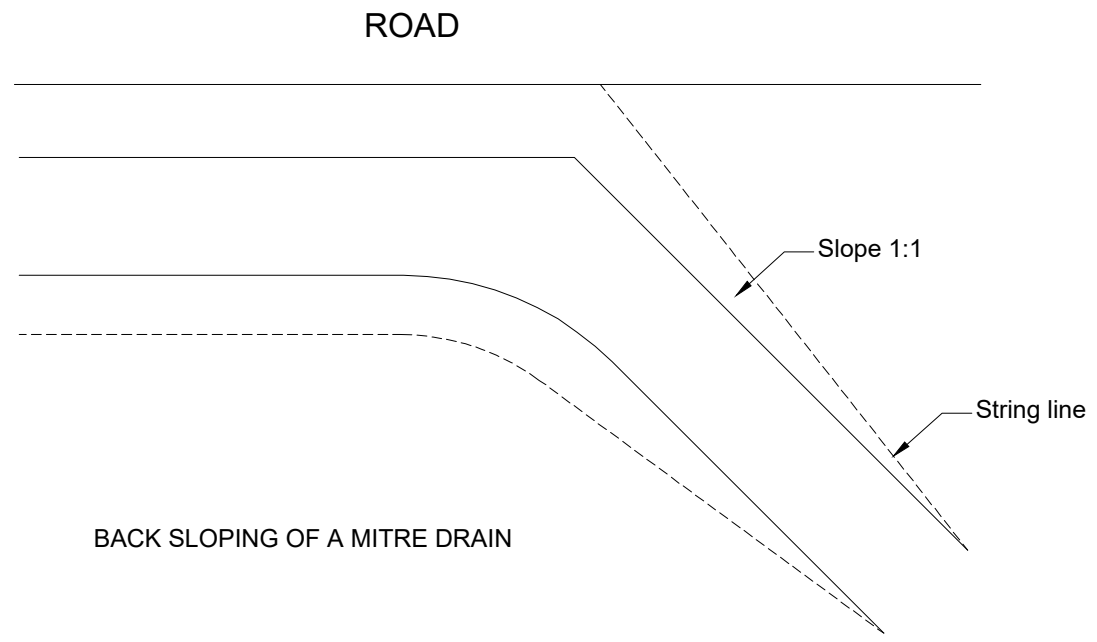


SECTION A-A



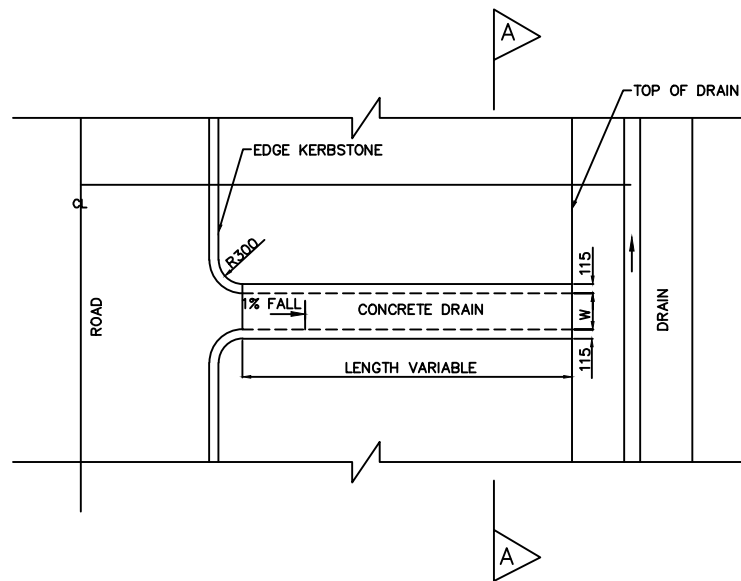
SPACING OF MITRES

Longitudinal Road Gradient (%)	Maximum Mitre Drain Interval (M)
12	40
10	80
8	120
6	150
4	200

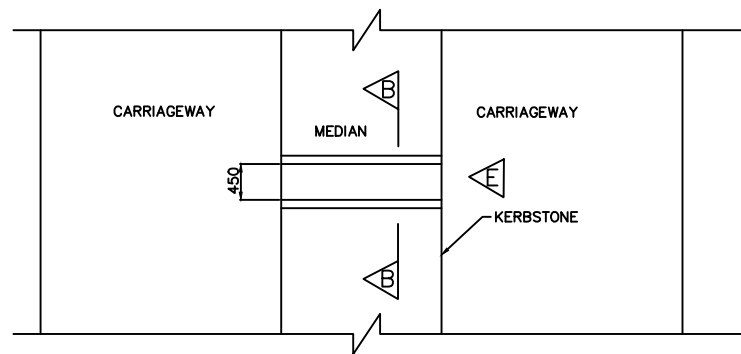


BACK SLOPING OF A MITRE DRAIN

AMENDMENTS			LEGEND		CONSULTANT'S DETAIL:		CLIENT'S DETAIL:		DESIGNED		DRAWING TITLE:		PROJECT STATUS	
NR.	DESCRIPTION	DATE			SUIDA & PARTNERS		Southern Africa Trade Connectivity Project,		Z. B		TYPICAL DETAILS OF MASONRY MITRE DRAIN		<input type="radio"/> DESIGN <input type="radio"/> CHECKED <input type="radio"/> APPROVED <input type="radio"/> AS-BUILT	
1	REVISION 1	25-02-2018			 P.O Box 32345, Chichiri, Blantyre 3 Malawi Tel: + 888 343 523/ 999 343 523 Email info@suidamw.com		 Ministry of Transport and Public Works Capital Hill, Off Chilembwe Road private Bag 322, Lilongwe		F. N. REng DATE: _____ F. N. REng DATE: _____ F. N. REng DATE: _____		MW-MTPW-544351-CW-RFB/SPOT IMPROVEMENT AND INSTALLATION OF DRAINAGE STRUCTURES ON SENZANI-DOVIKO (T394/S125) ROAD(18KM5) IN NTCHEU DISTRICT-SECTION2(KM24-42)		PLANNING/PROJECT ENGINEER: _____ INSPECTOR OF WORKS: _____ REMARKS: _____ ORIGINAL PAPER SIZE: A1	
					 SUIDA & PARTNERS PROJECTS • PLANNING • MANAGEMENT		 Southern Africa Trade Connectivity Project, Ministry of Transport and Public Works Capital Hill, Off Chilembwe Road private Bag 322, Lilongwe		DRAWING APPROVED BY MINISTRY: _____ CONTRACT No.: _____ PROJECT No.: _____ SCALE: 1:1000 DATE: NOVEMBER 2025 DRAWING NO: CON/2025/SP/SATCP-LM/DRN-02 SHEET NO: 1 OF 1		NOVEMBER 2025 CON/2025/SP/SATCP-LM/DRN-02 1 OF 1		A1 	

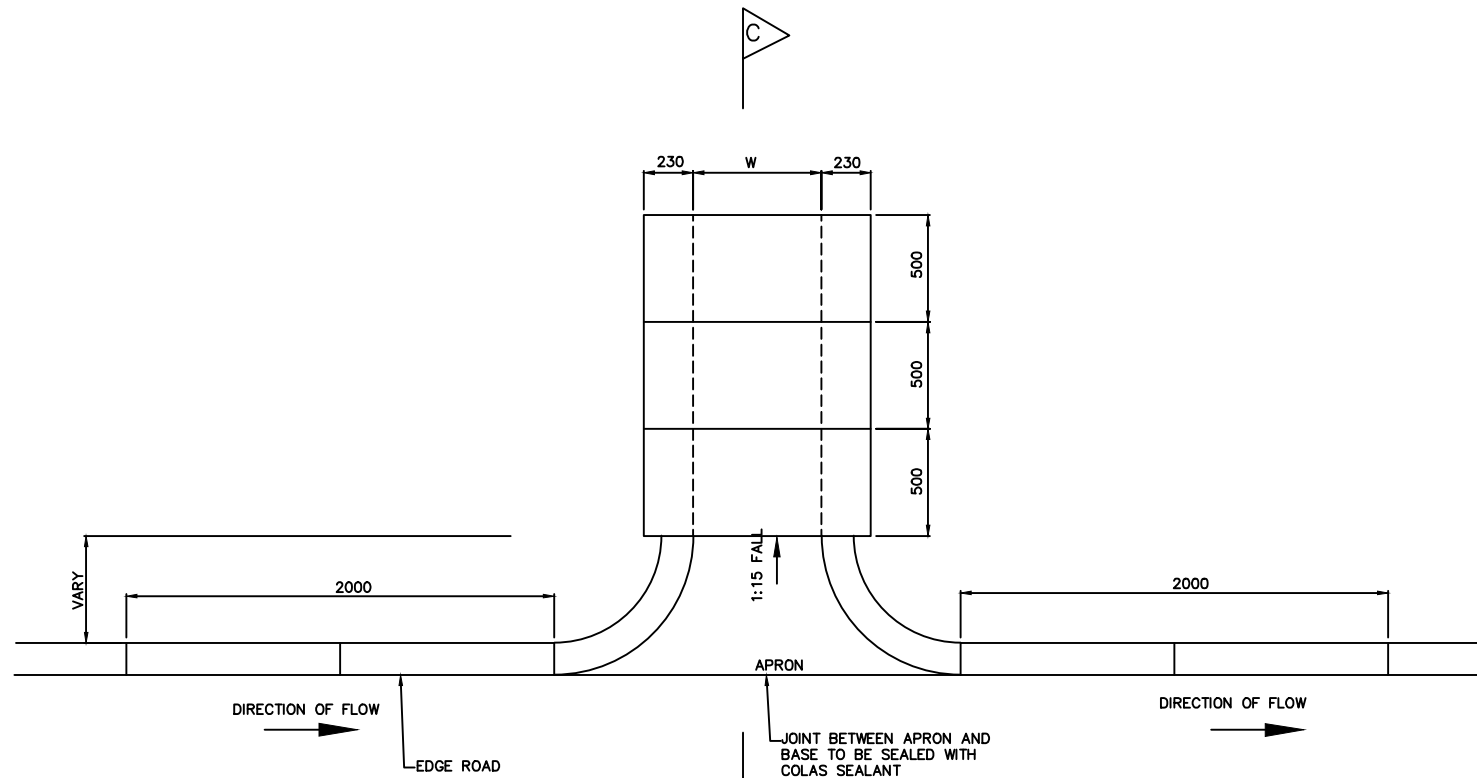


TYPICAL CONCRETE OUTLETS AND CHUTE PLANE



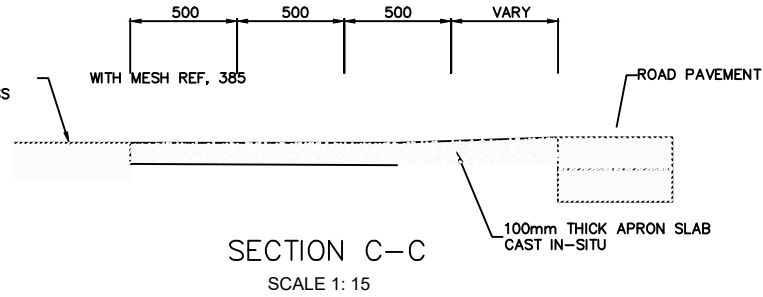
DUAL CARRIAGE ROAD PLAN

SCALE 1: 40



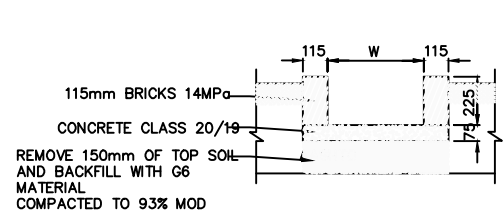
TYPICAL PLAN AT OUTLETS
SCALE 1: 15

COVER TO OUTLET AT WALKWAY CONCRETE CLASS 20/19

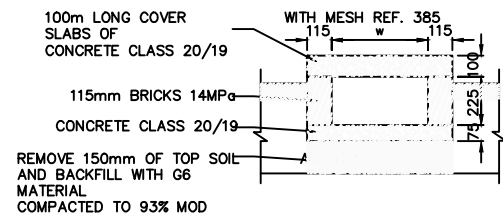


SECTION C-C
SCALE 1: 15

CHUTE	COVER	W
TYPE 1	OPEN	W=450
TYPE 2	COVERED	W=450
TYPE 3	COVERED	W=600

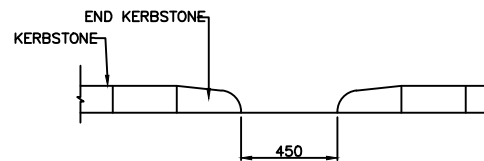


SECTION A-A OPEN CHUTES

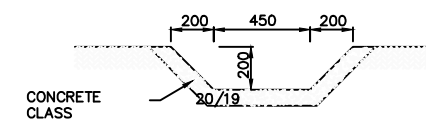


SECTION A-A COVERED CHUTE
SCALE 1: 15

IN WALKWAYS



ELEVATION E
SCALE 1: 15



SECTION B-B

AMENDMENTS		
NR.	DESCRIPTION	DATE
1	REVISION 1	25-02-2006


LEGEND	

CONSULTANT'S DETAIL:



SUIDA & PARTNERS
P.O Box 32345, Chichiri, Blantyre 3
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Tel: + 888 343 523/ 999 343 523
Email info@suidamw.com

CLIENT'S DETAIL:



Southern African Trade Connectivity Project,
Ministry of Transport and Public Works
Capital Hill, Off Chilembwe Road
private Bag 322, Lilongwe

DESIGNED
Z. B

DESIGN CHECKED BY
F. N. RENg

DRAWN
Z. B. NDOLO

DRAWING CHECKED BY
F. N. RENg

DRAWING APPROVED BY MINISTRY

DRAWING TITLE:
STANDARD DRAWINGS: STORMWATER DRAINAGE DETAILS INLETS, OUTLETS AND CHUTES

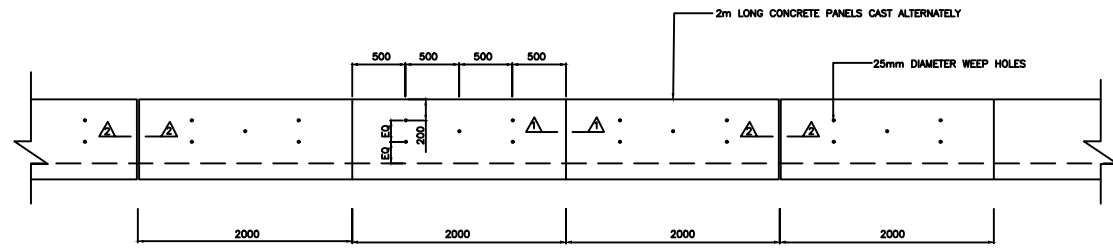
DESCRIPTION OF PROJECT:
MW-MTPW-544351-CW-RFB/SPOT IMPROVEMENT AND INSTALLATION OF DRAINAGE STRUCTURES ON SENZANI-DOVIKO (T394/SI25) ROAD(18KM)S IN NTCHEU DISTRICT-SECTION2(KM24-42)

CONTRACT No.:
PROJECT No.:
SCALE: 1:1000
DATE: NOVEMBER 2025

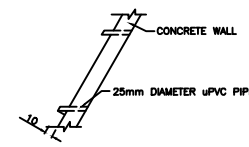
PROJECT STATUS

PLANNING/PROJECT ENGINEER:
INSPECTOR OF WORKS:
REMARKS:
ORIGINAL PAPER SIZE: A1
DRAWING NO.:
SHEET NO.: 1 OF 1

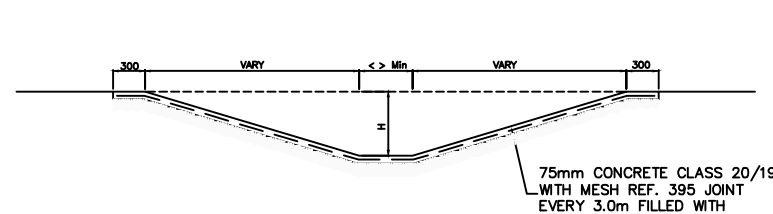
DEPTH H(m)	DEPTH H(m)
H<0.8	1:4
0.8<H<0.9	1:3
0.9<H<1.5	1:2
H>1.5	1:1.5



VEE OR TRAPEZOIDAL LINED DRAIN SIDE WALL ELEVATION
SCALE 1: 300

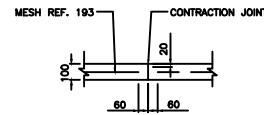


SECTION THROUGH SIDE PANEL

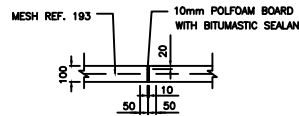


TYPICAL SECTION OF LINED TRAPEZOIDAL DRAIN
SIDE SLOVES VARY 'H' Min 300mm

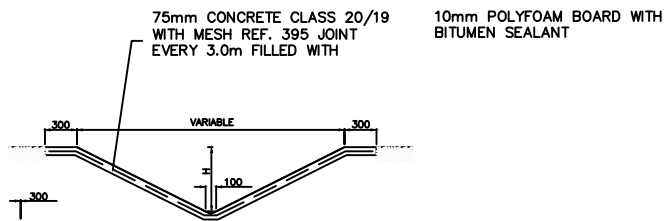
SCALE 1: 300



SECTION 2-2
EXPANSION JOINT SECTION THROUGH SIDE PANEL



SECTION 2-2
EXPANSION JOINT

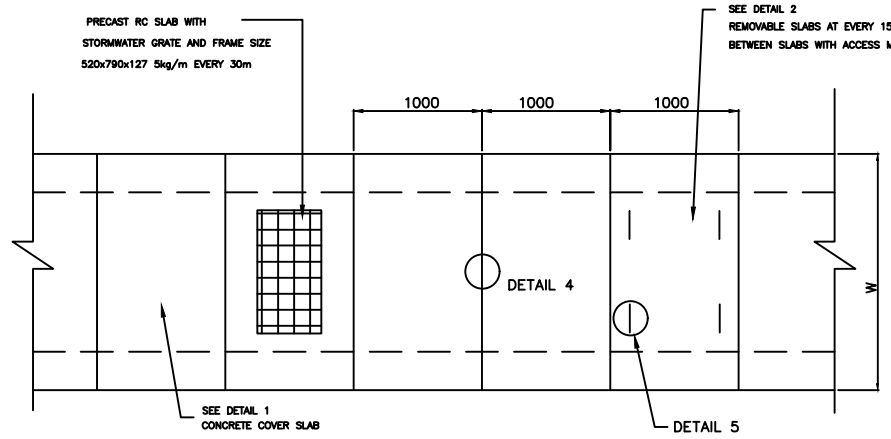


TYPICAL SECTION OF LINED VEE DRAIN
SIDE SLOVES VARY 'H' Min 300mm

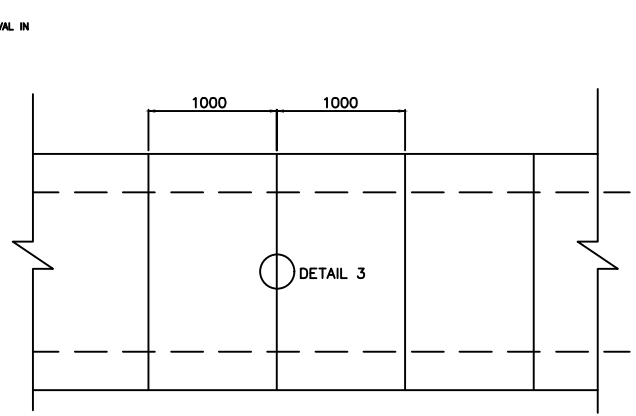
SCALE 1: 300

REFERENCE CODE	WIRE/BAR DIAMETER	MESH APERTURE	SHEET WEIGHT
REF 100	4.00 mm	200 x 200mm	14.4 kgs
REF 156	3.55 mm	100 x 100mm	22.5 kgs
REF 193	5.6 mm	200 x 200mm	27.8 kgs
REF 245	6.3 mm	200 x 200mm	35.3 kgs
REF 311	7.1 mm	200 x 200mm	44.8 kgs
REF 395	8.00 mm	200 x 200mm	56.9 kgs
REF 500	9.00 mm	200 x 200mm	72.0 kgs
REF 617	10.00 mm	200 x 200mm	88.9 kgs
REF 888	12.00 mm	200 x 200mm	127.9 kgs

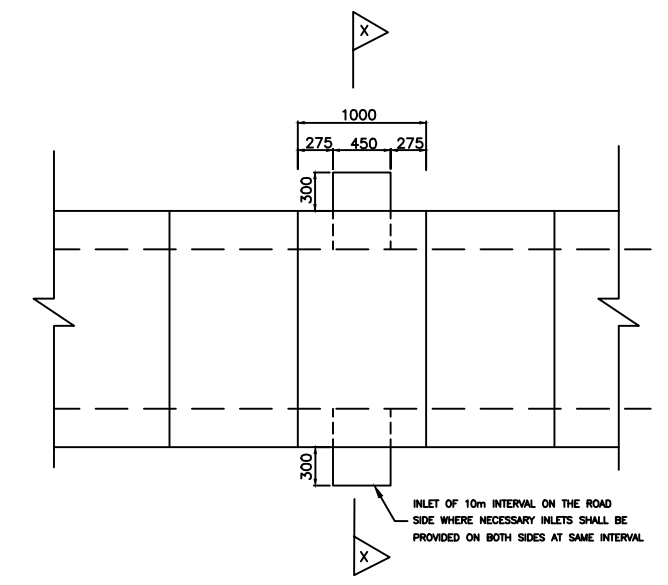
AMENDMENTS			LEGEND		CONSULTANT'S DETAIL:		CLIENT'S DETAIL:		DESIGNED		DRAWING TITLE:		PROJECT STATUS	
NR.	DESCRIPTION	DATE			SUIDA & PARTNERS P.O Box 32345, Chichiri, Blantyre 3 Malawi Tel: + 888 343 523/ 999 343 523 Email info@suidamw.com		Southern Africal Trade Connectivity Project, Ministry of Transport and Public Works Capital Hill, Off Chilembwe Road private Bag 322, Lilongwe		Z. B		STANDARD DRAWINGS: TRAPEZOIDAL AND VEE DRAINS DETAILS AT ROAD CROSSING		<input type="radio"/> DESIGN <input type="radio"/> CHECKED <input type="radio"/> APPROVED FOR CONSTRUCTION <input type="radio"/> AS BUILT	
1	REVISION 1	25-02-206							DESIGN CHECKED BY F. N. RENg DRAWING CHECKED BY F. N. RENg DRAWING APPROVED BY MINISTRY		DESCRIPTION OF PROJECT MW-MTPW-544351-CW-RFB/SPOT IMPROVEMENT AND INSTALLATION OF DRAINAGE STRUCTURES ON SENZANI-DOVIKO (T394/SI25) ROAD(18KM)S IN NTCHU DISTRICT-SECTION2(KM24-42)		PLANNING/PROJECT ENGINEER: INSPECTOR OF WORKS: REMARKS: ORIGINAL PAPER SIZE: A1	
									DRAWING NO.: CONTRACT No.: PROJECT No.: SCALE: 1:1000 DATE: NOVEMBER 2025		CON/2025/SP/SATCP-LM/DRN-06 SHEET NO: 1 OF 1		<input type="checkbox"/>	



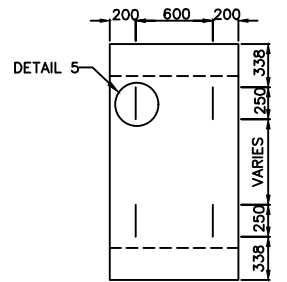
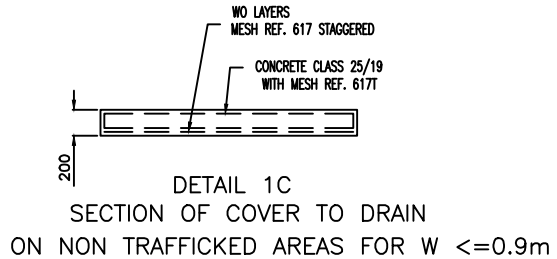
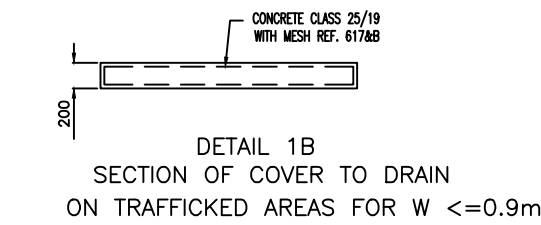
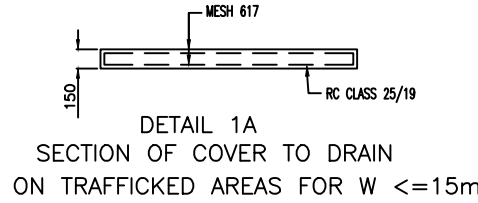
PLAN OF RECTANGULAR DRAIN COVERED WITH PRECAST SLABS



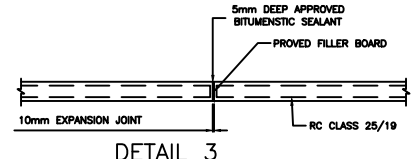
RECTANGULAR DRAIN INVERT SLAB OR CAST IN-SITU CONCRETE



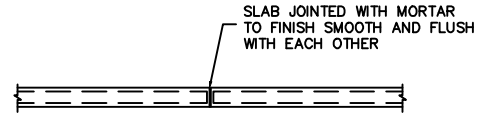
RECTANGULAR ROAD SIDE DRAIN PLAN



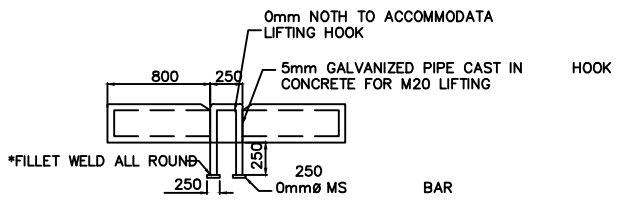
DETAIL 2 REMOVABLE PRECAST SLAB



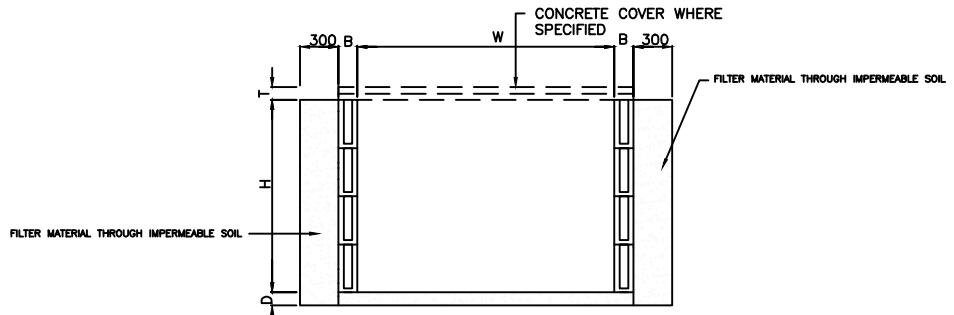
DETAIL 3 EXPANSION JOINT DETAIL ON WALLS AND BASE SLAB OF DRAIN AT 30m INTERVAL



DETAIL 4 JOINT IN COVER SLAB TO DRAIN

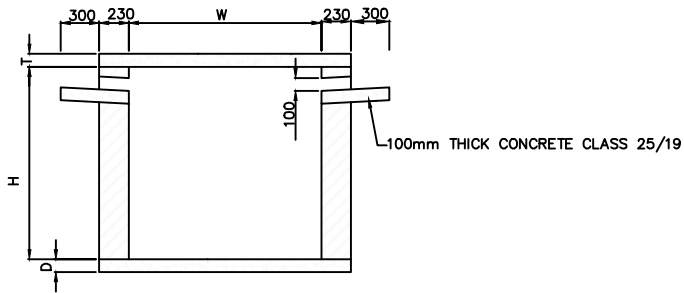


DETAIL 5 LIFTING HOOK FOR REMOVABLE SLABS



HOLLOW BLOCK RECTANGULAR DRAIN(OUTFALL)

W	Varies (as specified)
B	150 mm for H less than 0.6m Y= Hollow block min 5.0MPa filled with concrete class 20/19 and reinforced with Y12 bars vertically in each hole 230mm for H greater than 0.6m less than 1.5m Y= Hollow block min 5MPa with Y12mm per hole and filled with concrete class 20/19 150 mm for H greater than 1.5m and less than 1.8 Y= class 25/19 reinforced with mesh REF. 617 each face 150 mm for H greater than 1.8m and less than 2.5m Y= class 25/19 reinforced with double layer mesh REF. 617 each face for one thirds of height and single layer for rest of height
D	100mm concrete class 25/19 reinforced with mesh Ref. 395 top face
T	Varies (as specified)



SECTION X-X ROAD SIDE DRAIN

AMENDMENTS		
NR.	DESCRIPTION	DATE
1	REVISION 1	25-02-206


LEGEND	

CONSULTANT'S DETAIL:



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Email info@suidamw.com

CLIENT'S DETAIL:



Southern African Trade Connectivity Project,
Ministry of Transport and Public Works
Capital Hill, Off Chilembwe Road
private Bag 322, Lilongwe

DESIGNED
Z. B

DESIGN CHECKED BY
F. N. RENg

DRAWN
Z. B

DRAWING CHECKED BY
F. N. RENg

DRAWING APPROVED BY MINISTRY

DRAWING TITLE:
STANDARD DRAWINGS: COVERED RECTANGULAR DRAIN DETAILS

DESCRIPTION OF PROJECT:
MW-MTPW-544351-CW-RFB/SPOT IMPROVEMENT AND INSTALLATION OF DRAINAGE STRUCTURES ON SENZANI-DOVIKO (T394/SI25) ROAD(18KM)S IN NTCHEU DISTRICT-SECTION2(KM24-42)

CONTRACT No.: *****

PROJECT No.: *****

SCALE: 1:1000

DATE: NOVEMBER 2025

PROJECT STATUS

PLANNING/PROJECT ENGINEER: _____

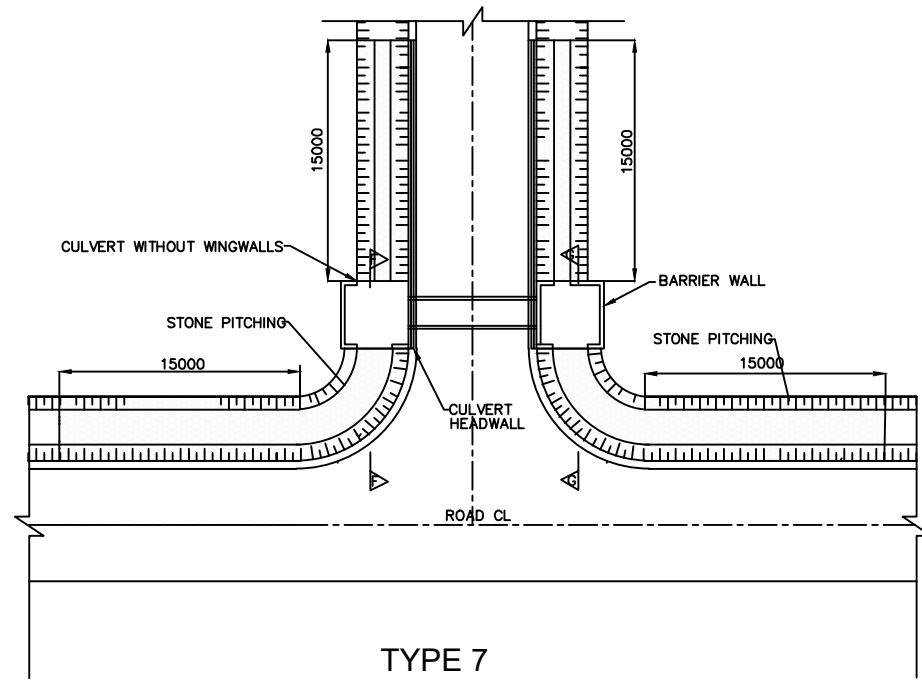
INSPECTOR OF WORKS: _____

REMARKS: _____

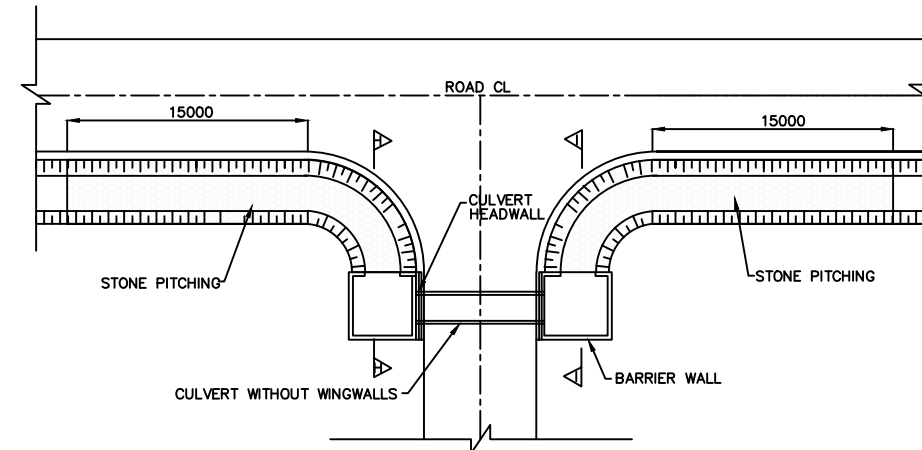
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DRAWING NO: CON/2025/SP/SATCP-LM/DRN-07

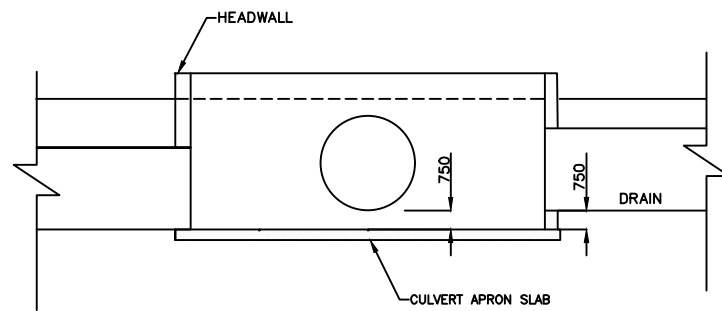
SHEET NO: 1 OF 1



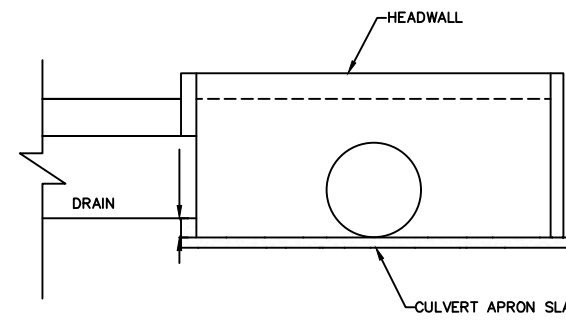
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SCALE 1 : 200



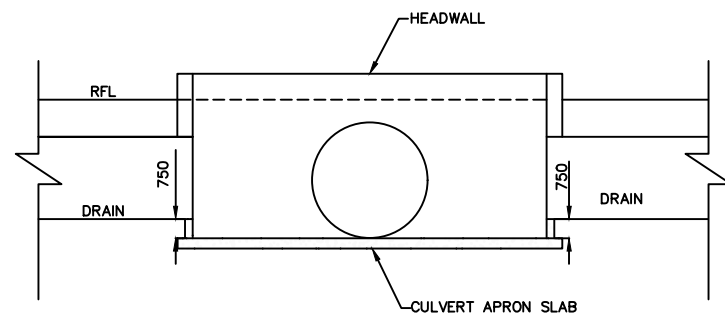
TYPE 8



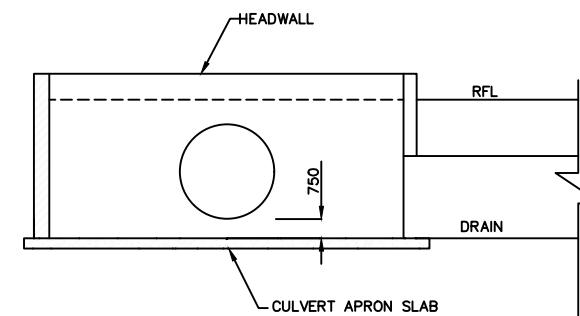
SECTION G-G
SCALE 1 : 250



SCALE 1 : 250

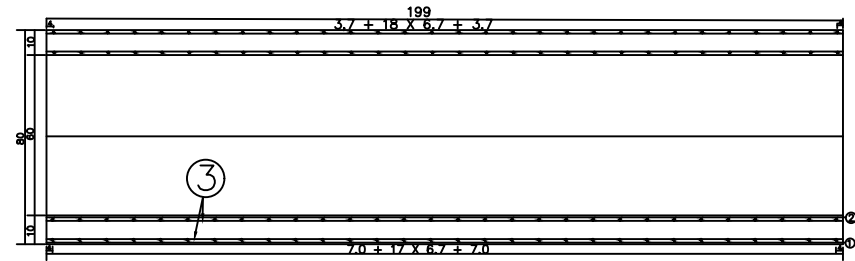


SECTION F-F

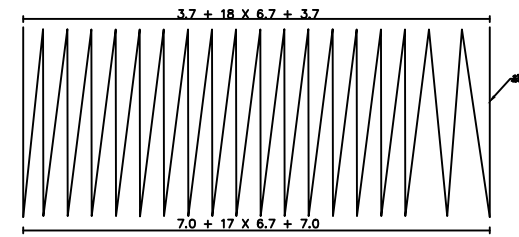


SECTION I-I

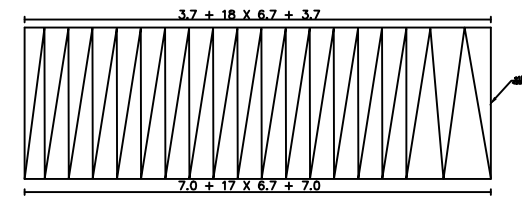
AMENDMENTS			LEGEND		CONSULTANT'S DETAIL:		CLIENT'S DETAIL:		DESIGNED		DRAWING TITLE:		PROJECT STATUS	
NR.	DESCRIPTION	DATE			SUIDA & PARTNERS P.O Box 32345, Chichiri, Blantyre 3 Malawi Tel: + 888 343 523/ 999 343 523 Email info@suidamw.com		Southern Africa Trade Connectivity Project, Ministry of Transport and Public Works Capital Hill, Off Chilembwe Road private Bag 322, Lilongwe		Z. B		STANDARD DRAWINGS: DRAIN INLET AND OUTLET DETAILS		PLANNING/PROJECT ENGINEER:	ORIGINAL PAPER SIZE: A1
1	REVISION 1	25-02-206							DESIGN CHECKED BY F. N. RENg	DATE	DESCRIPTION OF PROJECT MW-MTPW-544351-CW-RFB/SPOT IMPROVEMENT AND INSTALLATION OF DRAINAGE STRUCTURES ON SENZANI-DOVIKO (T394/S125) ROAD(18KM5) IN NTCHEU DISTRICT-SECTION2(KM24-42)		INSPECTOR OF WORKS:	DATE
									DRAWN Z. B	DATE			REMARKS:	DATE
									DRAWING CHECKED BY F. N. RENg	DATE			DRAWING NO.	SHEET NO.
									DRAWING APPROVED BY MINISTRY	DATE	CONTRACT No.:	PROJECT No.:	SCALE:	DATE:
													NOVEMBER 2025	CON/2025/SP/SATCP-LM/DRN-08
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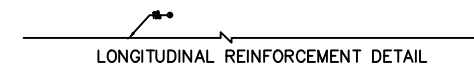
PROFILE



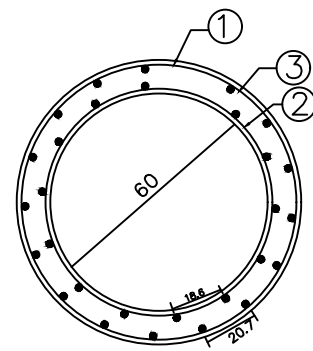
OUTER RING RIBS PROFILE



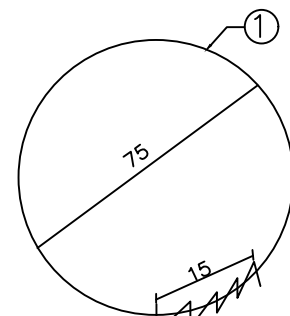
INNER RING RIBS PROFILE



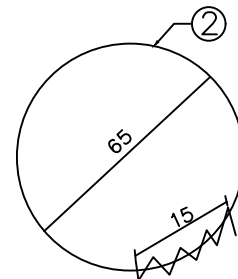
LONGITUDINAL REINFORCEMENT DETAIL



CROSS-SECTION



OUTER RING RIBS DETAILS



INNER RING RIBS DETAILS

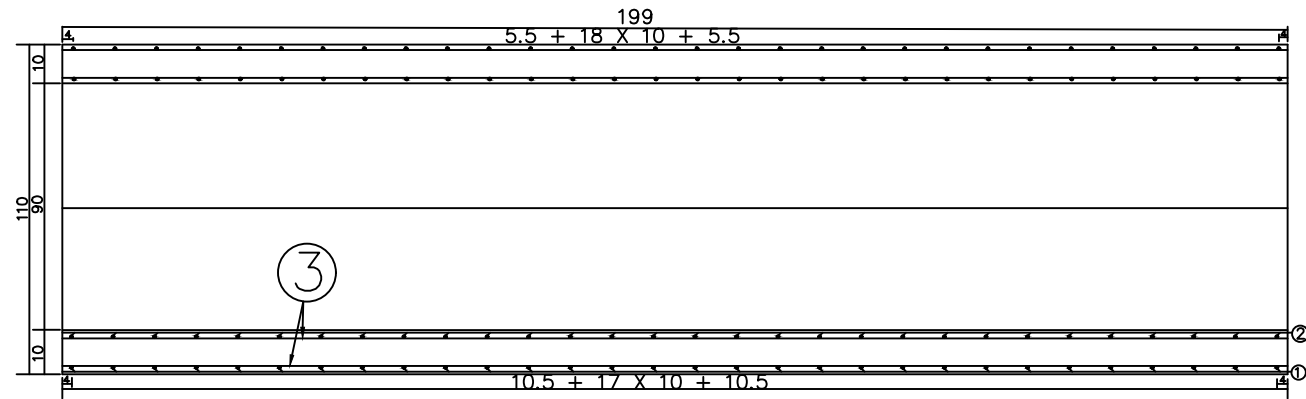
ENGINEERING QUANTITIES LIST

NUMBER	DIAMETER	EACH LENGTH	THE NUMBER	TOTAL	WEIGHT PER METER	WEIGHT	SERIAL NUMBER
Unit	mm	cm	Radius	m	kg/m	kg	
1	10	1000	1	1000	0.008	8.00	001
2	10	1000	1	1000	0.008	8.00	002
3	10	1000	1	1000	0.008	8.00	003

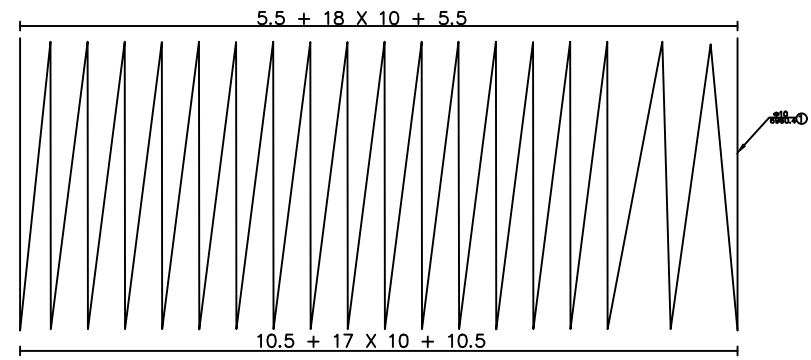
SUMMATION C20 concrete: 0.4m³ HPB235: 67.7KG

NOTES:
1. Figures in addition to the steel bar diameter in millimeters in size and indicated, the rest are in centimeters

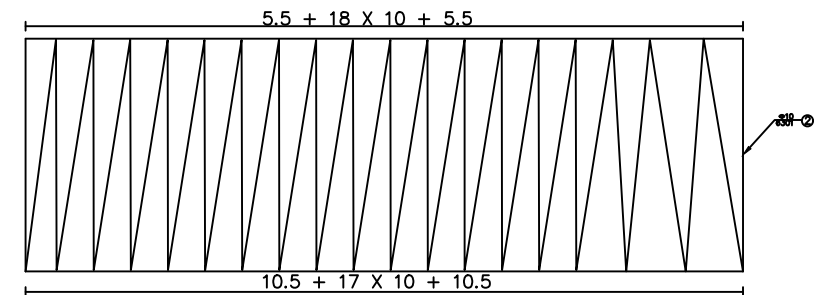
AMENDMENTS			LEGEND		CONSULTANT'S DETAIL:		CLIENT'S DETAIL:		DESIGNED				DRAWING TITLE:				PROJECT STATUS			
NR.	DESCRIPTION	DATE			SUIDA & PARTNERS P.O Box 32345, Chichiri, Blantyre 3 Malawi Tel: + 888 343 523/ 999 343 523 Email info@suidamw.com		Southern Africal Trade Connectivity Project, Ministry of Transport and Public Works Capital Hill, Off Chilembwe Road private Bag 322, Lilongwe		Z. B				STANDARD DRAWINGS: 900MM DIAMETER CONCRETE DETAILS				<input type="checkbox"/> CONSULTANT DRAWING <input type="checkbox"/> DESIGNER DRAWING <input type="checkbox"/> APPROVED FOR CONSTRUCTION DRAWING <input type="checkbox"/> AS-BUILT DRAWING PLANNING/PROJECT ENGINEER: _____ INSPECTOR OF WORKS: _____ REMARKS: _____ ORIGINAL PAPER SIZE: A1			
1	REVISION 1	25-02-206							DESIGN CHECKED BY F. N. REng				DESCRIPTION OF PROJECT MW-MTPW-544351-CW-RFB/SPOT IMPROVEMENT AND INSTALLATION OF DRAINAGE STRUCTURES ON SENZANI-DOVIKO (T394/SI25) ROAD(18KM5) IN NTCHU DISTRICT-SECTION2(KM24-42)				DRAWING NO: _____ CONTRACT No.: _____ PROJECT No.: _____ SCALE: 1:1000 DATE: NOVEMBER 2025 CON/2025/SP/SATCP-LM/DRN-09 SHEET NO: 1 OF 1			



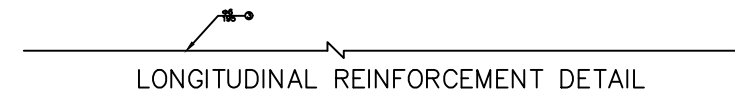
PROFILE



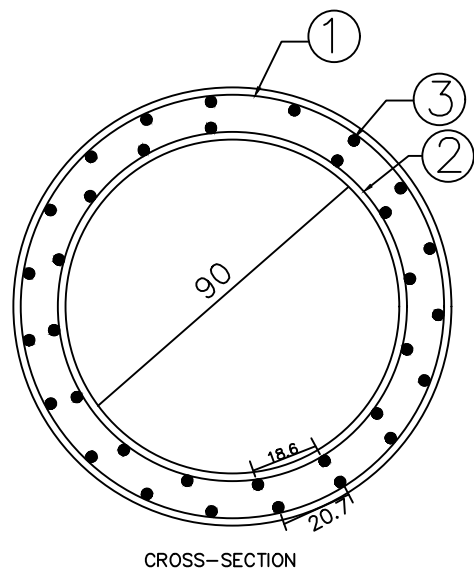
OUTER RING RIBS PROFILE



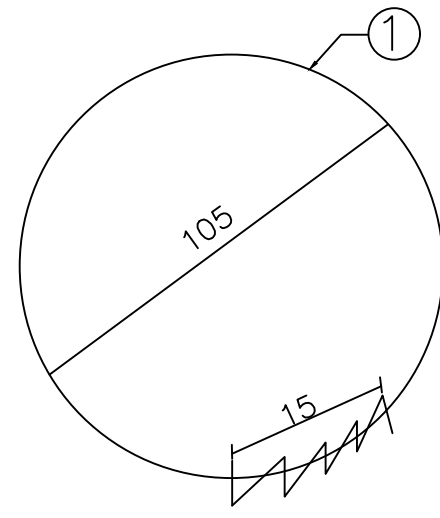
INNER RING RIBS PROFILE



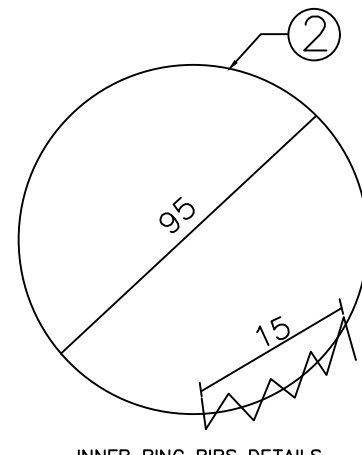
LONGITUDINAL REINFORCEMENT DETAIL



CROSS-SECTION



OUTER RING RIBS DETAILS



INNER RING RIBS DETAILS

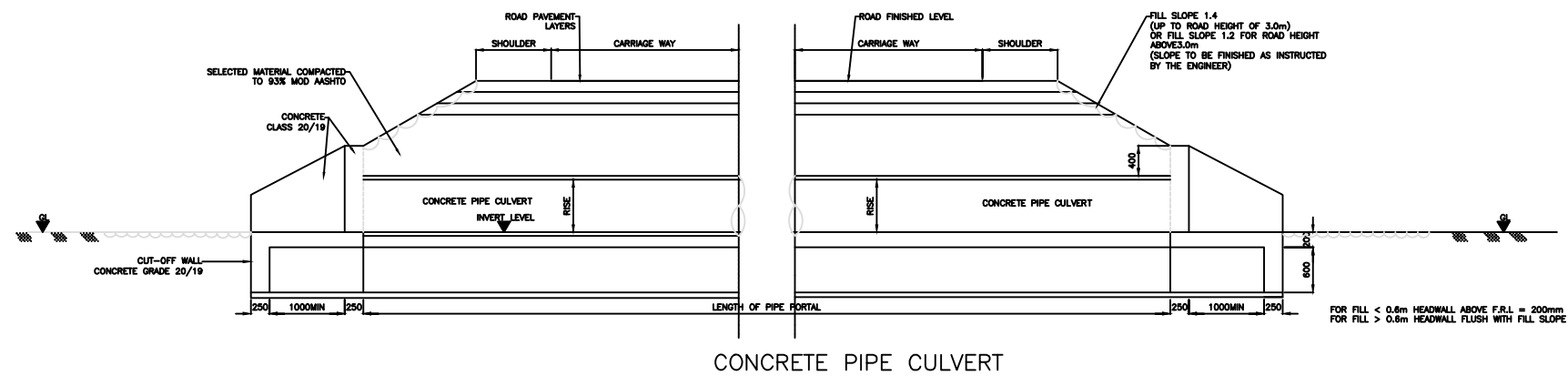
ENGINEERING QUANTITIES LIST

NUMBER	DIAMETER	EACH LENGTH	THE NUMBER	TOTAL	WEIGHT PER METER	WEIGHT	SERIAL NUMBER
Unit	mm	cm	Radical	m	kg/m	kg	
1	ø10	6003.30	1	60.0	0.62	42.98	HPB 235
2	ø10	6300.80	1	63.0	0.62	38.88	HPB 235
3	ø6	195	32	62.4	0.22	13.85	HPB 235
SUMMATION C20 concrete: 0.6m3 HPB235: 95.7KG							

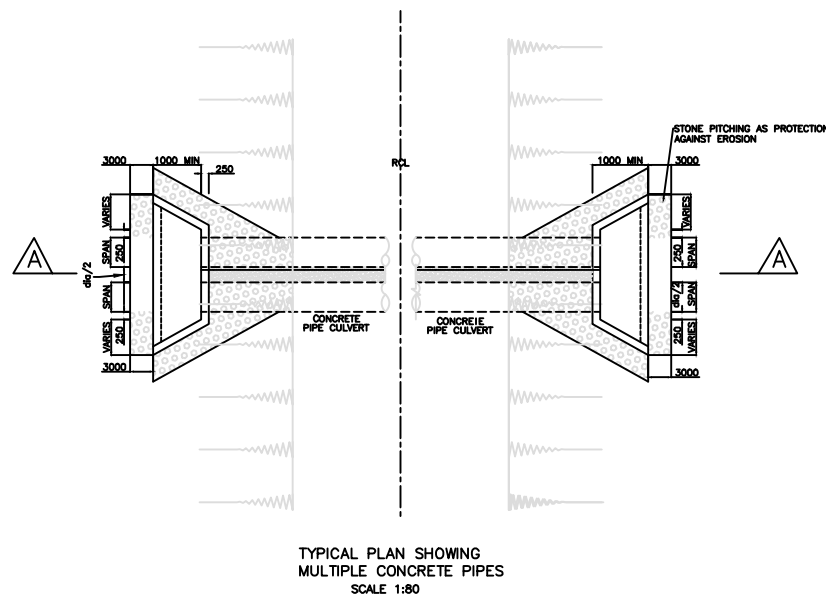
NOTES:

1. Figures in addition to the steel bar diameter in millimeters in size and indicated, the rest are in centimeters

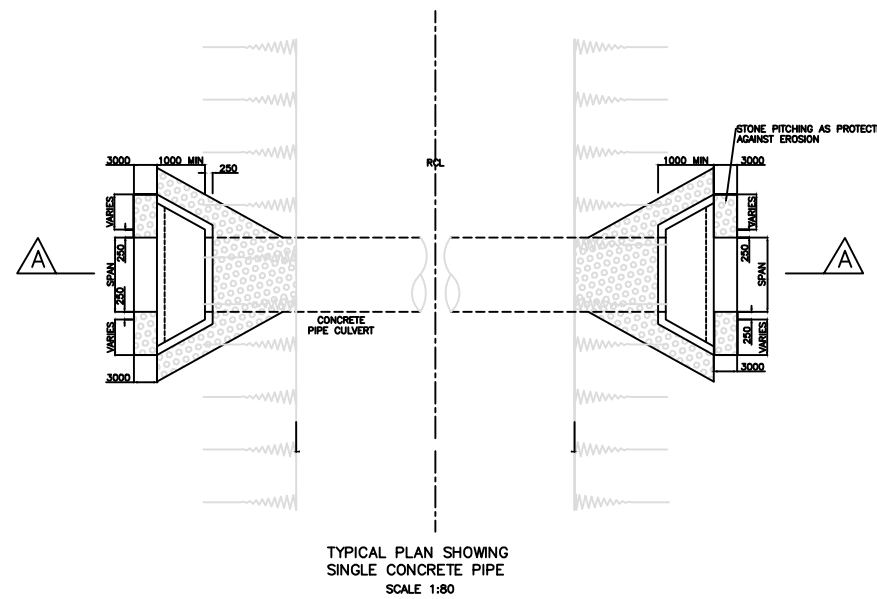
AMENDMENTS			LEGEND		CONSULTANT'S DETAIL:		CLIENT'S DETAIL:		DESIGNED		DRAWING TITLE:		PROJECT STATUS	
NR.	DESCRIPTION	DATE			SUIDA & PARTNERS P.O Box 32345, Chichiri, Blantyre 3 Malawi Tel: + 888 343 523/ 999 343 523 Email info@suidamw.com		Southern Africa Trade Connectivity Project, Ministry of Transport and Public Works Capital Hill, Off Chilembwe Road private Bag 322, Lilongwe		Z. B		STANDARD DRAWINGS: 900MM DIAMETER CONCRETE DETAILS		<input type="radio"/> DESIGN <input type="radio"/> CHECKING <input type="radio"/> CONSTRUCTION <input type="radio"/> AS-BUILT	
1	REVISION 1	25-02-2026							DESIGN CHECKED BY F. N. RENg		DESCRIPTION OF PROJECT MW-MTPW-544351-CW-RFB/SPOT IMPROVEMENT AND INSTALLATION OF DRAINAGE STRUCTURES ON SENZANI-DOVIKO (T394/SI25) ROAD(18KM5) IN NTCHEU DISTRICT-SECTION2(KM24-42)		PLANNING/PROJECT ENGINEER: INSPECTOR OF WORKS: REMARKS: ORIGINAL PAPER SIZE: A1	
									DRAWN Z. B		SCALE: 1:1000		DATE: NOVEMBER 2025	
									DRAWING CHECKED BY F. N. RENg		CONTRACT No.:		PROJECT No.:	
									DRAWING APPROVED BY MINISTRY		DATE:		DRAWING NO. CON/2025/SP/SATCP-LM/DRN-10	
									SIGNATURE		SCALE: 1:1000		SHEET NO. 1 OF 1	



TYPICAL SECTION A-A
SCALE 1:30

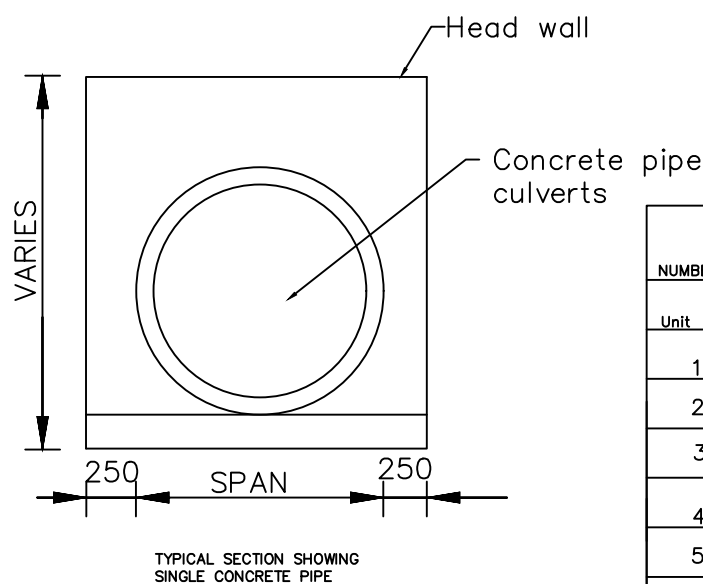
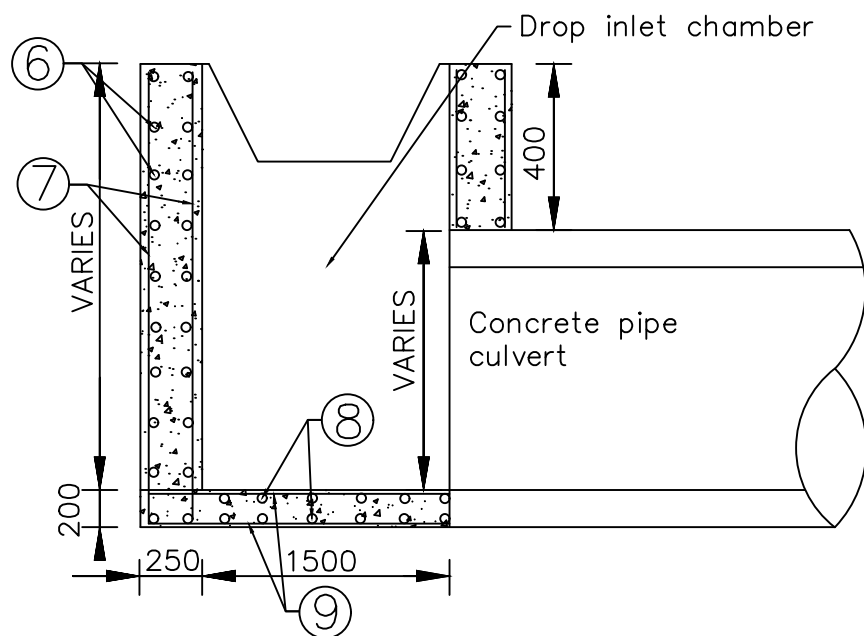
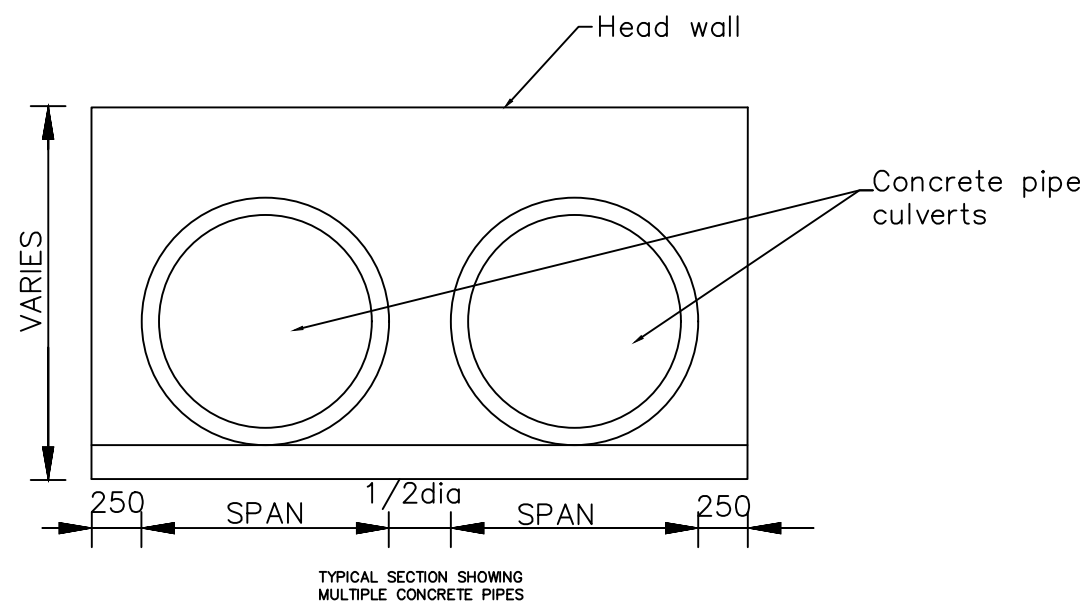
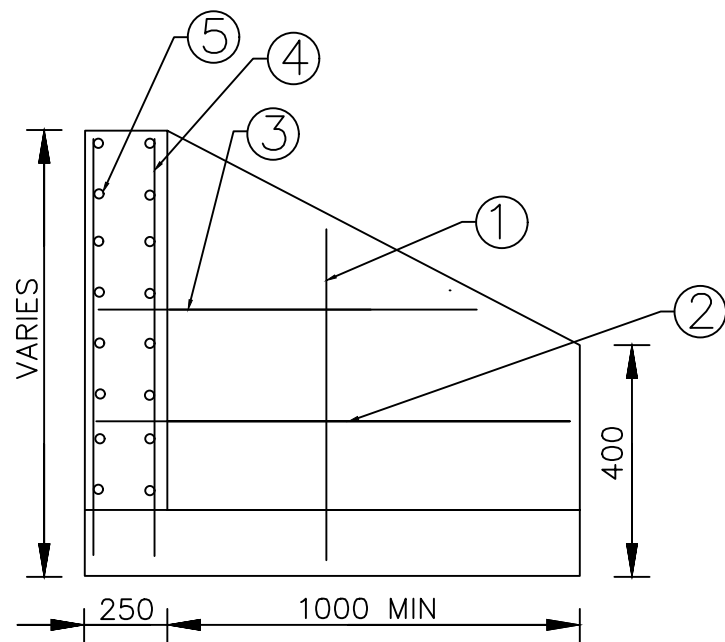


TYPICAL PLAN SHOWING
MULTIPLE CONCRETE PIPES
SCALE 1:80



TYPICAL PLAN SHOWING
SINGLE CONCRETE PIPE
SCALE 1:80

AMENDMENTS			LEGEND		CONSULTANT'S DETAIL:		CLIENT'S DETAIL:		DESIGNED		DRAWING TITLE:		PROJECT STATUS	
NR.	DESCRIPTION	DATE			SUIDA & PARTNERS		Southern Africa Trade Connectivity Project,		Z. B		STANDARD DRAWINGS: GENERAL ARRANGEMENT OF REINFORCED CONCRETE RING		<input type="radio"/> CONSULTANT DRAWING <input type="radio"/> DESIGNER DRAWING <input type="radio"/> PROJECT ENGINEER DRAWING <input type="radio"/> AS BUILT DRAWING	
1	REVISION 1	25-02-206			 P.O Box 32345, Chichiri, Blantyre 3 Malawi Tel: + 888 343 523/ 999 343 523 Email info@suidamw.com		 Ministry of Transport and Public Works Capital Hill, Off Chilembwe Road private Bag 322, Lilongwe		DESIGN CHECKED BY F. N. RENg DATE: _____ DRAWN Z. B DATE: _____ DRAWING CHECKED BY F. N. RENg DATE: _____ DRAWING APPROVED BY MINISTRY DATE: _____		DESCRIPTION OF PROJECT MW-MTPW-544351-CW-RFB/SPOT IMPROVEMENT AND INSTALLATION OF DRAINAGE STRUCTURES ON SENZANI-DOVIKO (T394/Si25) ROAD(18KM5) IN NTCHEU DISTRICT-SECTION2(KM24-42)		PLANNING/PROJECT ENGINEER: _____ INSPECTOR OF WORKS: _____ REMARKS: _____ ORIGINAL PAPER SIZE: A1 SHEET NO: 1 OF 1	
									CONTRACT No.: _____ PROJECT No.: _____ SCALE: 1:1000 DATE: NOVEMBER 2025		DRAWING NO: CON/2025/SP/SATCP-LM/DRN-11			



REINFORCEMENT DETAILS
(TO BE CUT AND BENT ON SITE)

NUMBER	DIAMETER	SPACING	WEIGHT PER METER	SERIAL NUMBER
Unit	mm	mm	kg/m	
1	φ12	150	0.89	HPB 235
2	φ10	150	0.62	HPB 235
3	φ10	150	0.62	HPB 235
4	φ12	150	0.89	HPB 235
5	φ10	150	0.62	HPB 235
6	φ10	225	0.62	HPB 235
7	φ10	225	0.62	HPB 235
8	φ10	225	0.62	HPB 235
9	φ10	225	0.62	HPB 235

Concrete class: C20/19

AMENDMENTS			LEGEND			CONSULTANT'S DETAIL:			CLIENT'S DETAIL:			DESIGNED:			DRAWING TITLE:			PROJECT STATUS											
NR.	DESCRIPTION	DATE				SUIDA & PARTNERS P.O Box 32345, Chichiri, Blantyre 3 Malawi Tel: + 888 343 523/ 999 343 523 Email info@suidamw.com			Southern Africa Trade Connectivity Project, Ministry of Transport and Public Works Capital Hill, Off Chilembwe Road private Bag 322, Lilongwe			Z. B			STANDARD DRAWINGS: REINFORCED CONCRETE RING AND DROP INLET CHAMBER DETAILS DESCRIPTION OF PROJECT MW-MTPW-544351-CW-RFB/SPOT IMPROVEMENT AND INSTALLATION OF DRAINAGE STRUCTURES ON SENZANI-DOVIKO (T394/Si25) ROAD(18KM5) IN NTCHU DISTRICT-SECTION2(KM24-42)			<input type="radio"/> DESIGN <input type="radio"/> CHECKING <input type="radio"/> APPROVAL <input type="radio"/> AS-BUILT											
1	REVISION 1	25-02-206										DESIGN CHECKED BY						F. N. RENg			PLANNING/PROJECT ENGINEER:								
												DRAWN						Z. B			INSPECTOR OF WORKS:								
												DRAWING CHECKED BY						F. N. RENg			REMARKS:								
												DRAWING APPROVED BY									ORIGINAL PAPER SIZE: A1								
												CONTRACT No.:			PROJECT No.:			SCALE: 1:1000			DATE: NOVEMBER 2025			DRAWING NO. CON/2025/SP/SATCP-LM/DRN-12			SHEET NO. 1 OF 1		

ROAD INVENTORY

DISTRICT - NTCHEU

DATA COLLECTED ON: 29/SEPT/2025

UPDATED ON:

SENZANI - DOVIKO ROAD (T394/S125) ROAD

Chainage		DESCRIPTION
FROM	TO	
24+000		START
24+470		Existing Concrete Pipe Culvert - (600mm Dia 1 Line)
25+970		Existing Box Culvert - 1.4m x 1m - 1 Cell
26+220		Existing Concrete Pipe Culvert - (600mm Dia 1 Line)
26+520		Existing Concrete Pipe Culvert - (600mm Dia 1 Line)
26+544		Existing Box Culvert - 1.4m x 1m - 1 Cell
26+680		Existing Box Culvert - 1m x 1m - 2 Cells
27+260		Existing Box Culvert - 1m x 1m - 1 Cell
29+200	29+500	Gravelling, Earth drains and Scour Checks
29+300		Provide Service Ducts - min. 300mm Dia
29+500	30+000	Reshape Section, Earth drains and Scour Checks
29+705		Existing Box Culvert - 1.4m x 1m - 1 Cell
29+900		Existing Concrete Pipe Culvert - (600mm Dia 1 Line)
30+020		Provide mitre drains - LHS & RHS
30+180	30+200	provide Earthdrains and Scour checks
30+450	30+820	provide Earthdrains, Scour checks, fill eroded sections and provide crossover slabs for pedestrians
30+880		Existing Box Culvert - 1m x 1m - 1 Cell
31+200		Existing Box Culvert - 1m x 1m - 1 Cell
31+400		Existing Box Culvert - 1m x 1m - 1 Cell
31+400	31+720	Gravelling and lined drains - LHS &RHS required
31+720		Existing Box Culvert - 1m x 1m - 1 Cell - Provide 1 No. Head wall, Culvert cleaning and Excavation of outlet drain
31+720	32+300	Reshape Section, Gravel, Provide earth drains and Scour checks - LHS & RHS
32+300	32+500	Do nothing
32+500	32+600	Do nothing
32+900	33+300	Do nothing
33+300	33+500	Do nothing
33+400		Provide mitre drain - RHS
33+450		Provide mitre drain - LHS
33+500	33+800	Reshape Section, Gravel, Provide earth drains, Scour checks - LHS & RHS and fill eroded sections
33+800	34+200	Do nothing
34+200	34+800	Do nothing
34+310		Existing Box Culvert - 1m x 1m - 1 Cell
34+700		Existing Box Culvert - 1m x 1m - 1 Cell
34+800		Provide mitre drain - LHS
34+800	35+500	Reshape Section, Provide earth drains and Scour checks - LHS & RHS
35+320		Existing Box Culvert - 1m x 1m - 1 Cell - Erosion protection works - outlet structure
35+500	36+000	Do nothing
35+785		Existing Box Culvert - 1m x 1m - 1 Cell
36+000	36+250	Gravelling, Earth drains and Scour Checks
36+250	36+700	Do nothing
36+700	37+230	Do nothing
37+230	37+900	Do nothing
37+900	38+100	Do nothing
38+100	39+360	Do nothing
39+240		Existing Box Culvert - 1m x 1m - 1 Cell
39+360	40+000	Gravelling, Earth drains and Scour Checks
40+000	40+400	Gravelling, Earth drains and Scour Checks
40+400	41+000	Do nothing
40+500		Existing Box Culvert - 1m x 1m - 1 Cell
40+800		Existing Box Culvert - 1m x 1m - 1 Cell
41+000	41+200	Do nothing
41+200	41+380	Do nothing
41+310		Existing Box Culvert - 1m x 1m - 1 Cell
41+380	41+500	Do nothing
41+500	41+800	Do nothing
41+600		Do nothing
42+000		DOVIKO

LIST OF STRUCTURES		
DISTRICT - NTCHEU		
DATA COLLECTED ON: 29/SEPT/2025		
UPDATED ON:		
	SENZANI - DOVIKO ROAD (T394/S125) ROAD	
Chainage	DESCRIPTION	ACTION
24+470	Existing Concrete Pipe Culvert - (600mm Dia 1 Line) -	1No. Head wall required and culvert cleaning
25+970	Existing Box Culvert - 1.4m x 1m - 1 Cell	
26+220	Existing Concrete Pipe Culvert - (600mm Dia 1 Line) -	Provide erosion protection works - outlet structure
26+520	Existing Concrete Pipe Culvert - (600mm Dia 1 Line) -	1No. Head wall required
26+544	Existing Box Culvert - 1.4m x 1m - 1 Cell	
26+680	Existing Box Culvert - 1m x 1m - 2 Cells	
27+260	Existing Box Culvert - 1m x 1m - 1 Cell -	requires cleaning
29+705	Existing Box Culvert - 1.4m x 1m - 1 Cells -	requires 1No. Head wall
29+900	Existing Concrete Pipe Culvert - (600mm Dia 1 Line) -	Remove and Replace with a box culvert - 1m x 1m
30+880	Existing Box Culvert - 1m x 1m - 1 Cell	
31+200	Existing Box Culvert - 1m x 1m - 1 Cell	
31+400	Existing Box Culvert - 1m x 1m - 1 Cell -	Provide 1 No. Head wall and Culvert cleaning
31+720	Existing Box Culvert - 1m x 1m - 1 Cell -	Provide 1 No. Head wall, Culvert cleaning and Excavation of outlet drain
34+310	Existing Box Culvert - 1m x 1m - 1 Cell	
34+700	Existing Box Culvert - 1m x 1m - 1 Cell	
35+320	Existing Box Culvert - 1m x 1m - 1 Cell -	Erosion protection works - outlet structure
35+785	Existing Box Culvert - 1m x 1m - 1 Cell -	requires cleaning
39+240	Existing Box Culvert - 1m x 1m - 1 Cell -	requires cleaning
40+500	Existing Box Culvert - 1m x 1m - 1 Cell -	requires cleaning
40+800	Existing Box Culvert - 1m x 1m - 1 Cell -	requires cleaning
41+310	Existing Box Culvert - 1m x 1m - 1 Cell -	requires cleaning
41+600	Existing Box Culvert - 1m x 1m - 1 Cell	
42+000	DOVIKO	