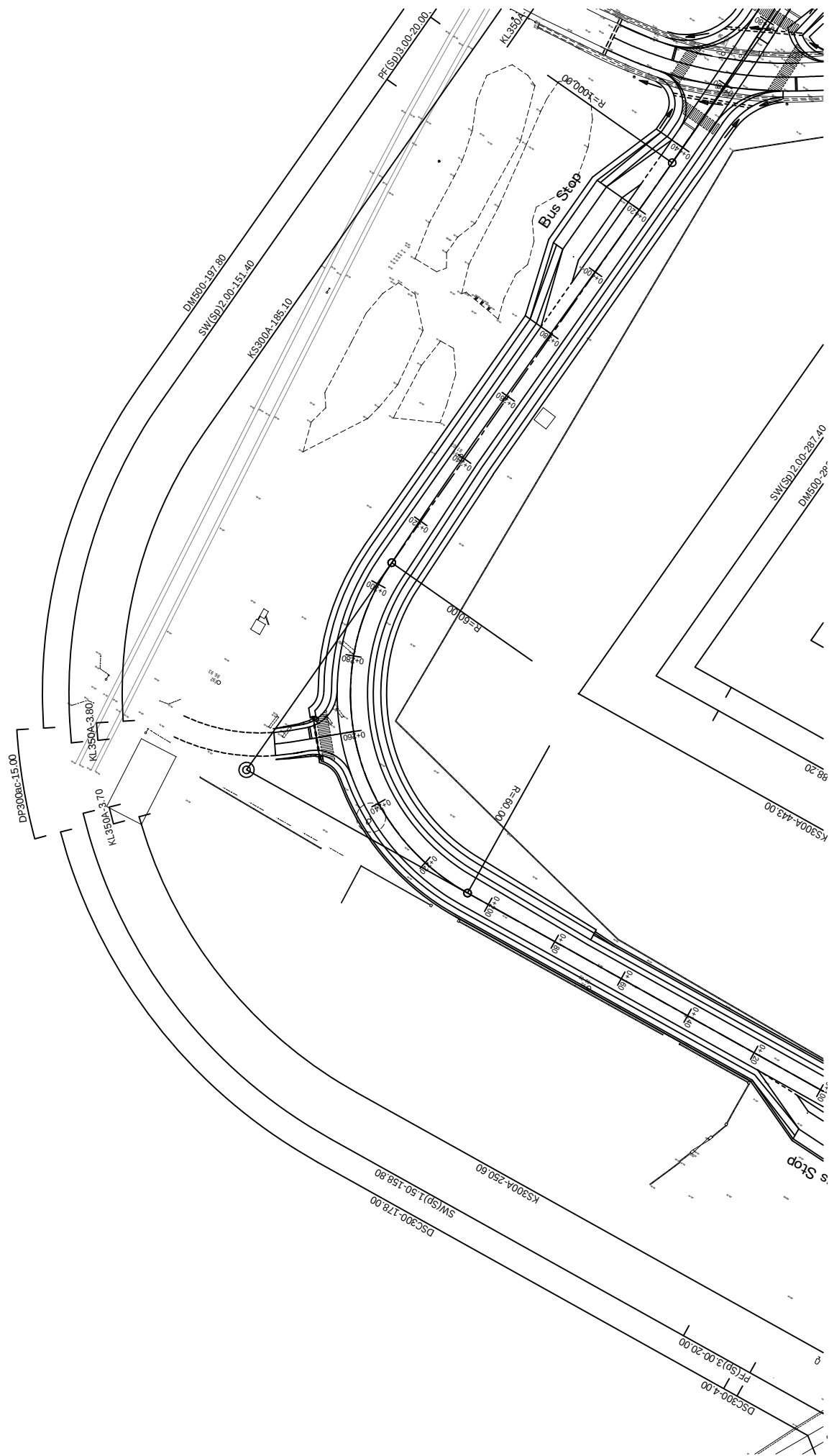
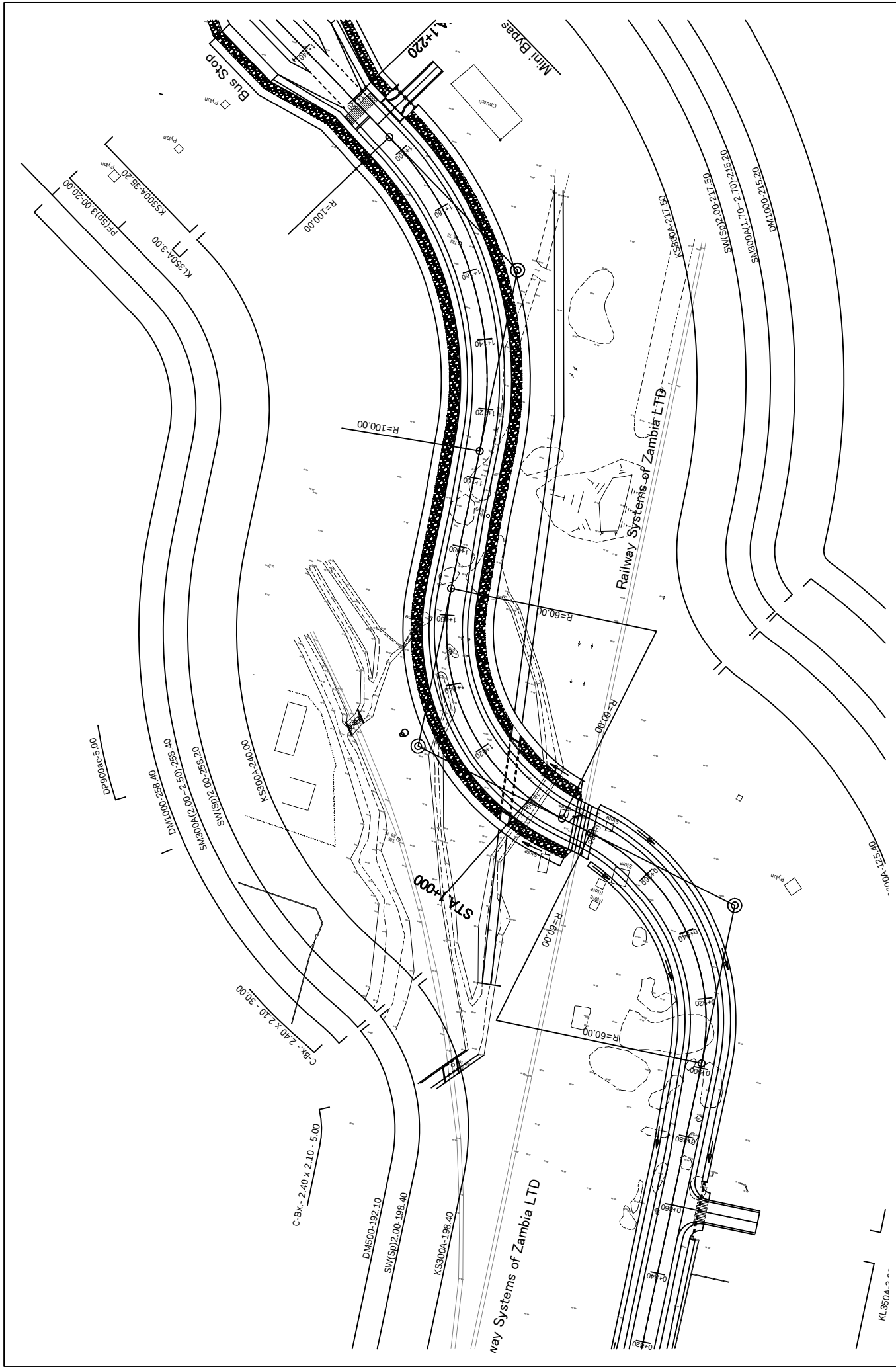
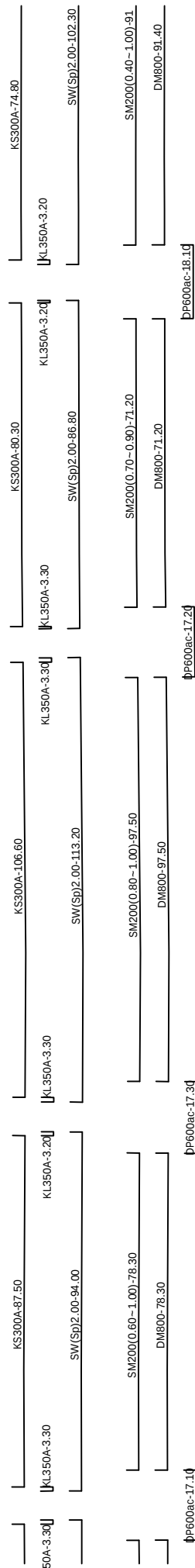
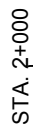
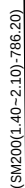




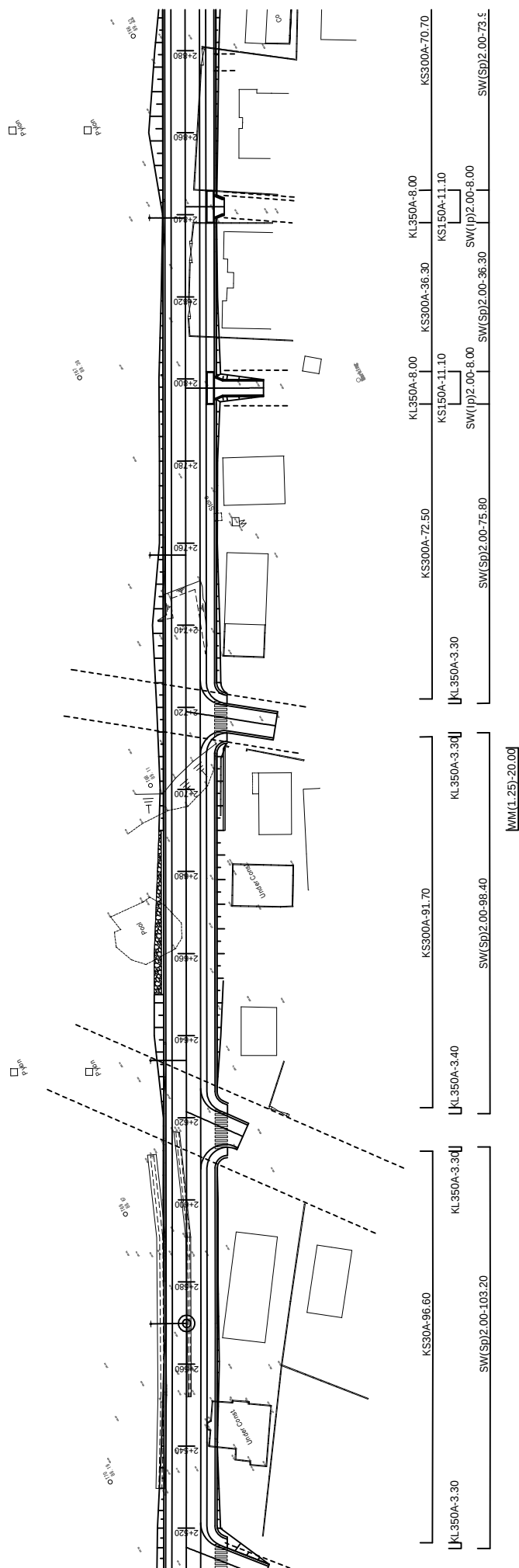
MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: MINI BYPASS LINK ~ INNER RING RD ~ KASAMA RD ~ MOSI-OA-TUNYA JCT. ~ L-SWFEZ (STA. 0+180 ~ STA. 0+360)	Drawing No. SCALE DATE	PL-102
					1/1000
					Jan. 2011



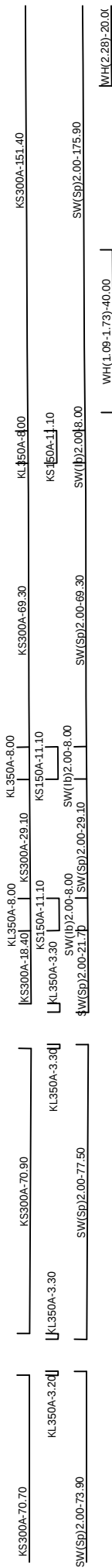
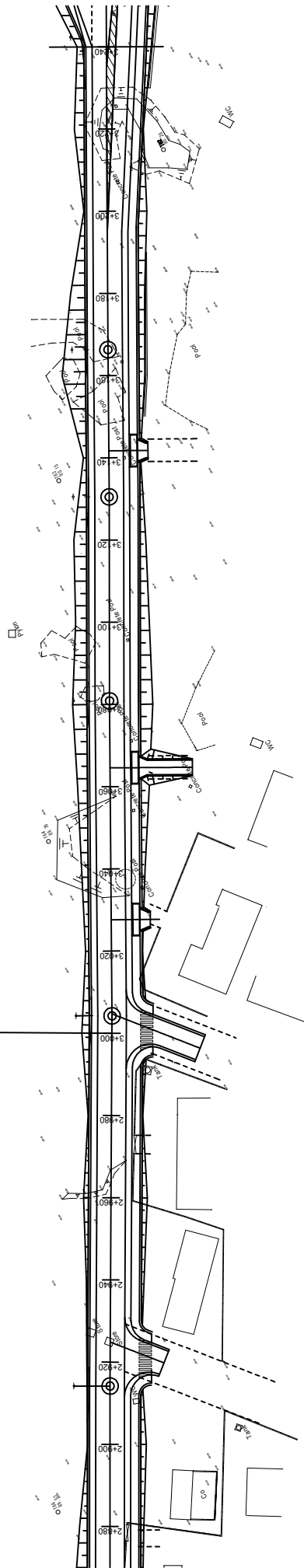
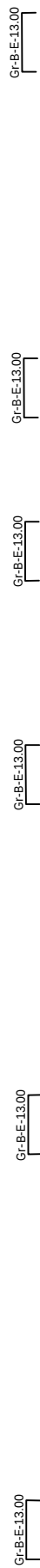
MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: PLAN MINI BYPASS LINK ~ INNER RING RD ~ KASAMA RD ~ MOSI-OA-TUNYA JCT. ~ L-S-MFEZ (STA. 1+000 ~ STA. 1+160)	Drawing No.	PL-105
				SCALE	1/1000
				DATE	Jan. 2011



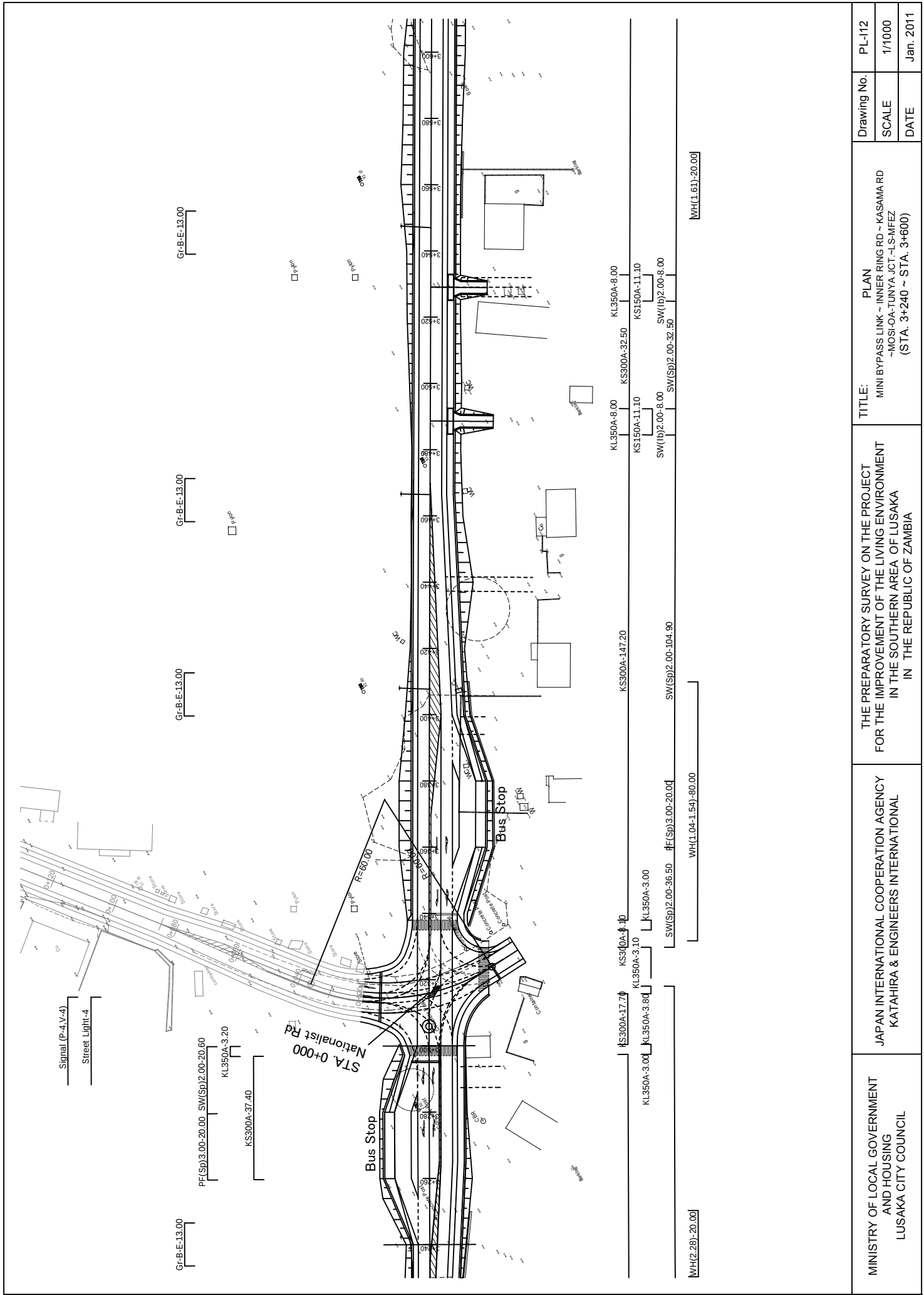
MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: PLAN MINI BYPASS LINK ~ INNER RING RD ~ KASAMA RD ~ MOSI-OA-TUNYA JCT ~ LS-MFEZ (STA. 1+800 ~ STA. 2+160)	Drawing No. SCALE DATE	PL-108 1/1000 Jan. 2011
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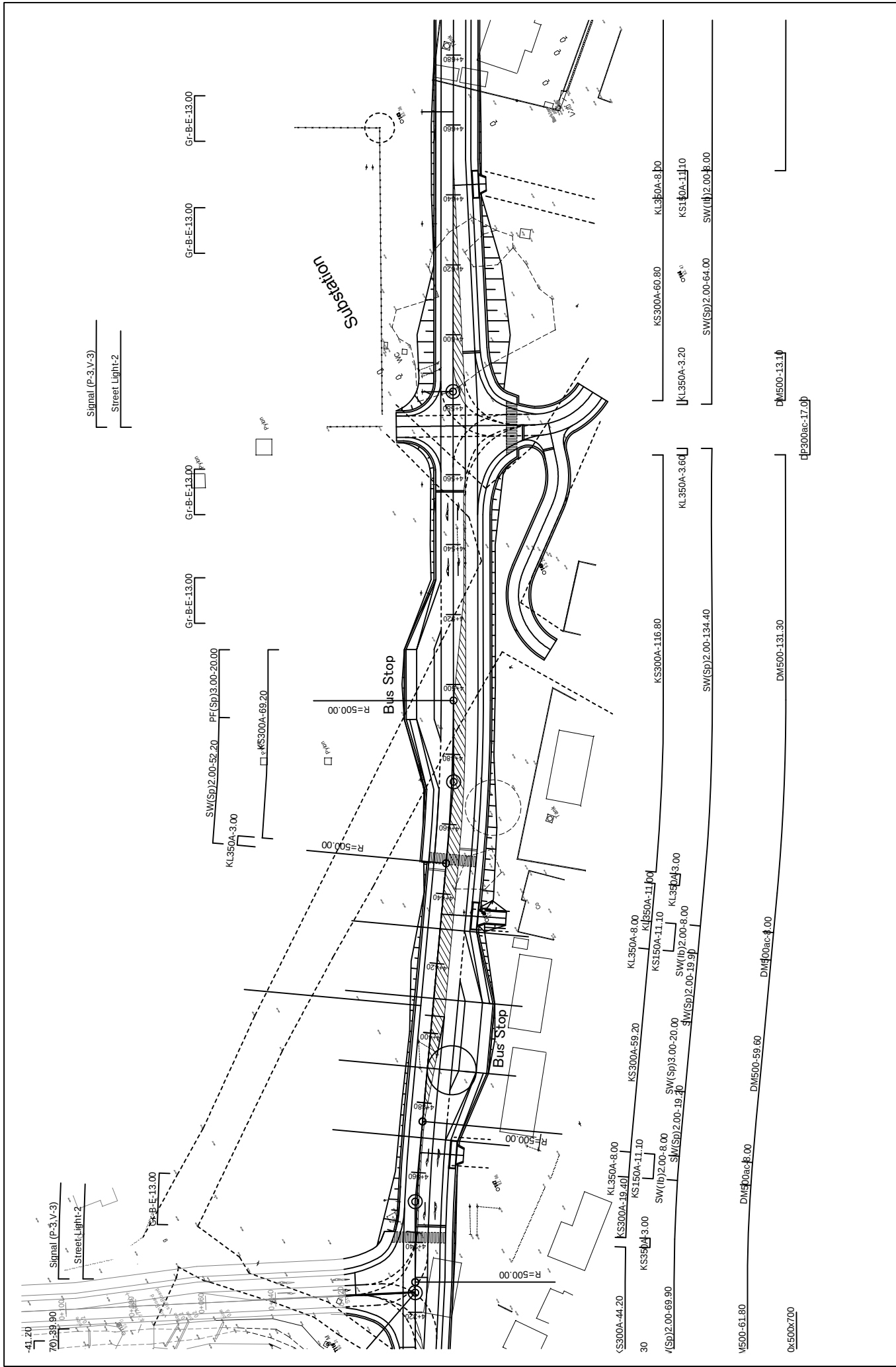


MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: PLAN MINI BYPASS LINK ~ INNER RING RD ~ KASAMA RD ~ MOSI-OA-TUNYA JCT ~ LS-MFEZ (STA. 2+520 ~ STA. 2+880)	Drawing No. SCALE DATE	PL-110 1/1000 Jan. 2011
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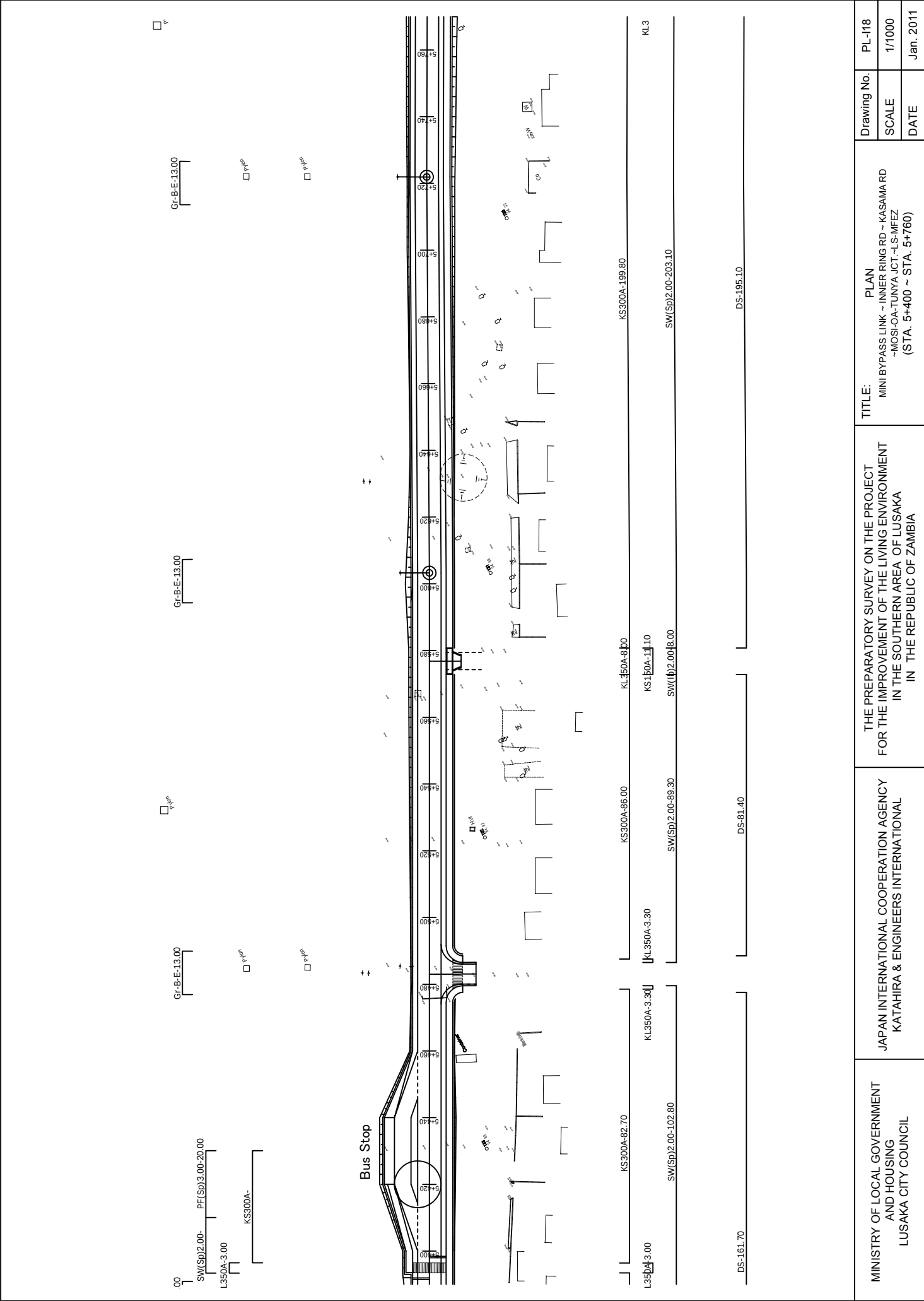


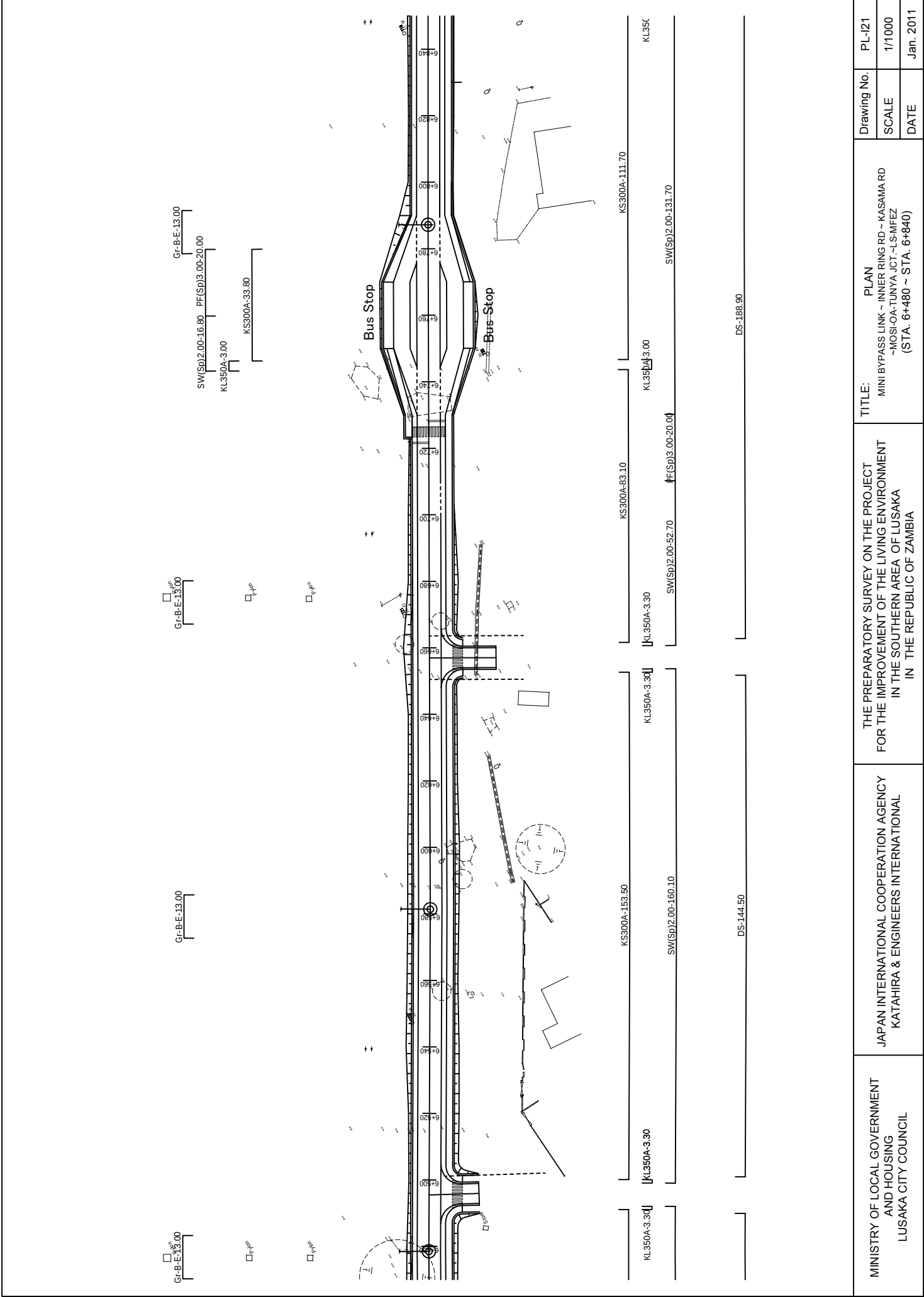
MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: PLAN MINI BYPASS LINK ~ INNER RING RD - KASAMA RD ~MOSOA-TUNYA JCT.~LSMFEZ (STA. 2+880 ~ STA. 3+240)	Drawing No. SCALE DATE	PL-111 1/1000 Jan. 2011
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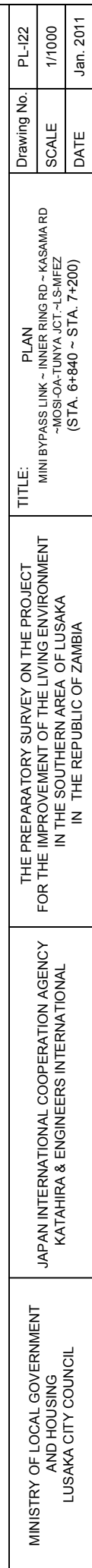


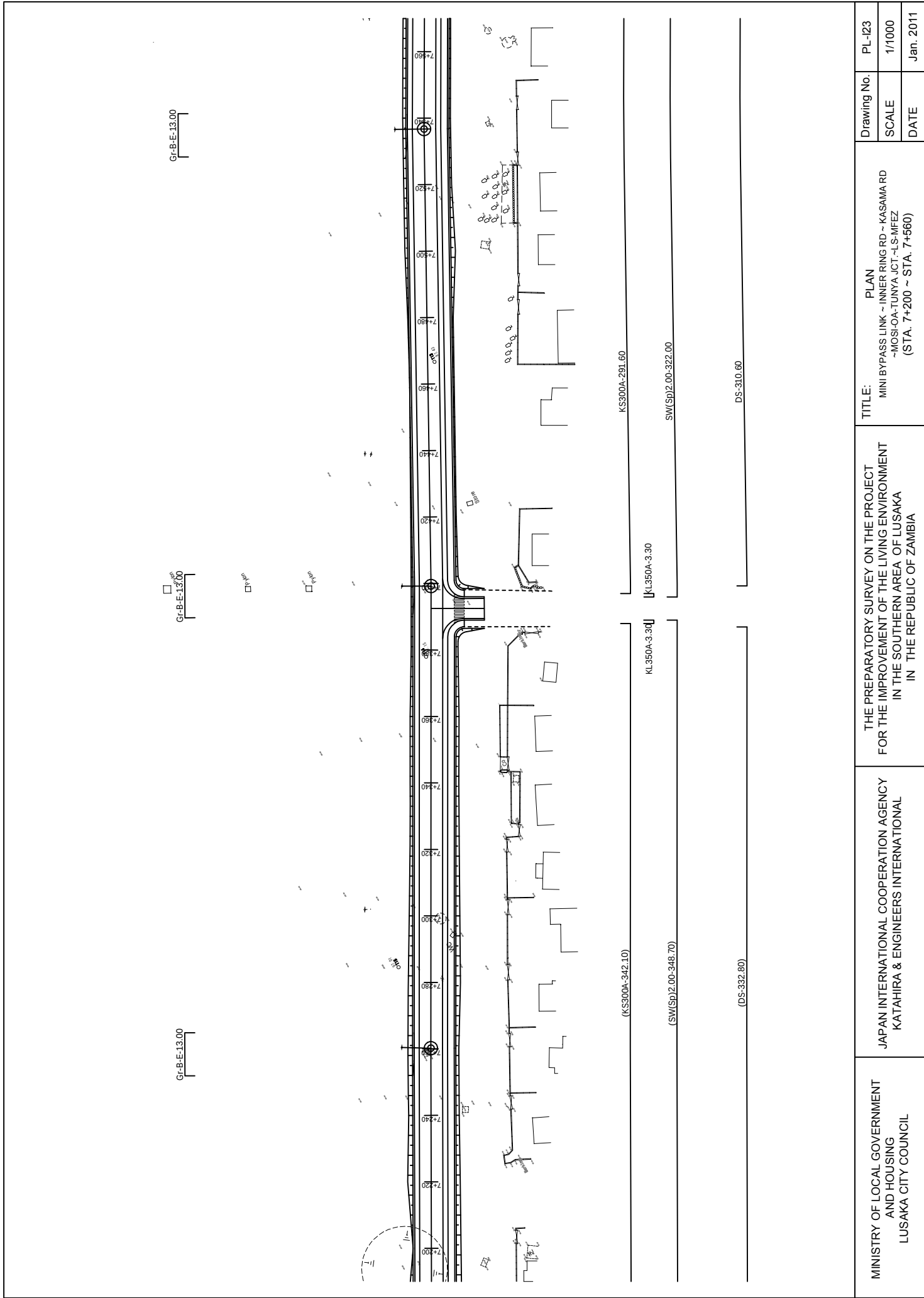


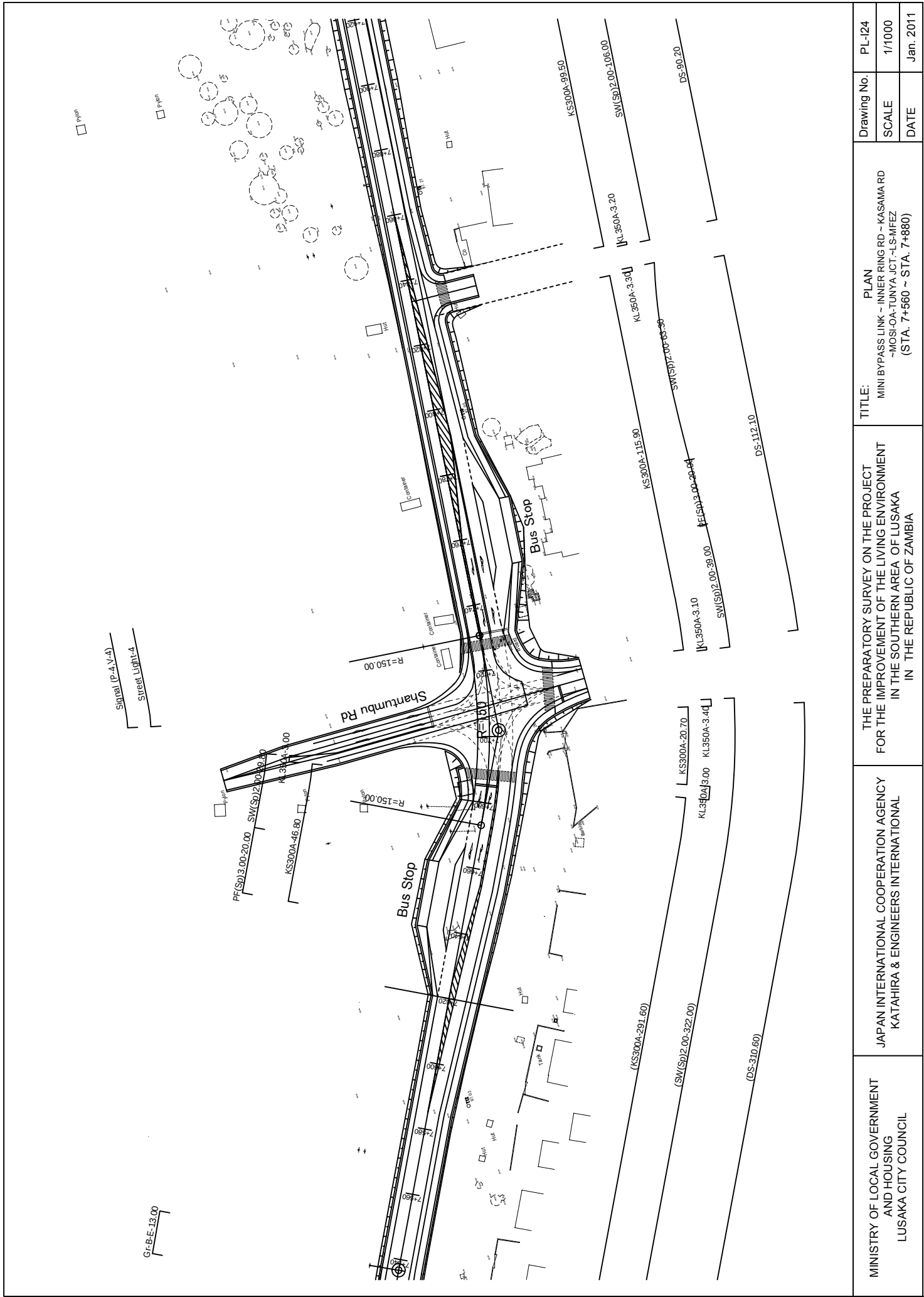
MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: MINI BYPASS LINK ~ INNER RING RD ~ KASAMA RD ~ MOSI-OA-TUNYA JCT. ~ L-S-MFEZ (STA. 4+320 ~ STA. 4+680)	Drawing No.	PL-I/15
					SCALE
					DATE
					1/1000
					Jan. 2011



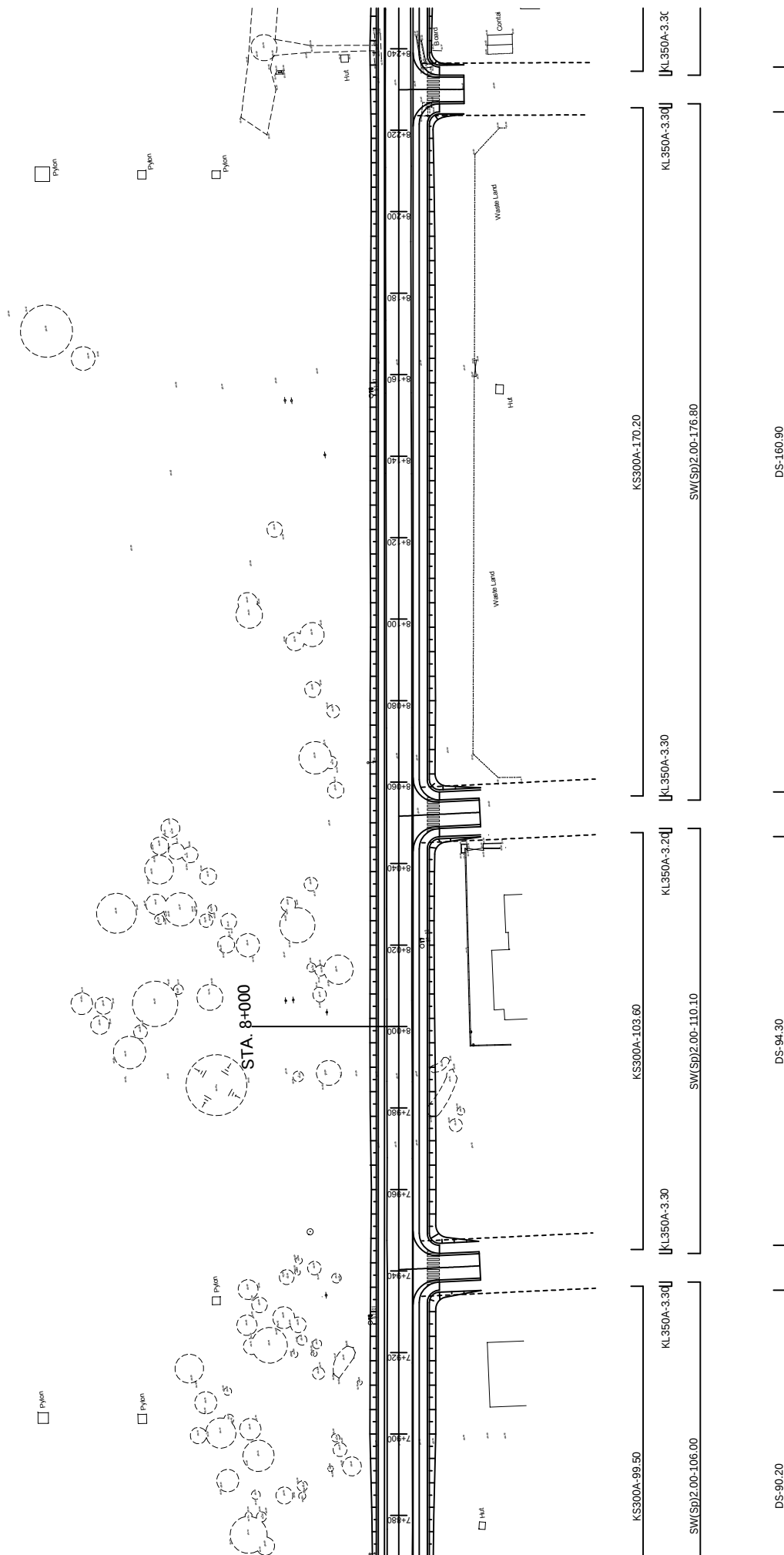




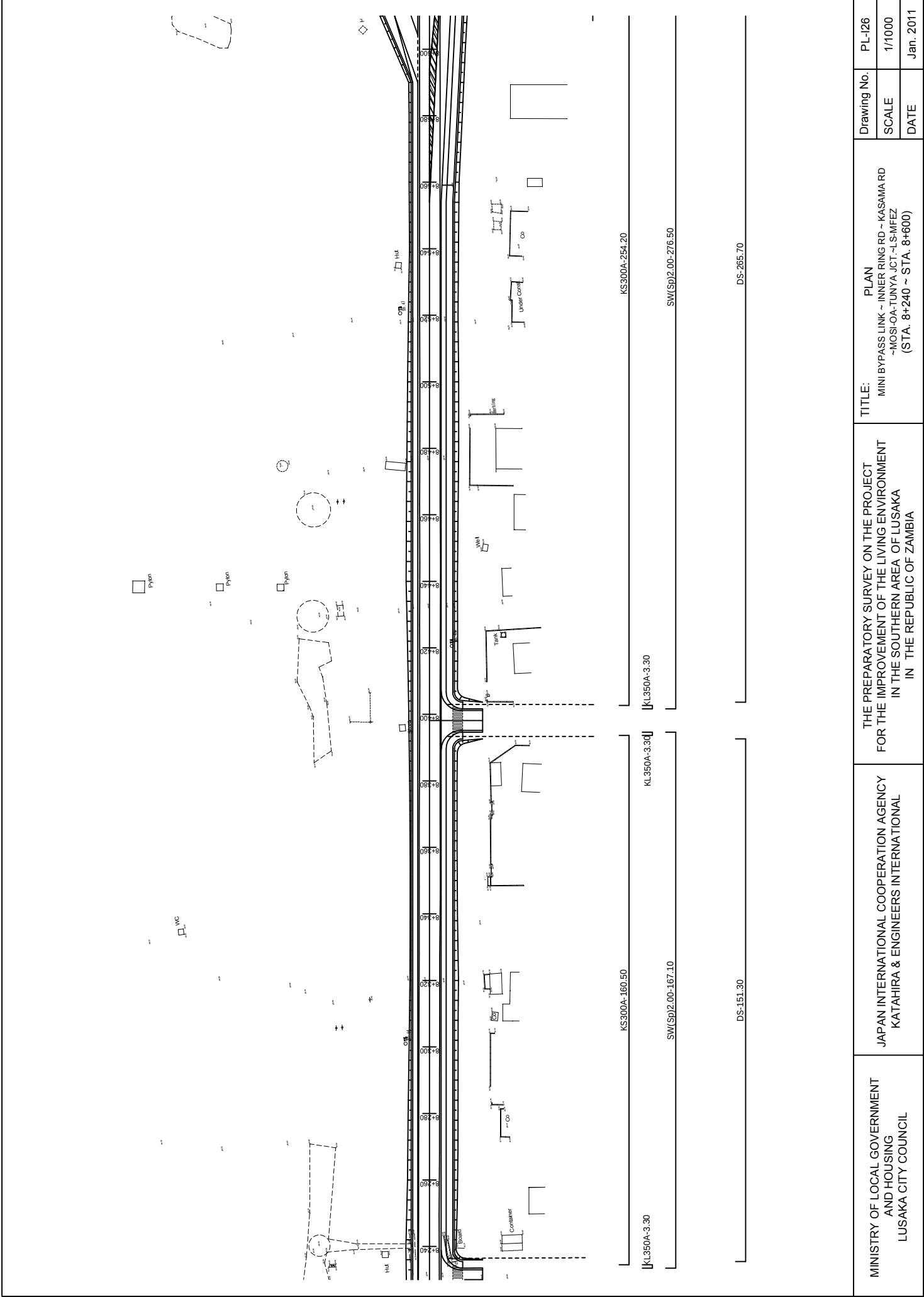




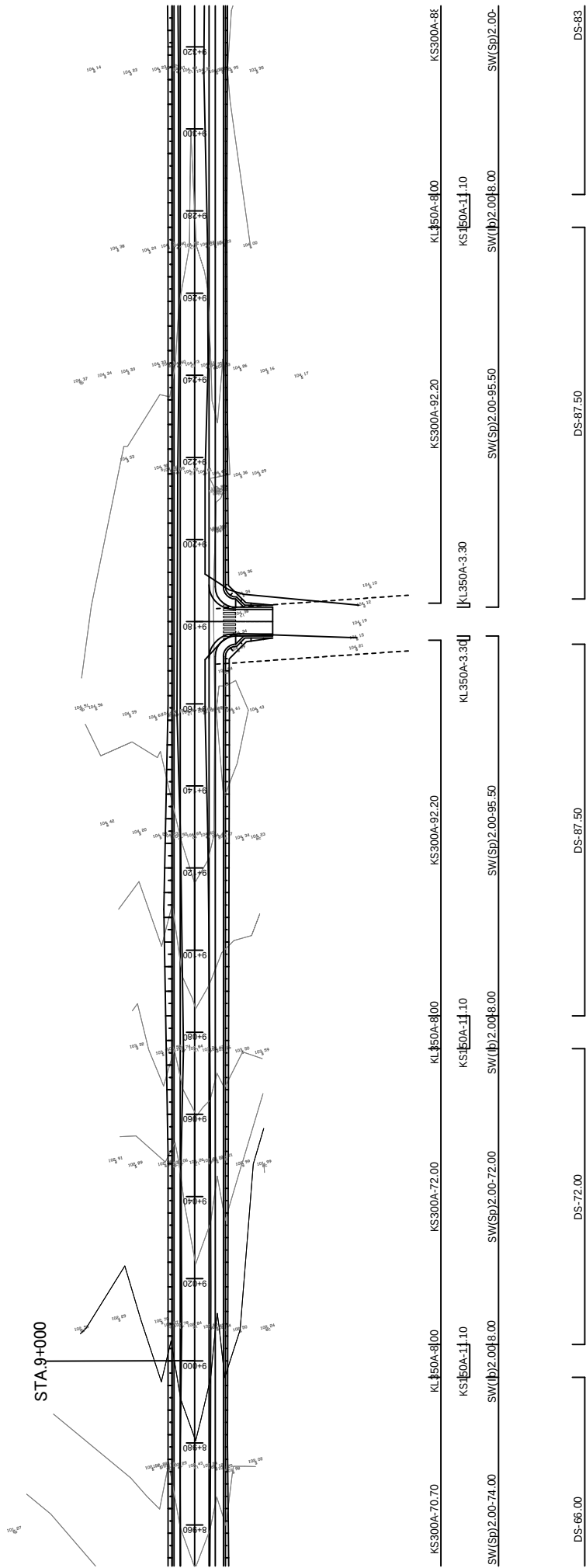
MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: PLAN MINI BYPASS LINK ~ INNER RING RD ~ KASAMA RD ~ MOSI-OA-TUNYA JCT. ~ S-MFEZ (STA. 7+560 ~ STA. 7+880)	Drawing No.	PL-124
				SCALE	1/1000
				DATE	Jan. 2011



MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE:	PLAN MINI BYPASS LINK ~ INNER RING RD ~ KASAMA RD ~ MOSI-OA-TUNYA JCT. ~ S-MFEZ (STA. 7+880 ~ STA. 8+240)
			Drawing No.	PL-125
			SCALE	1/1000
			DATE	Jan. 2011

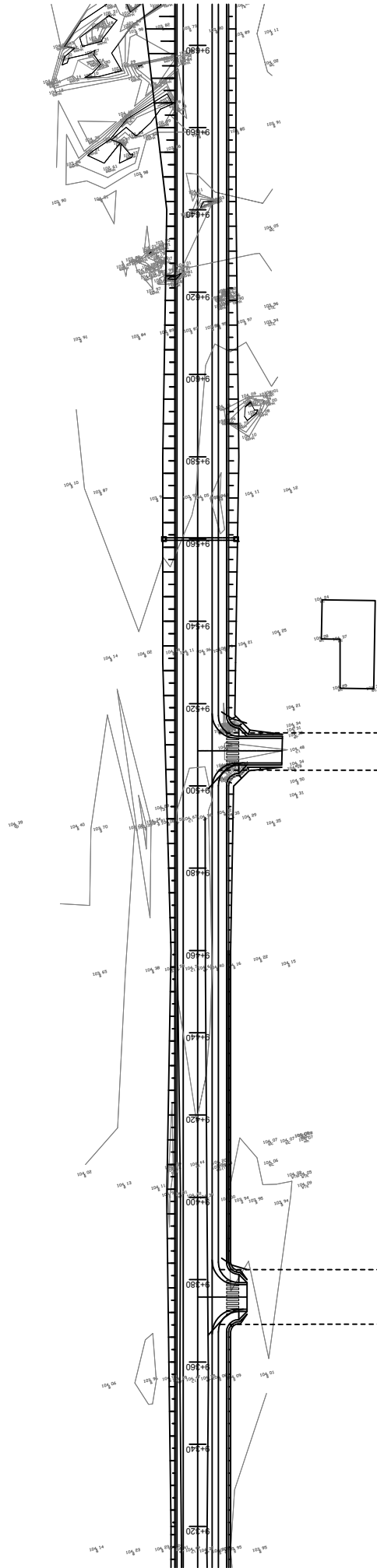


MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: PLAN MINI BYPASS LINK ~ INNER RING RD ~ KASAMA RD ~ MOSI/OA-TUNYA JCT. ~ L-S-MFEZ (STA. 8+240 ~ STA. 8+600)	Drawing No.	PL-126
				SCALE	1/1000
				DATE	Jan. 2011



MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: PLAN MINI BYPASS LINK ~ INNER RING RD ~ KASAMA RD ~ MOSI-OA-TUNYA JCT ~LS-MFEZ (STA. 8+960 ~ STA. 9+320)		Drawing No.	PL-128
					SCALE	1/1000
					DATE	Jan. 2011

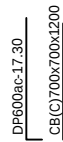
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CB(C)700x700x1200

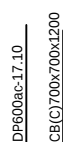


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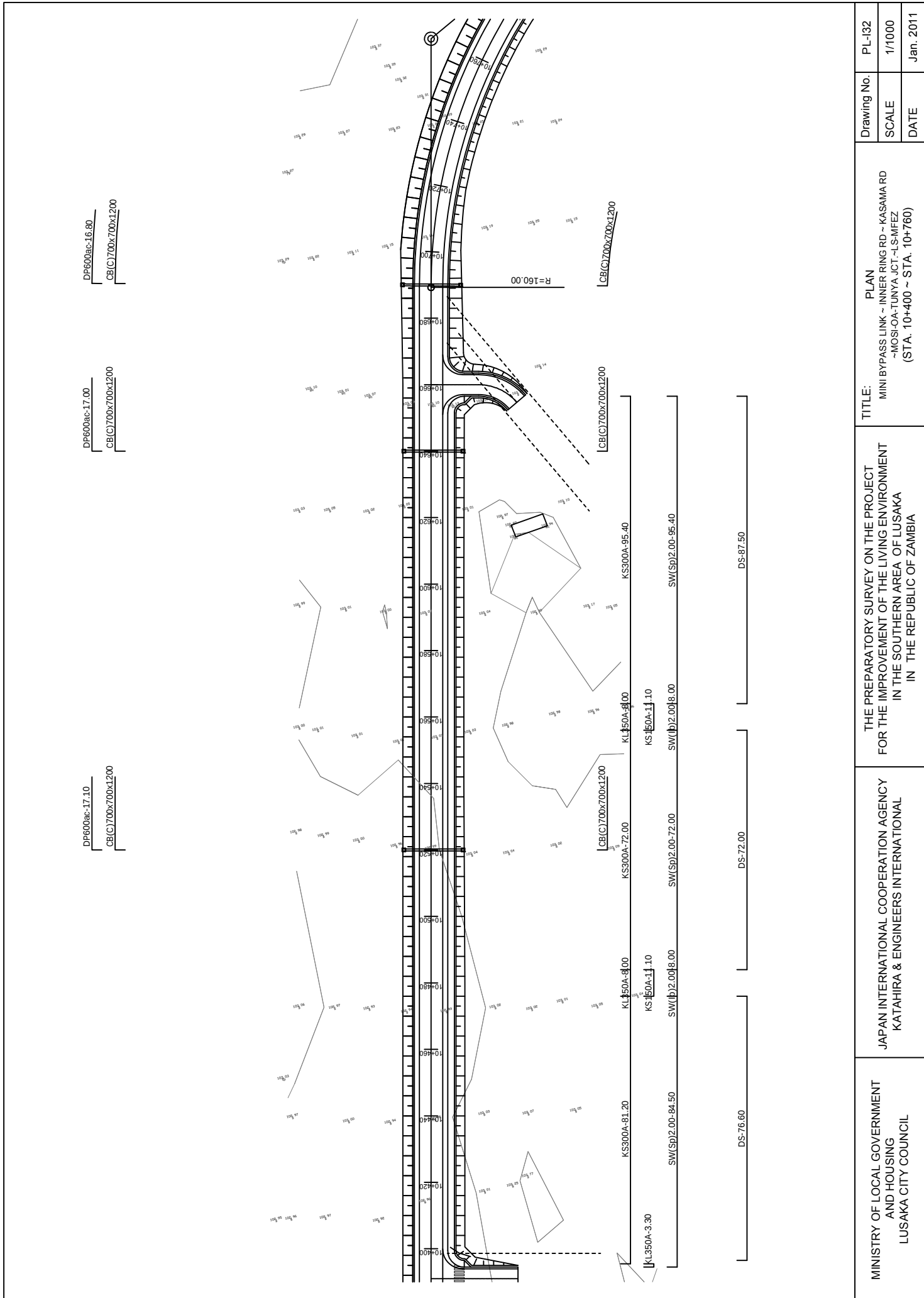
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KL 350A-3.30	KL 350A-3.30	KS 350A-11.10	KL 350A-3.30	KL 350A-3.30	KS 350A-11.10	KS 300A-77.80
SW(Sp)2.00-91.30	SW(Sp)2.00-59.70	SW(Sp)2.00-8.00	SW(Sp)2.00-64.00	SW(Sp)2.00-101.10	SW(Sp)2.00-8.00	SW(Sp)2.00-77.80
DS-83.30	DS-51.80		DS-56.10	DS-93.20		DS-77.80

MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: PLAN MINI BYPASS LINK ~ INNER RING RD ~ KASAMA RD ~ MOSI-OA-TUNYA JCT. ~ L-S-MFEZ (STA. 9+320 ~ STA. 9+680)	Drawing No.	PL-I29
				SCALE	1/1000
				DATE	Jan. 2011

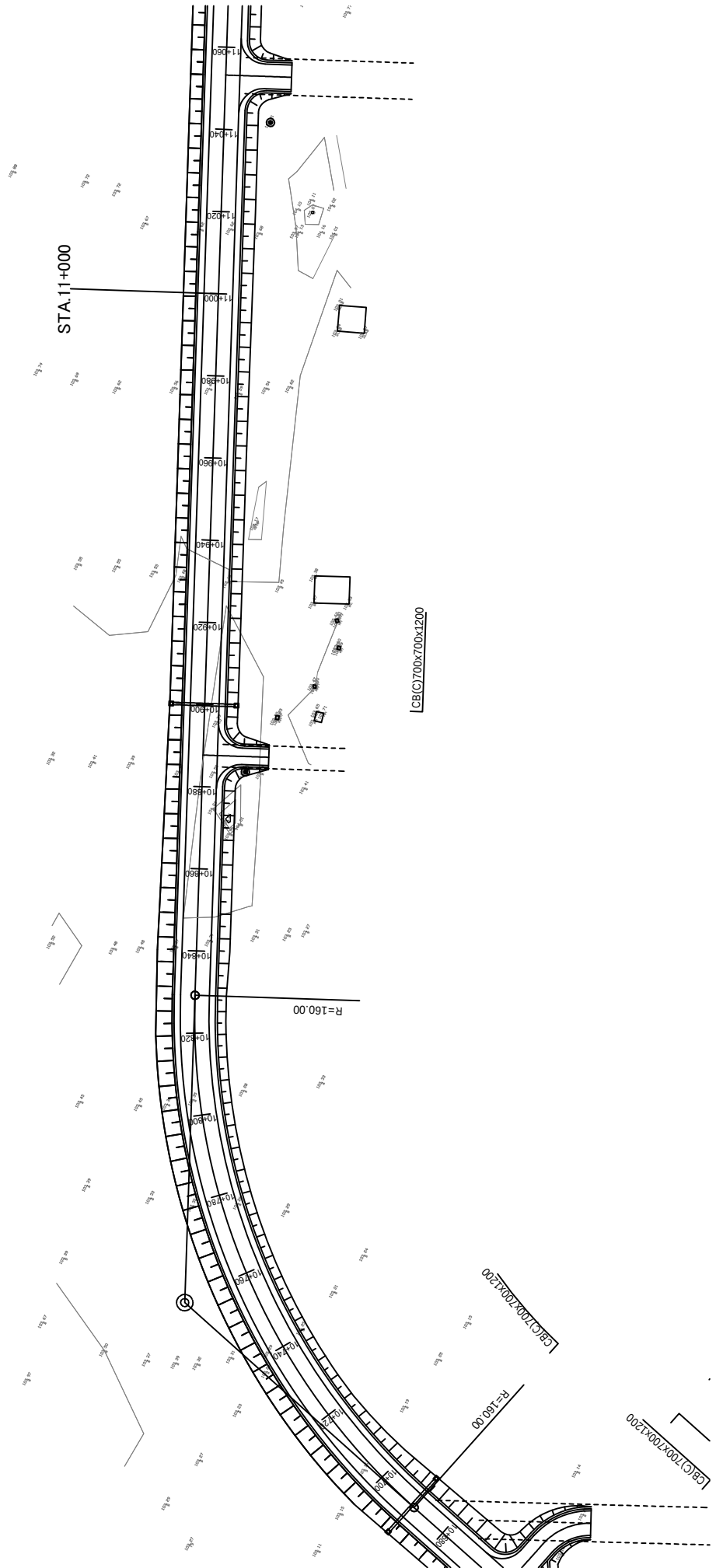




MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: PLAN MINI BYPASS LINK ~ INNER RING RD ~ KASAMA RD ~ MOSI-OA-TUNYA JCT ~ L-S-MFEZ (STA. 10+040 ~ STA. 10+400)	Drawing No. SCALE DATE	PL-131 1/1000 Jan. 2011
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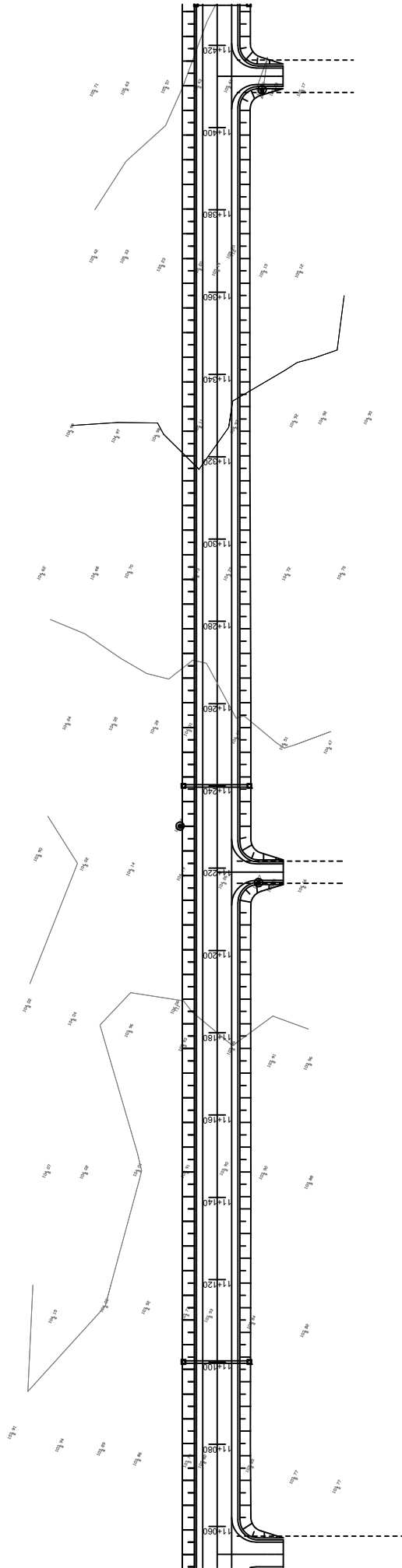
DP600ac-15.20
CB(C) 700x700x1200



MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: PLAN MINI BYPASS LINK ~ INNER RING RD ~ KASAMA RD ~ MOSI-OA-TUNYA JCT. ~ LS-MFEZ (STA. 10+760 ~ STA. 11+060)	Drawing No.	PL-133
				SCALE	1/1000
				DATE	Jan. 2011

DP600ac-15.30
CB(C) 700x700x1200

DP600ac-15.30
CB(C) 700x700x1200



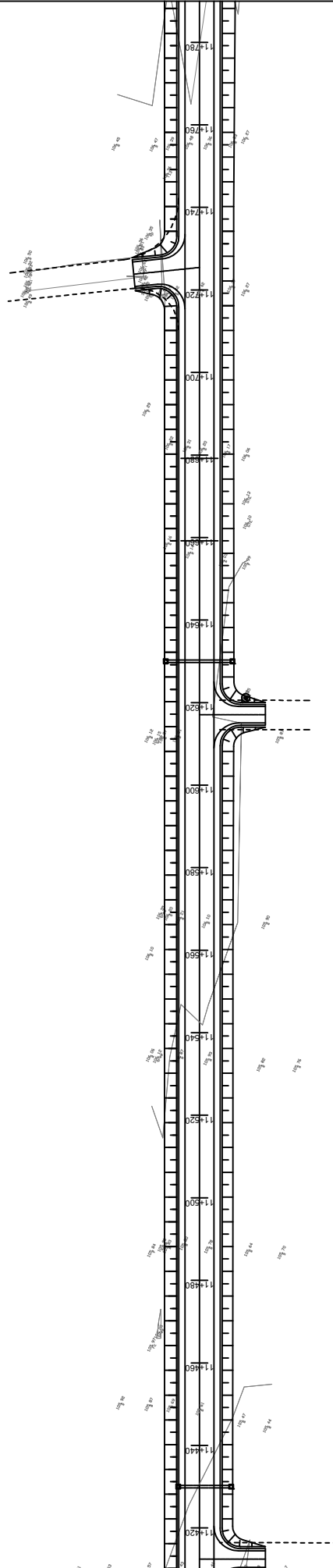
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CB(C) 700x700x1200

MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: PLAN MINI BYPASS LINK ~ INNER RING RD ~ KASAMA RD ~ MOSI-OA-TUNYA JCT. ~ LS-MFEZ (STA. 11+060 ~ STA. 11+420)	Drawing No.	PL-134
				SCALE	1/1000
				DATE	Jan. 2011

DP600ac-12.10
CB(C)700x700x1200

DP600ac-15.50
CB(C)700x700x1200



CB(C)700x700x1200

CB(C)700x700x1200

MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: PLAN MINI BYPASS LINK ~ INNER RING RD ~ KASAMA RD ~ MOSI-OA-TUNYA JCT. ~ S-MFEZ (STA. 11+420 ~ STA. 11+780)	Drawing No.	PL-135
				SCALE	1/1000
				DATE	Jan. 2011

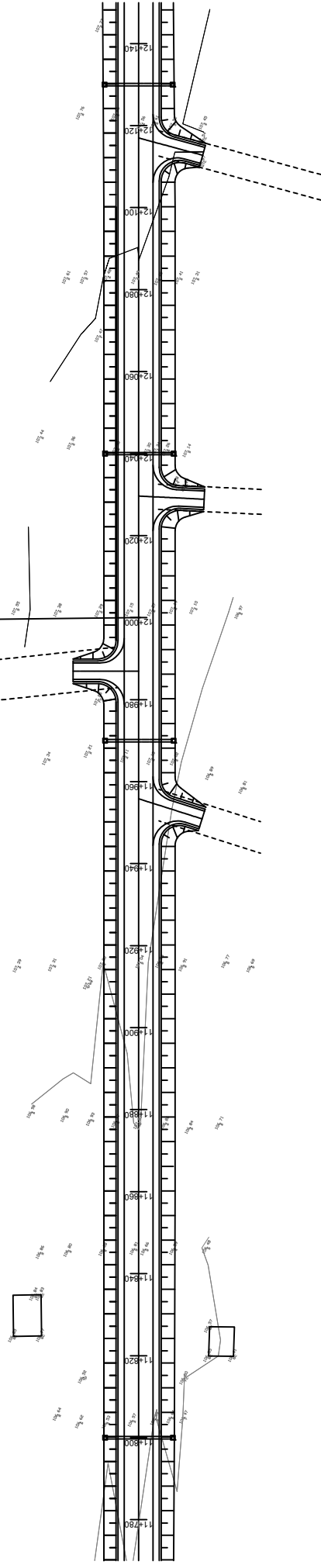
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CB(C)700x700x1200

DP600ac-15.90
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STA. 12+000



CB(C)700x700x1200

CB(C)700x700x1200

CB(C)700x700x1200

CB(C)700x700x1200

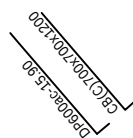
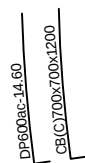
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DS

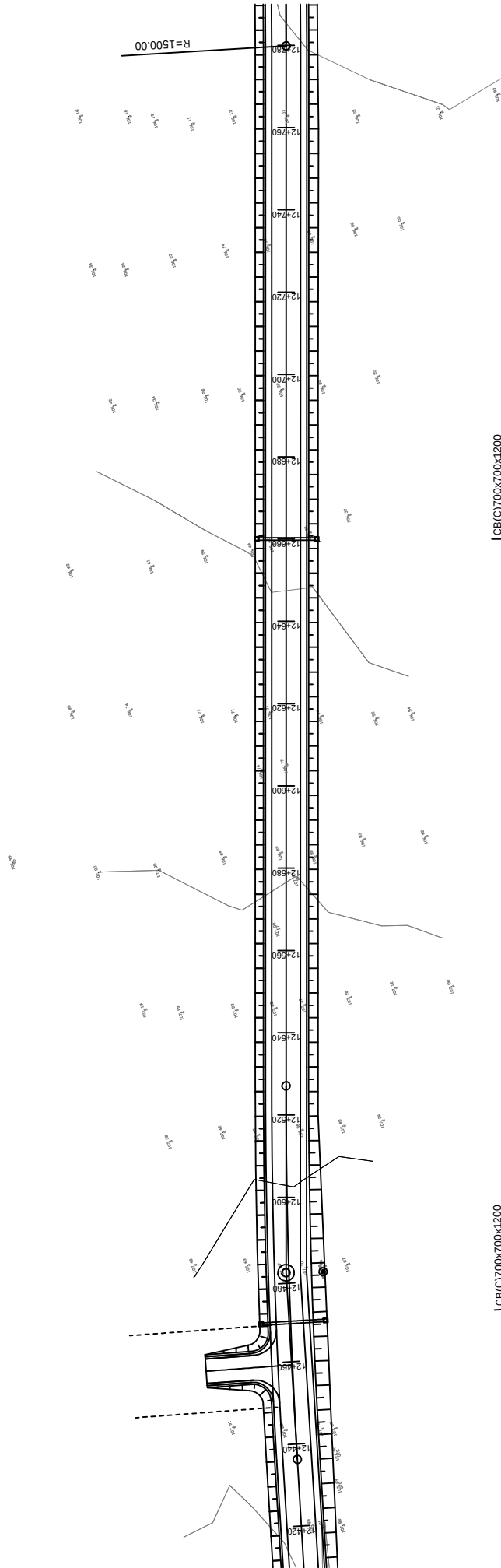
MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: PLAN MINI BYPASS LINK ~ INNER RING RD ~ KASAMA RD ~ MOSI-OA-TUNYA JCT. ~ S-MFEZ (STA. 11+780 ~ STA. 12+140)	
			Drawing No.	PL-136
			SCALE	1/1000
			DATE	Jan. 2011



Drawing No.	PL-137
SCALE	1/1000
DATE	Jan. 2011

DP600ac-15.00
CB(C)700x700x1200

DP600ac-13.90
CB(C)700x700x1200



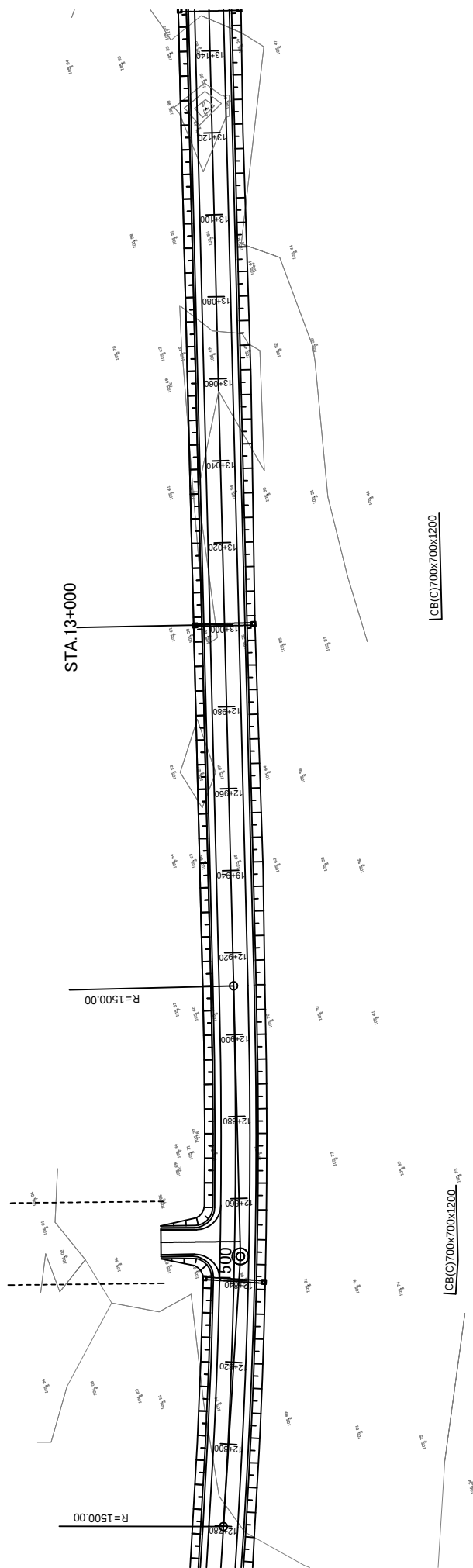
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MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: PLAN MINI BYPASS LINK ~ INNER RING RD ~ KASAMA RD ~ MOSI-OA-TUNYA JCT. ~ LS-MFEZ (STA. 12+440 ~ STA. 12+780)	Drawing No.	PL-138
				SCALE	1/1000
				DATE	Jan. 2011

DP600ac-13.50
 CB(C)700x700x1200

DP600ac-13.80
 CB(C)700x700x1200



CB(C)700x700x1200

CB(C)700x700x1200

MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: PLAN MINI BYPASS LINK ~ INNER RING RD ~ KASAMA RD ~ MOSI-OA-TUNYA JCT. ~ S-MFEZ (STA. 12+780 ~ STA. 13+140)	Drawing No.	PL-139
				SCALE	1/1000
				DATE	Jan. 2011

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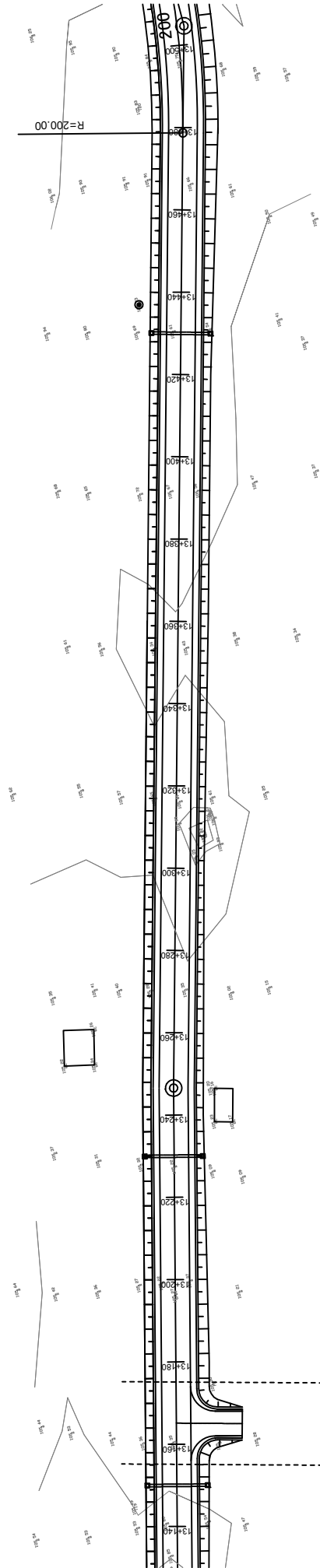
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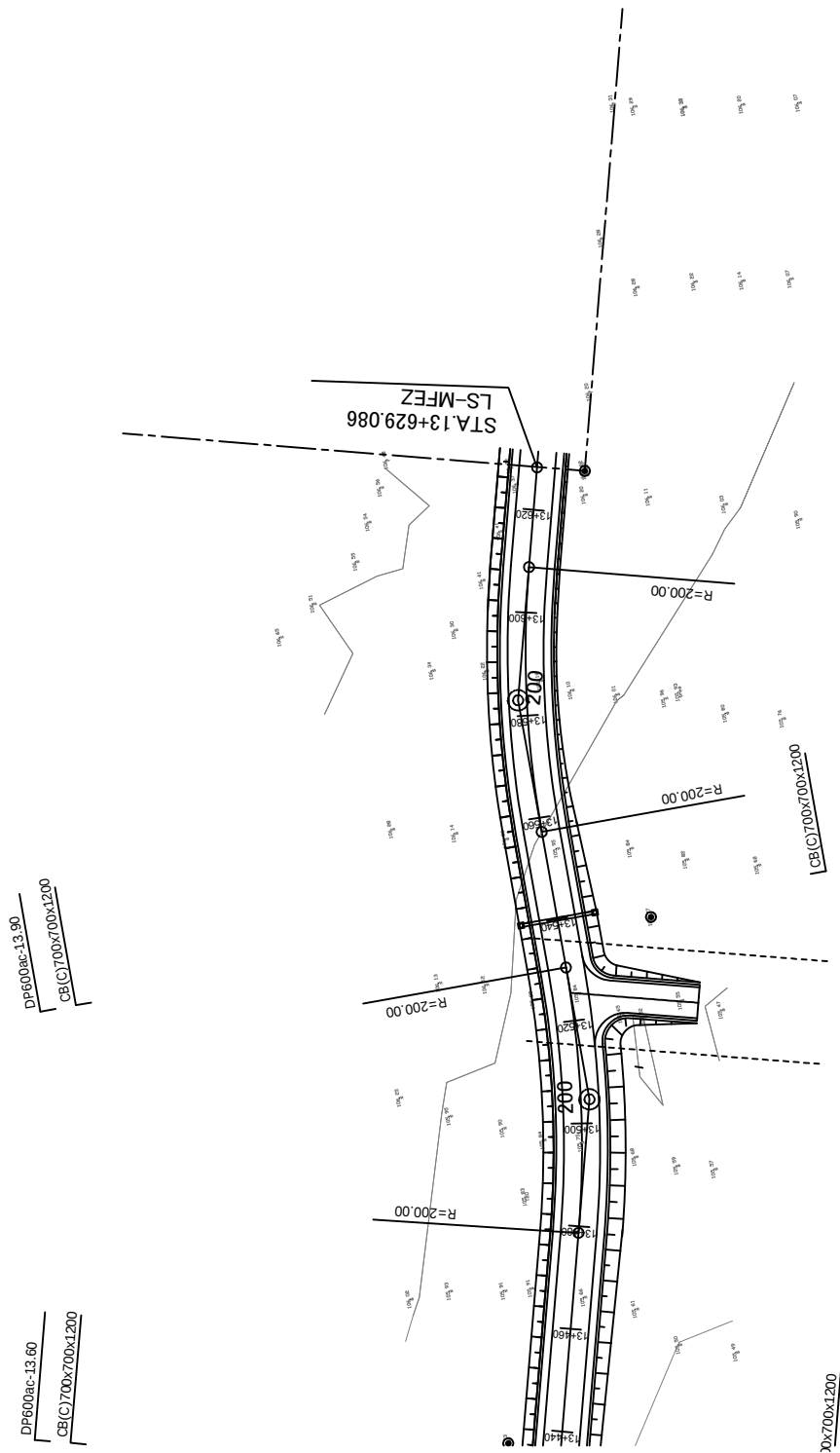


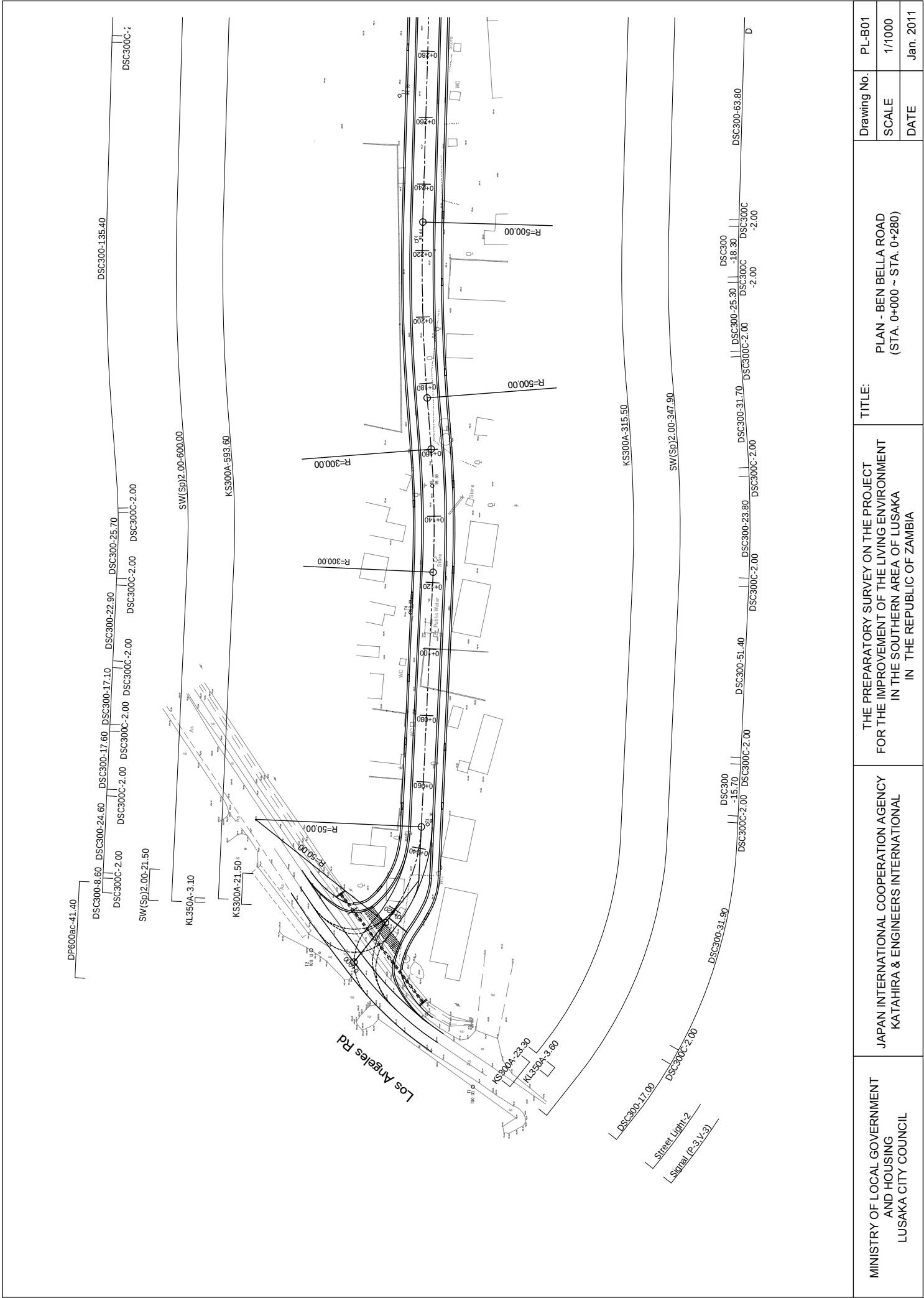
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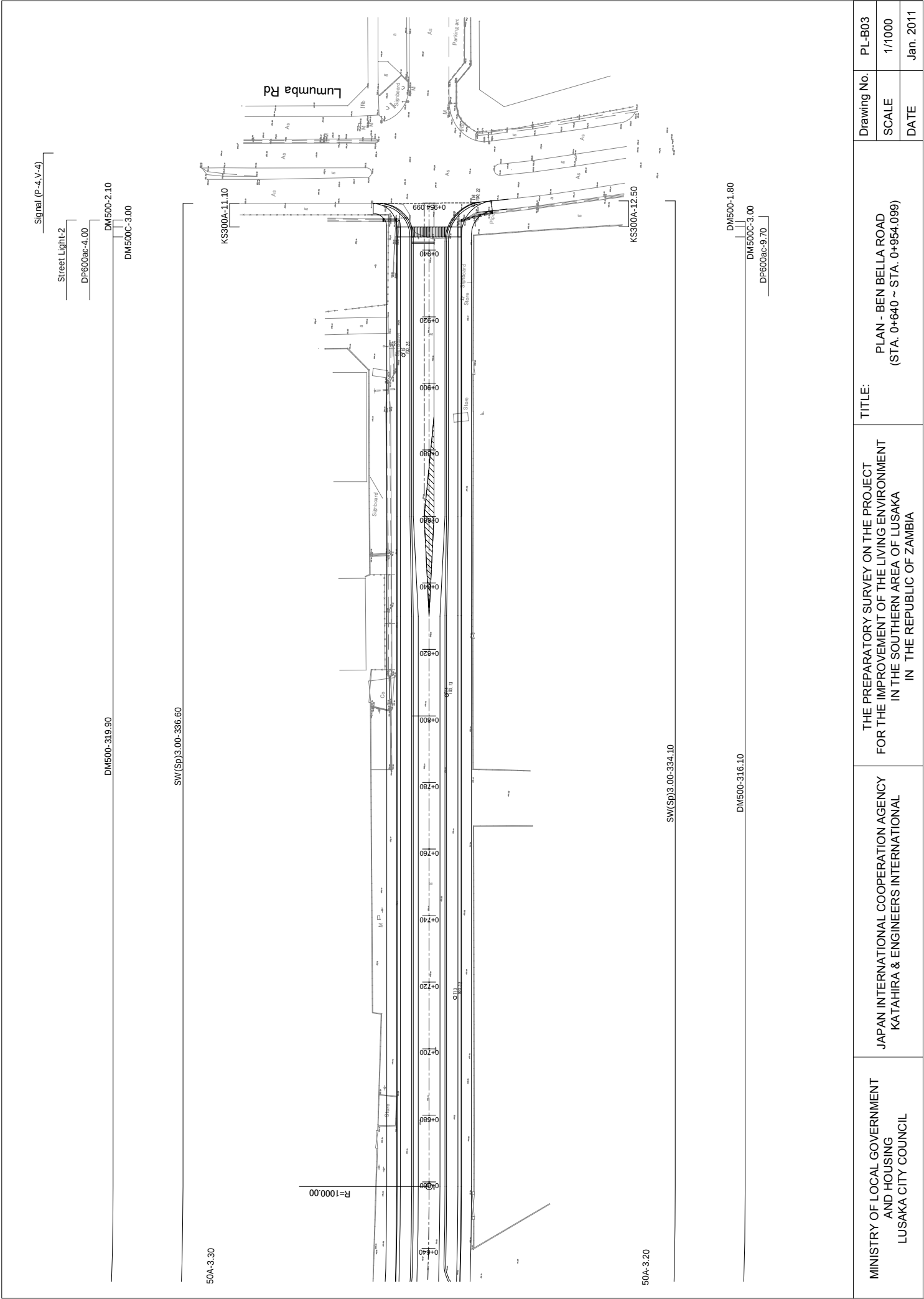
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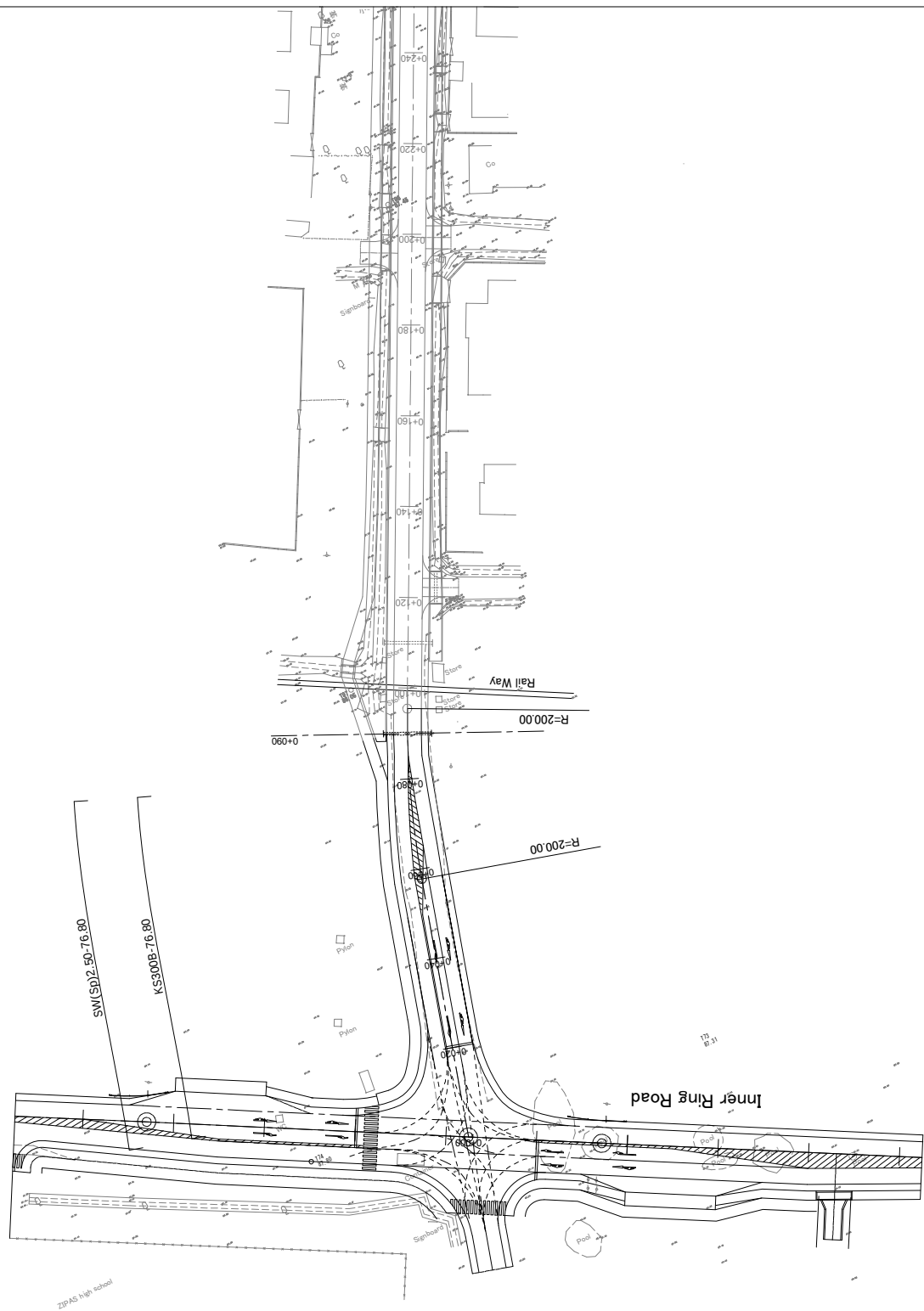
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MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: PLAN MINI BYPASS LINK ~ INNER RING RD ~ KASAMA RD ~ MOSI-OA-TUNYA JCT. ~ L-S-MFEZ (STA. 13+140 ~ STA. 13+480)	Drawing No.	PL-140
				SCALE	1/1000
				DATE	Jan. 2011









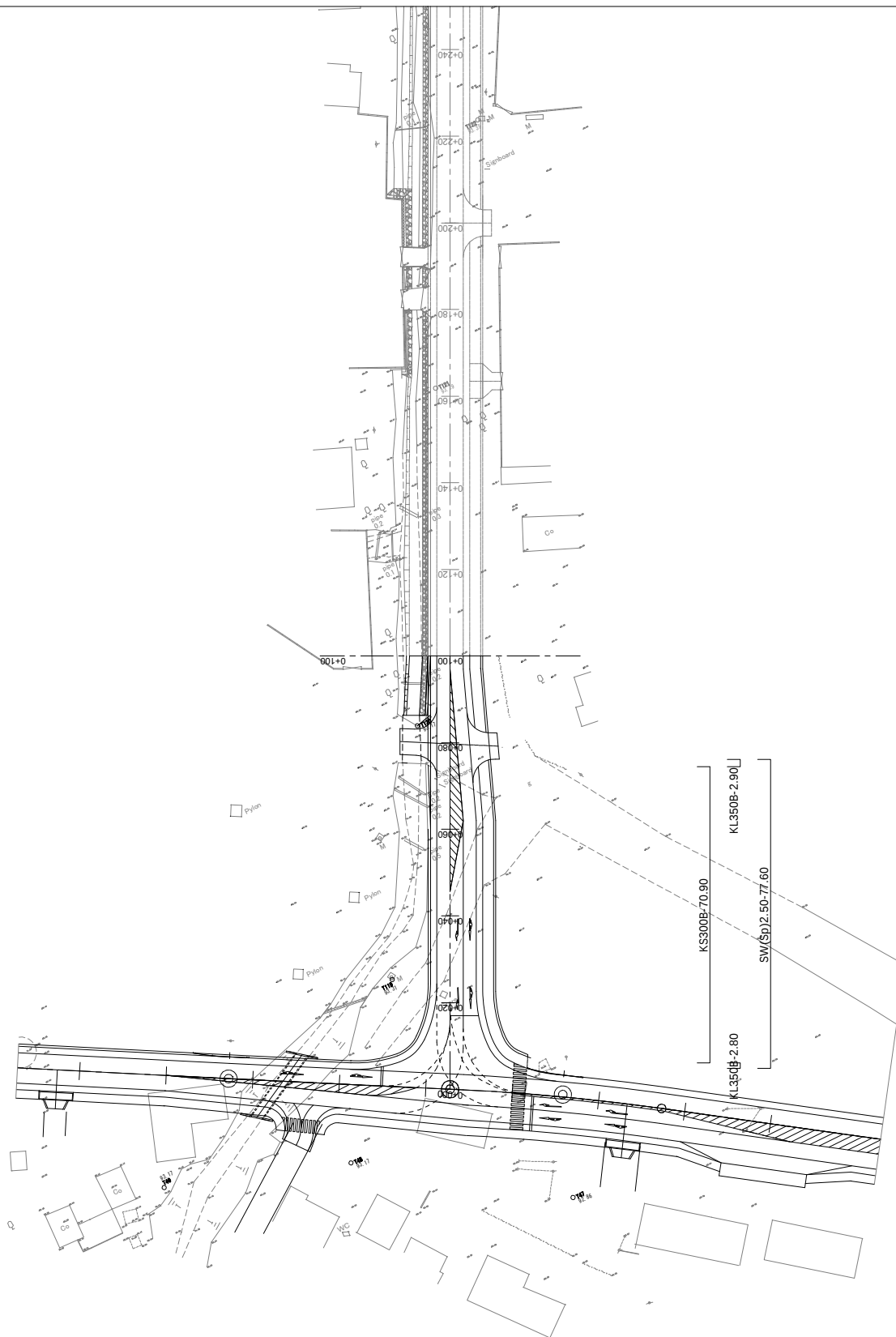
MINISTRY OF LOCAL GOVERNMENT
AND HOUSING
LUSAKA CITY COUNCIL

JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL

THE PREPARATORY SURVEY ON THE PROJECT
FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT
IN THE SOUTHERN AREA OF LUSAKA
IN THE REPUBLIC OF ZAMBIA

TITLE:
INTERSECTION PLAN (1)
CHIBWA ROAD

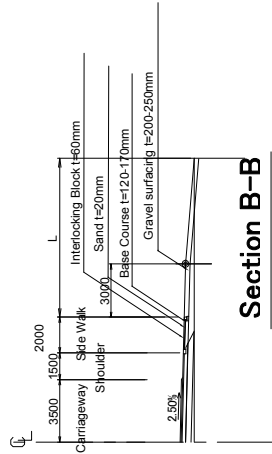
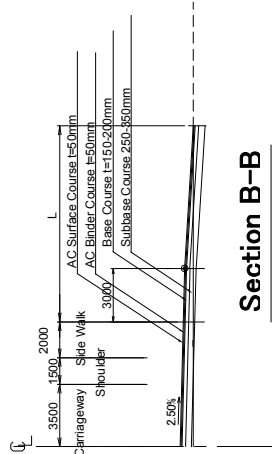
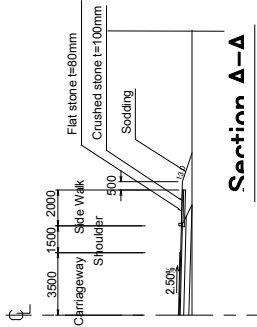
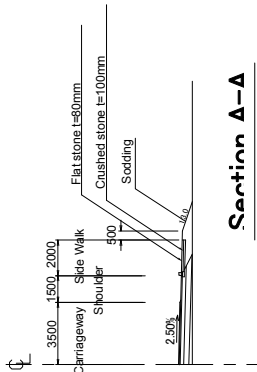
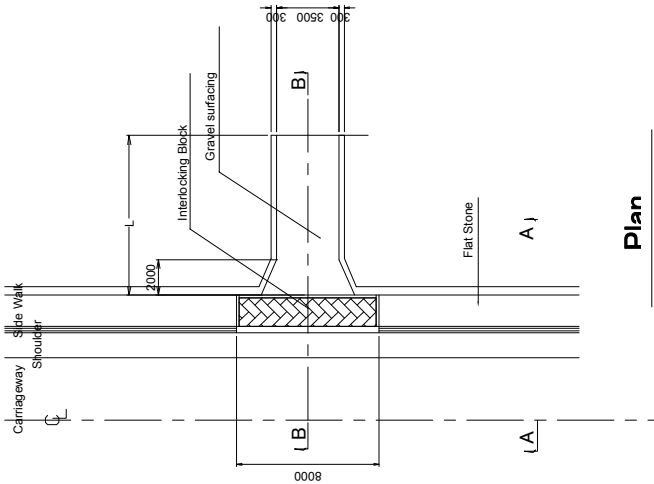
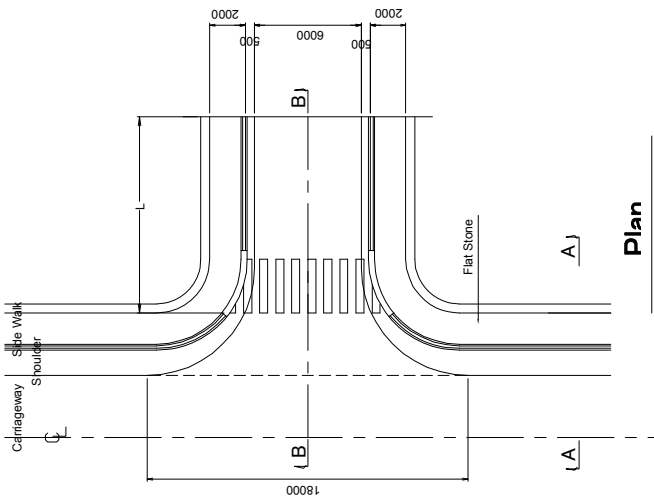
Drawing No.	IS-01
SCALE	1/1000
DATE	Jan. 2011



MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: INTERSECTION PLAN (3) YOTAM MULEYA ROAD	Drawing No.	IS-03
				SCALE	1/1000
				DATE	Jan. 2011

Intersection Type

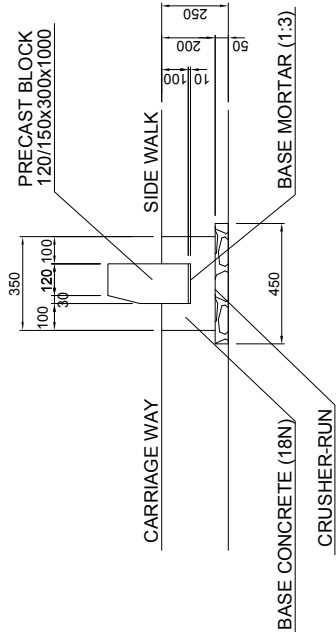
Access Way Type



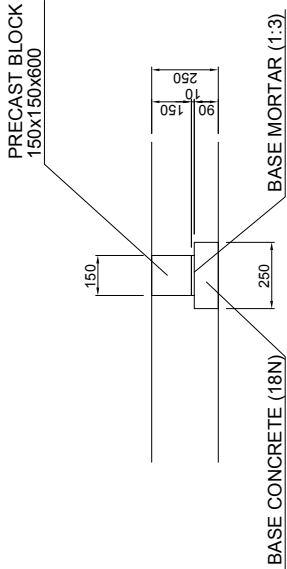
MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: ACCESS WAY		Drawing No.	AC-01
					SCALE	1/300
					DATE	Jan. 2011

KERB STONE

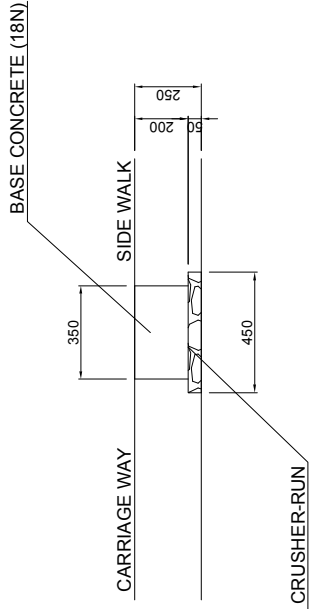
KS300A



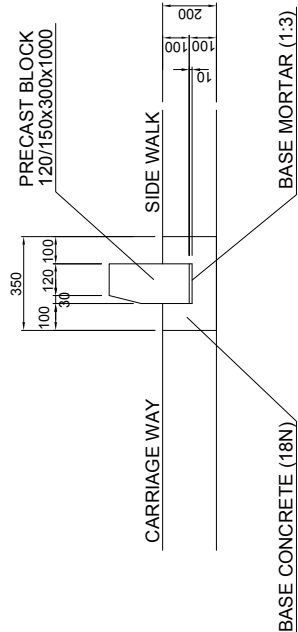
KS150A



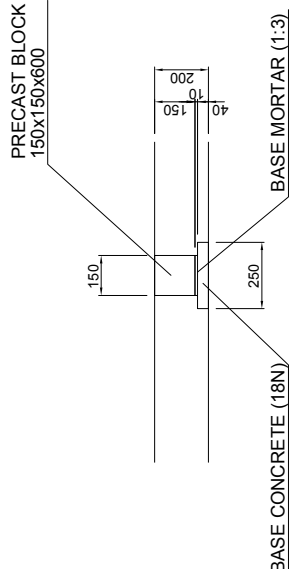
KL350A



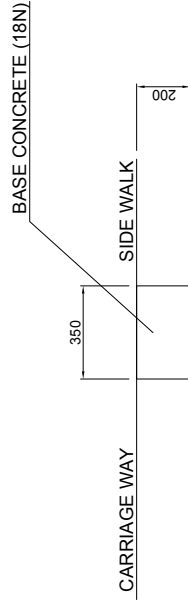
KS300B



KS150B

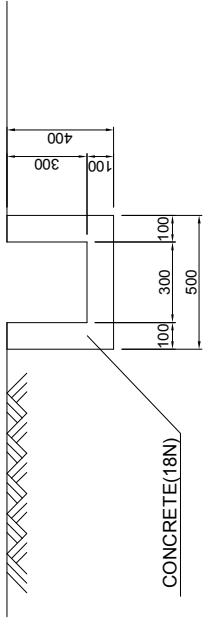


KL350B

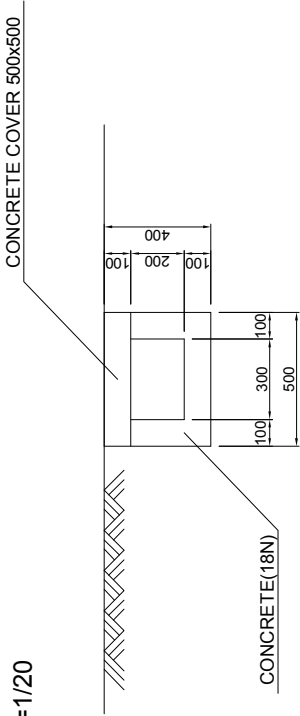


MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: KERB STONE	Drawing No.	KS-01
				SCALE	1/20
				DATE	Jan. 2011

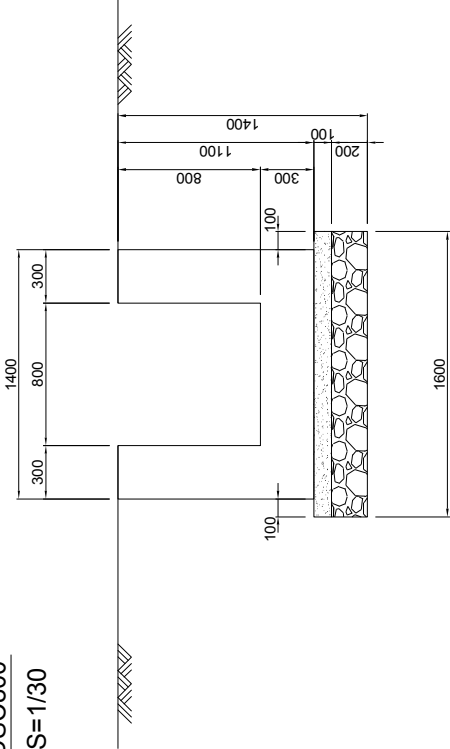
DSC300
S=1/20



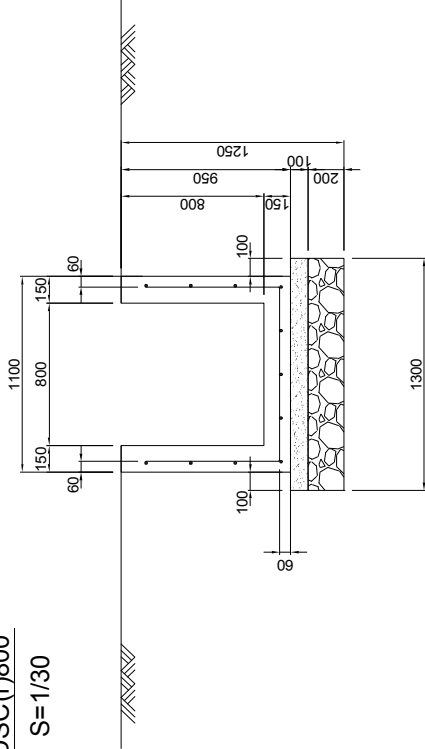
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S=1/20



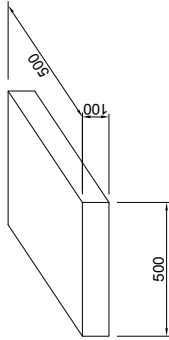
DSC800
S=1/30



DSC(r)800
S=1/30

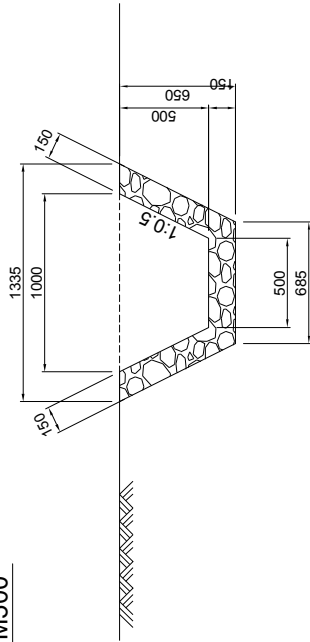


CONCRETE COVER 500x500

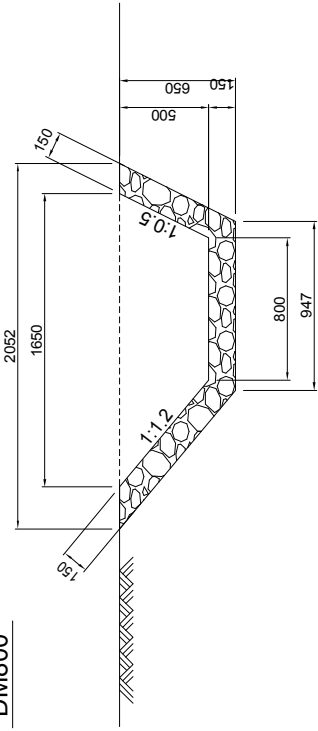


MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: DRAINAGE STRUCTURE (1) LINE DITCH	Drawing No.	DS-01
				SCALE	1/20 1/30
				DATE	Jan. 2011

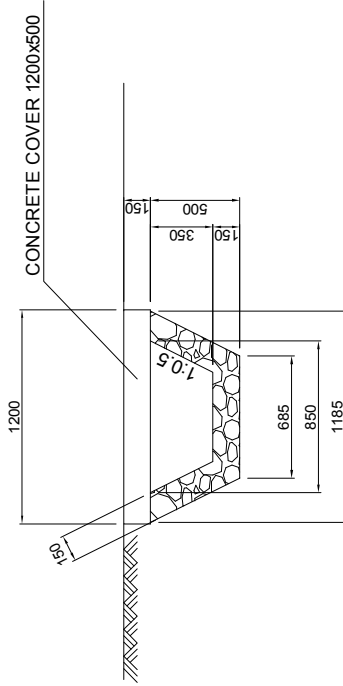
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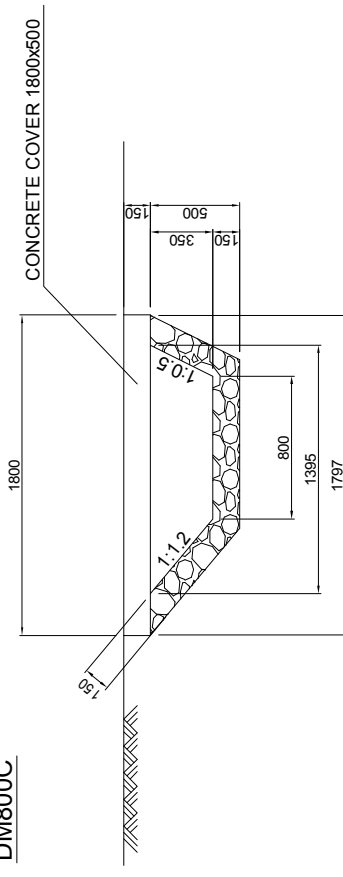
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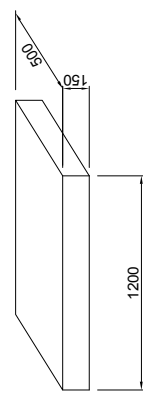
DM500C



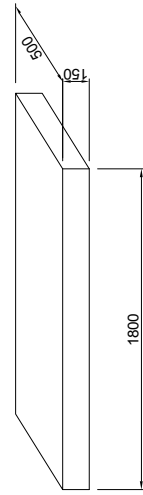
DM800C



CONCRETE COVER 1200x500

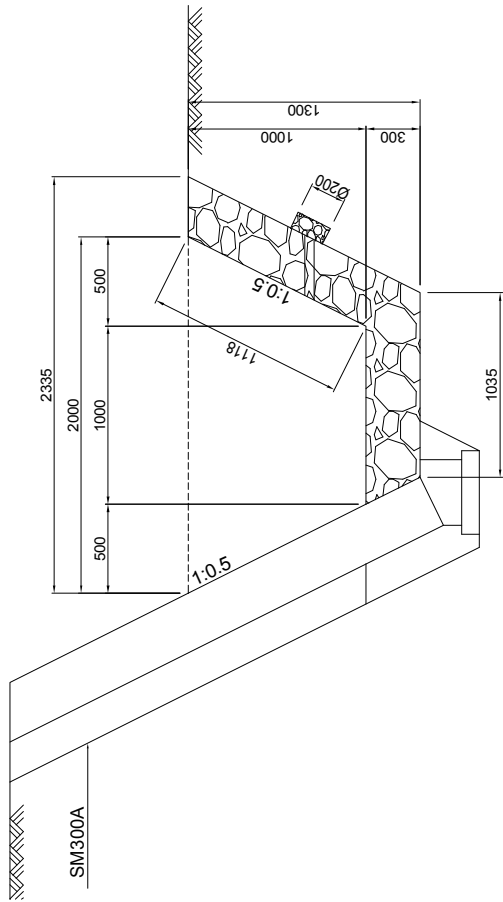


CONCRETE COVER 1800x500

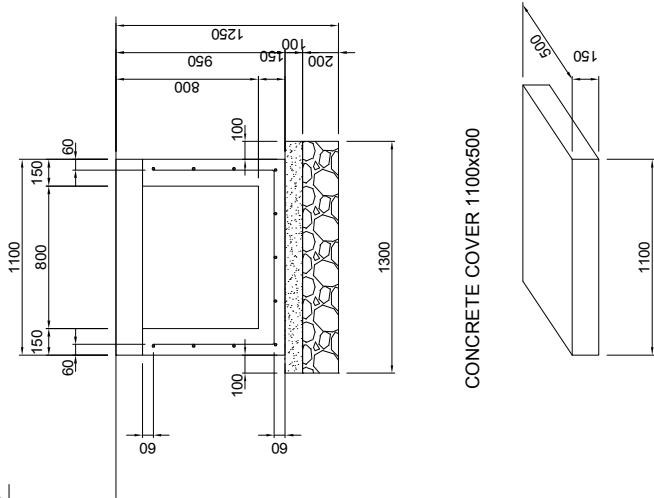


MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: DRAINAGE STRUCTURE (2) LINE DITCH	Drawing No.	DS-02
				SCALE	1/30
				DATE	Jan. 2011

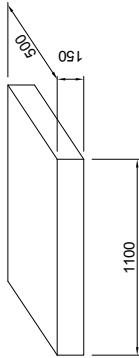
DM1000



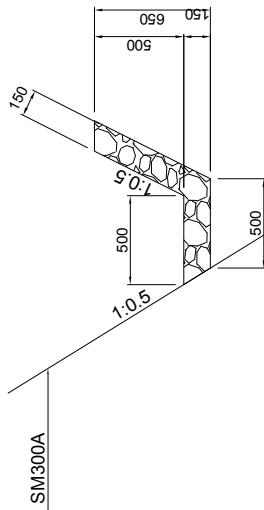
DSC(n)800C



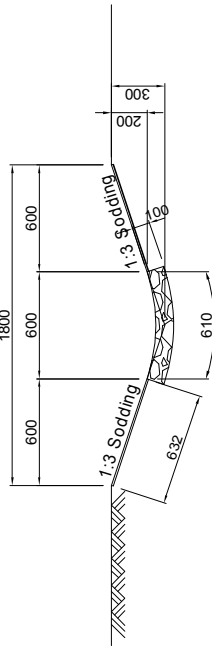
CONCRETE COVER 1100x500



DML500

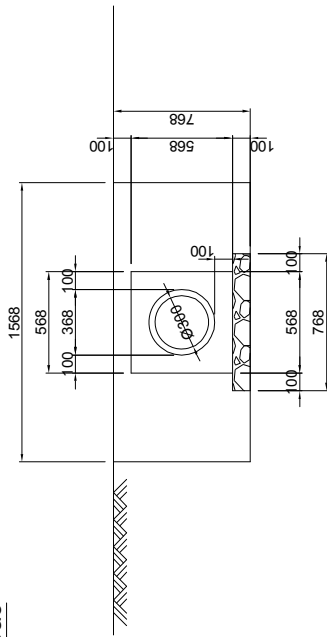


DS

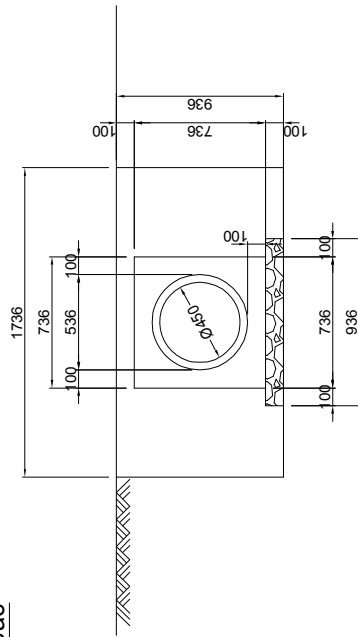


MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: DRAINAGE STRUCTURE (3) LINE DITCH	Drawing No.	DS-03
				SCALE	1/30
				DATE	Jan. 2011

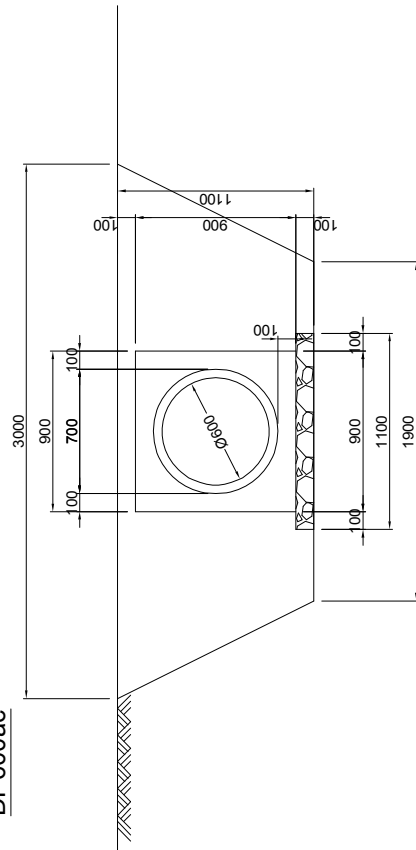
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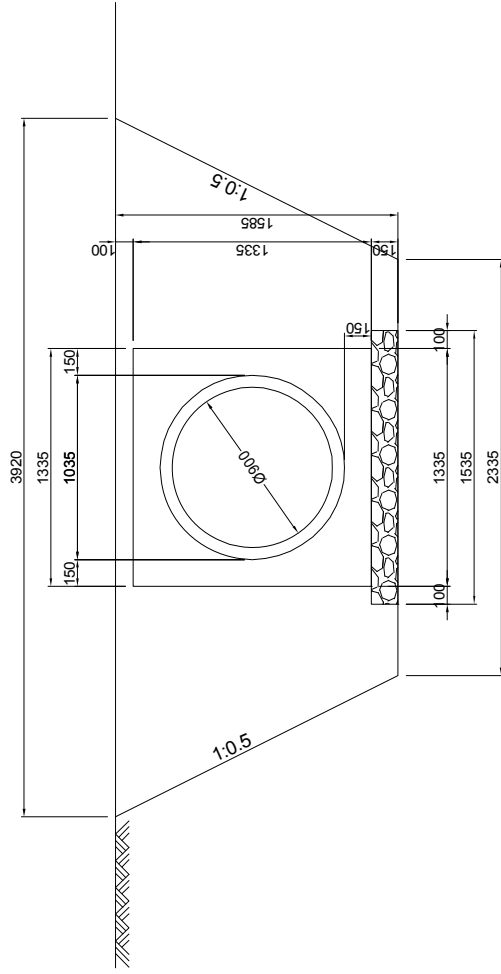
DP450ac



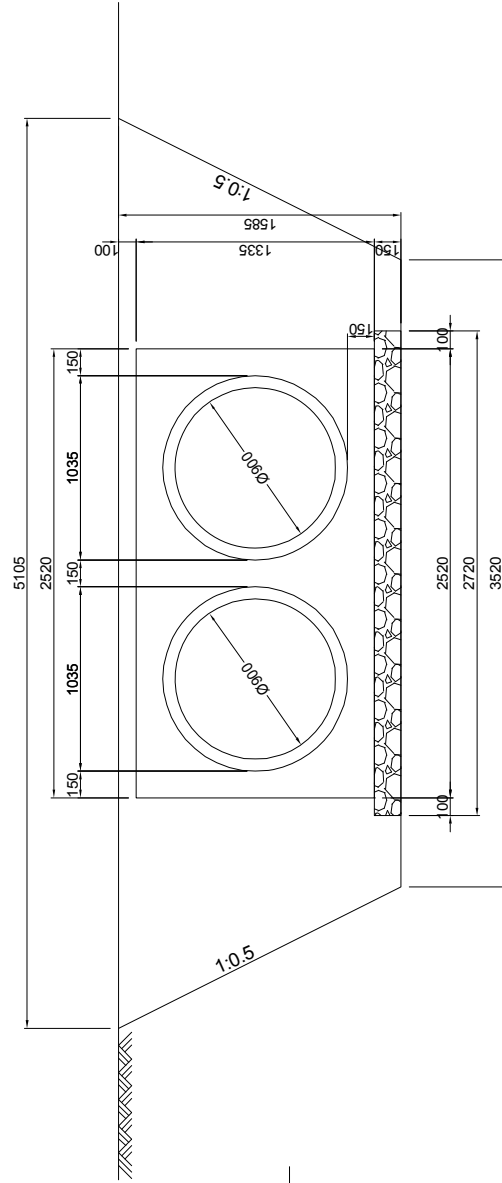
DP600ac



DP900ac

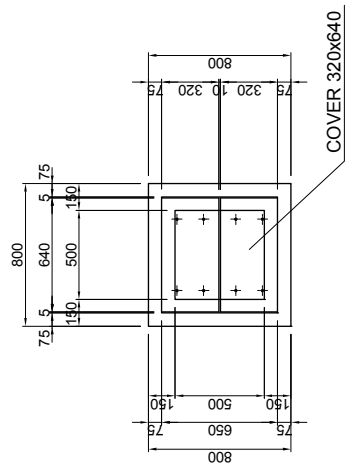


DP2x900ac

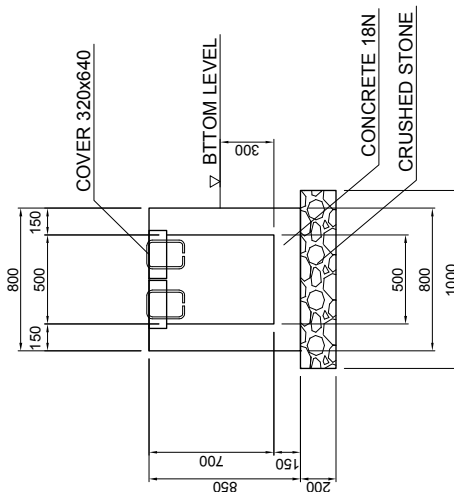


MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: DRAINAGE STRUCTURE (4) CONCRETE PIPE	Drawing No.	DS-04
				SCALE	1/30
				DATE	Jan. 2011

DB(C) 500x500x700

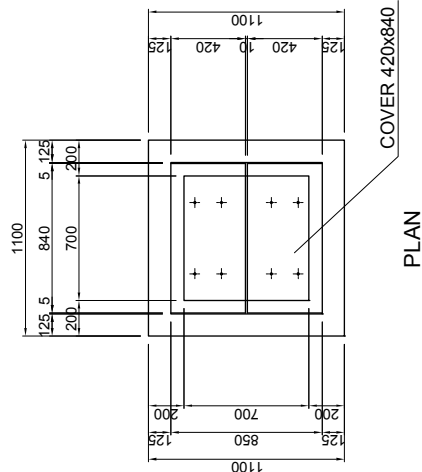


PLAN

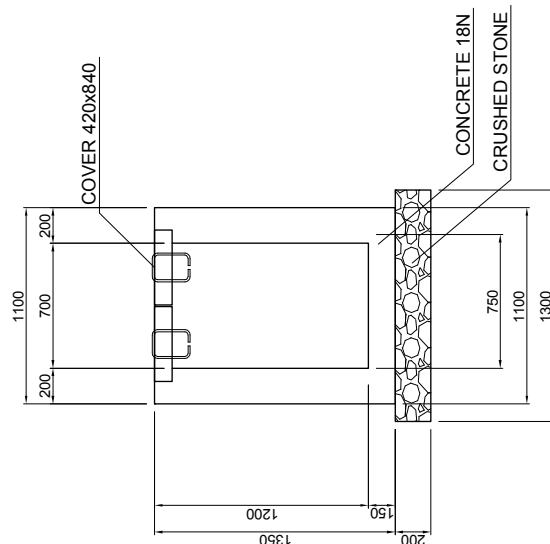


SECTION

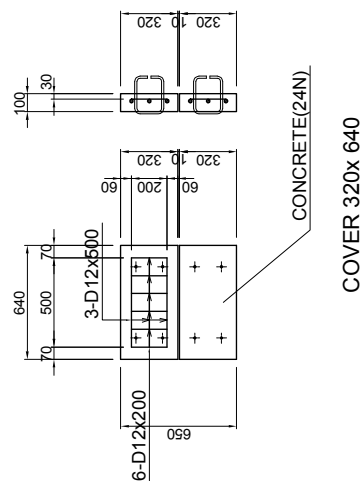
DB(C) 700x700x1200



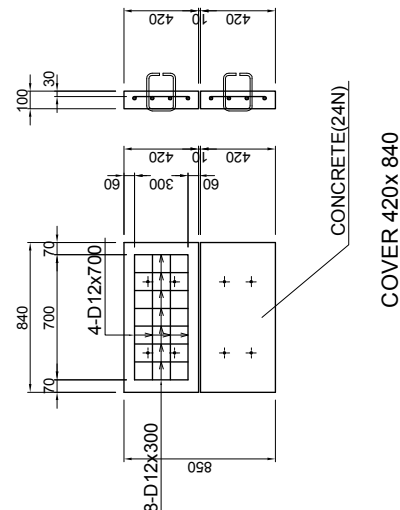
PLAN



SECTION



COVER 320x 640

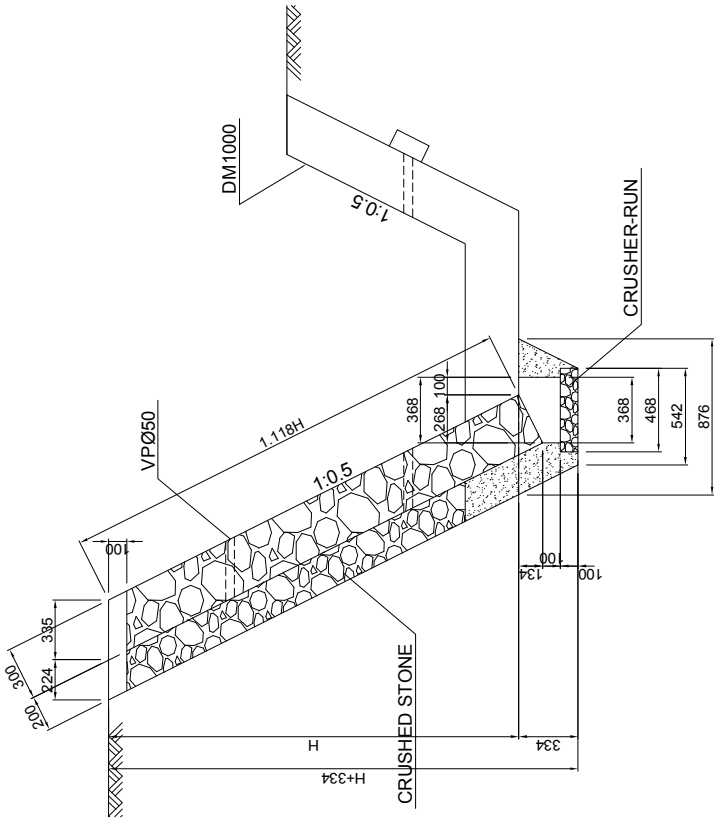


COVER 420x 840

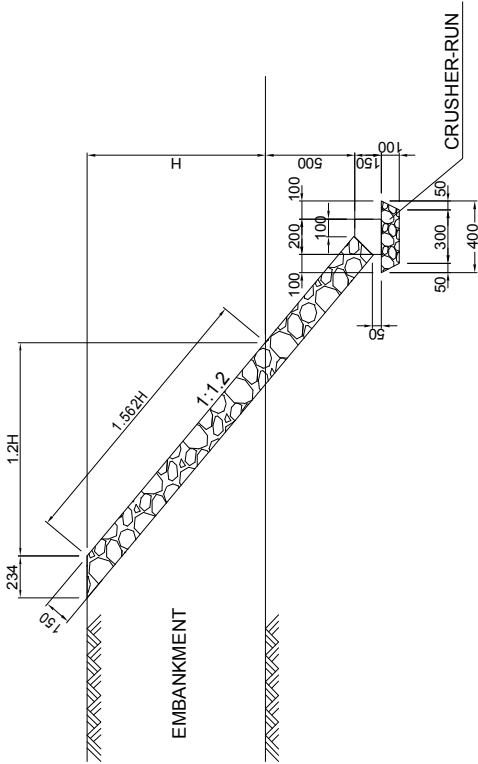
MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: DRAINAGE STRUCTURE (5) CHITCH BASIN	Drawing No.	DS-05
				SCALE	1/30
				DATE	Jan. 2011

SLOPE PROTECTION

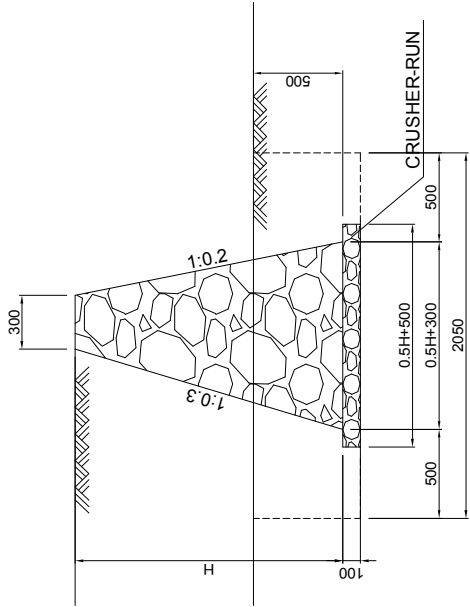
SM300A



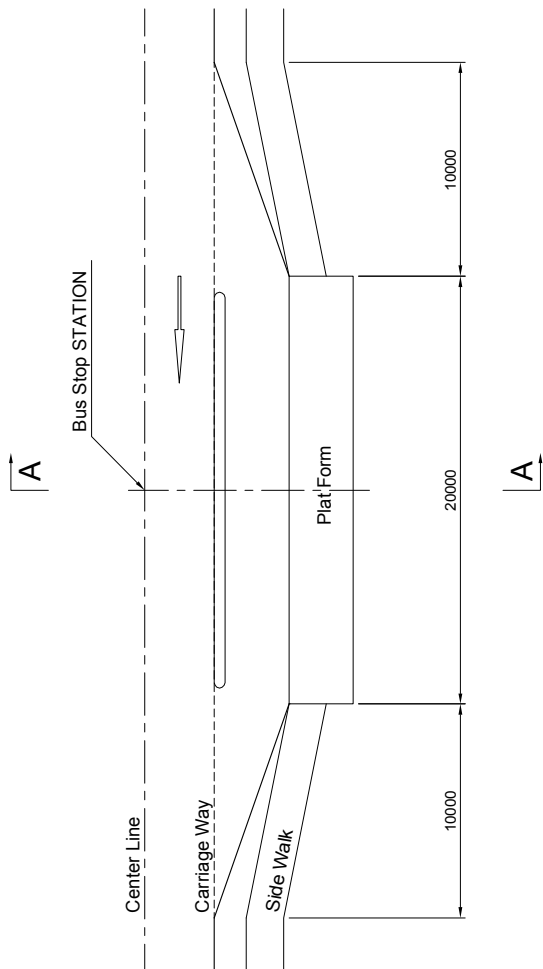
SM200



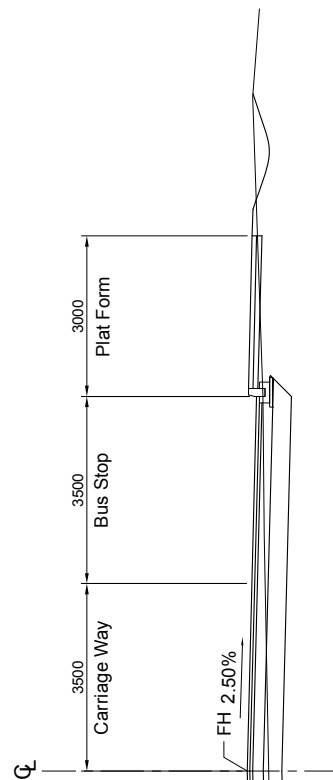
WM(H)



MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: SLOPE PROTECTION	Drawing No.	SP-01
				SCALE	1/30
				DATE	Jan. 2011



PLAN S=1:250

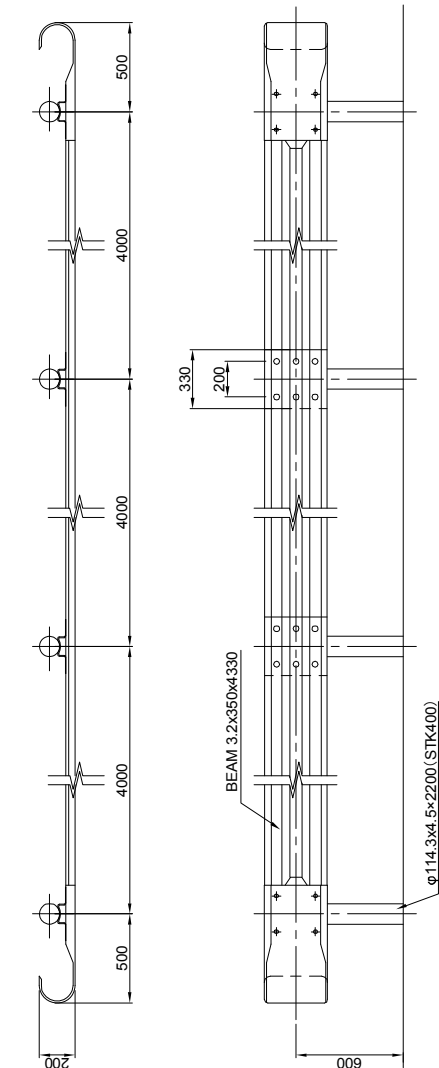


A-A SECTION S=1:100

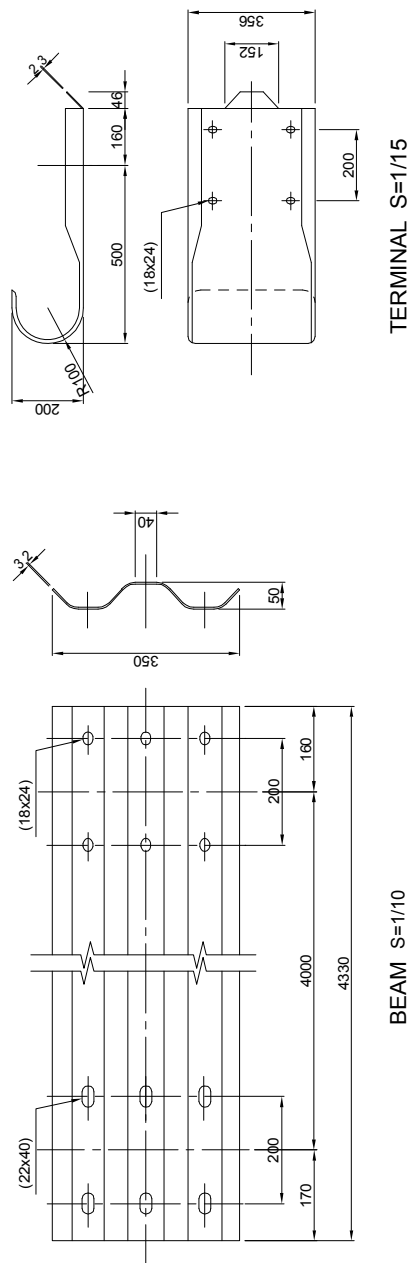
SCHEDULED LIST OF BUS STOP

NAME OF ROAD	STA.	L/R
Mini Bypass Link	0+075.00	R
	0+090.00	L
	0+420.00	L
Inner Ring Road	0+510.00	R
	1+250.00	L/R
	2+270.00	L
	2+370.00	R
	4+400.00	R
Inner Ring Road Extension	4+500.00	L
	5+370.00	R
	5+420.00	L
	6+030.00	L
	6+150.00	R
	6+720.00	L
	6+770.00	R
	7+650.00	L
	7+760.00	R
	8+630.00	L
	8+740.00	R

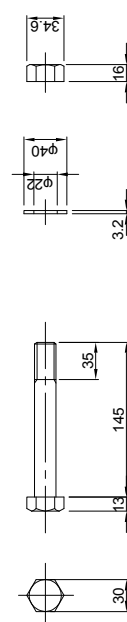
MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE: BUS STOP	Drawing No.	BS-01
				SCALE	AS SHOWN
				DATE	Jan. 2011



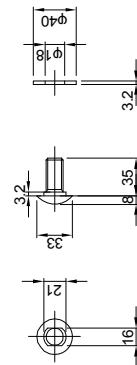
PLAN AND ELEVATION S=1/30



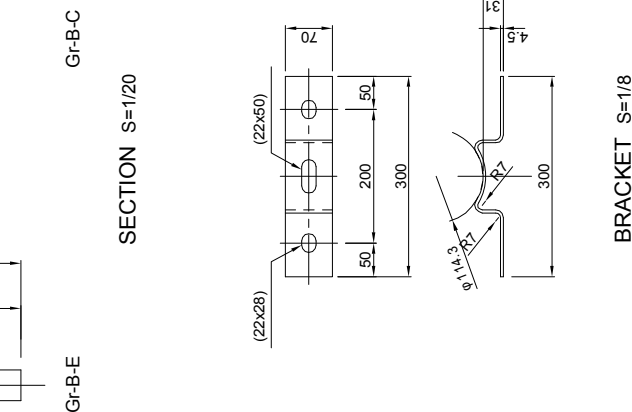
BEAM S=1/10



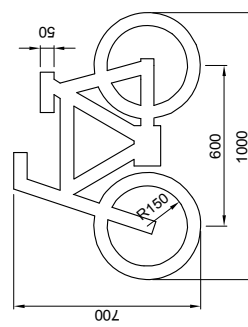
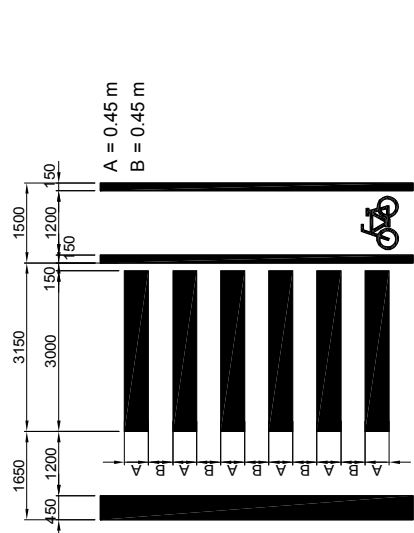
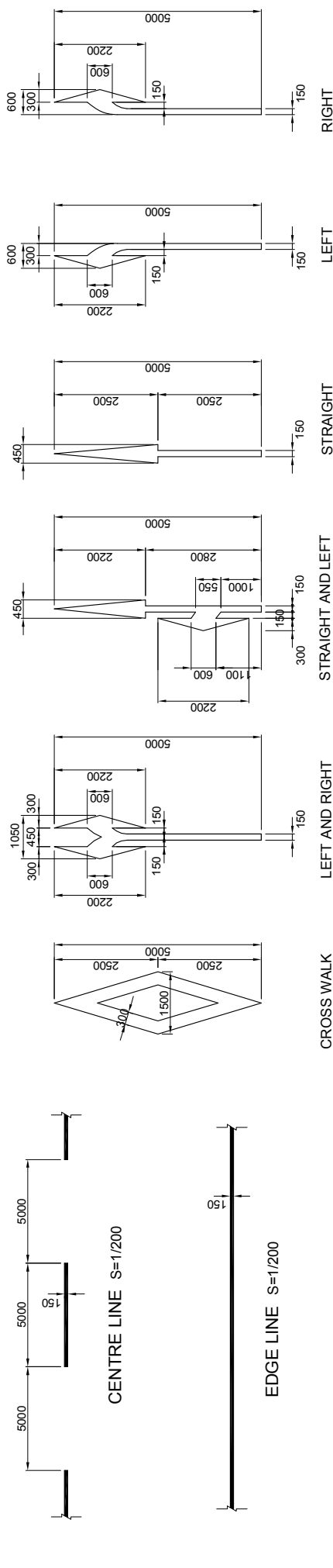
BOLT FOR BRACKET S=1/5
M20×145



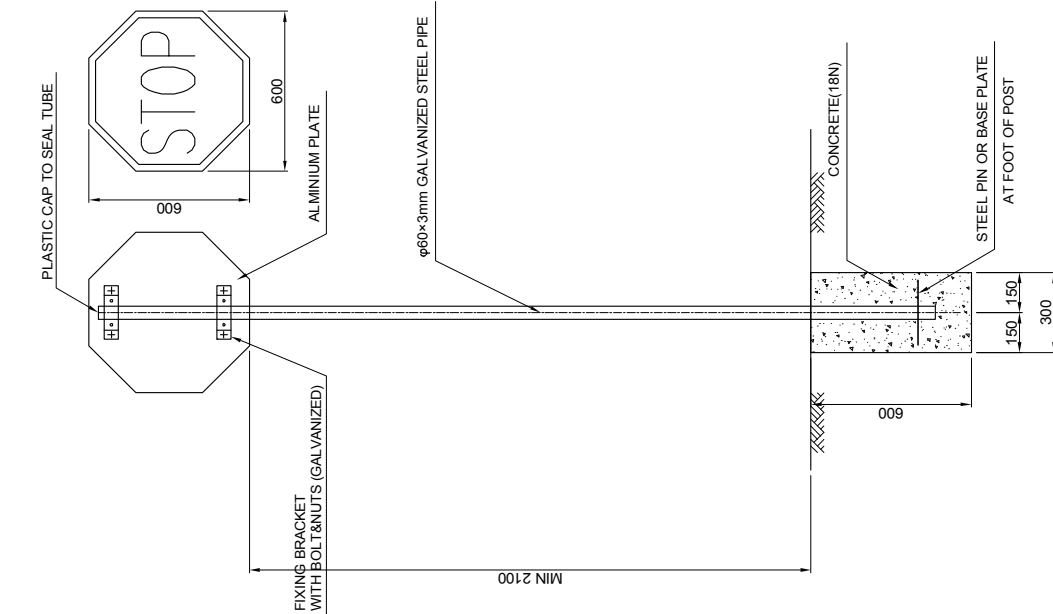
BOLT FOR BRACKET S=1/5
M16x35

BRACKET $S=1/8$

MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE:	Drawing No.	GR-01
			GUARDRAIL	SCALE	AS SHOWN
				DATE	Jan. 2011



MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE:	
			Drawing No.	RM-01
			SCALE	AS SHOWN
			DATE	Jan. 2011

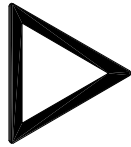


DETAIL OF ROAD SIGN S=1/20

Note: Regarding the details, refer to "MANUAL FOR TRAFFIC SIGNS IN KENYA".



R1. STOP



R2. GIVE WAY



M1. TURN LEFT



M4. STRAIGHT &
TURN RIGHT



M7. CYCLE TRACK



M8. SIDE WALK



P22. U-TURN



P25A. SPEED LIMIT
(40km)



P25B. SPEED LIMIT
(60km)



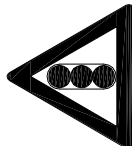
W1 SHARP
LEFT-HAND BEND



W2 SHARP
RIGHT-HAND BEND



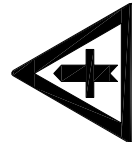
W17. CROSSWALK



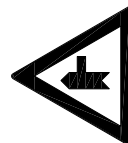
W23. JUNCTION
(TRAFFIC LIGHT SIGNALS)



W27. JUNCTION
(X)



W28A JUNCTION
(X)



W28B JUNCTION
(T)



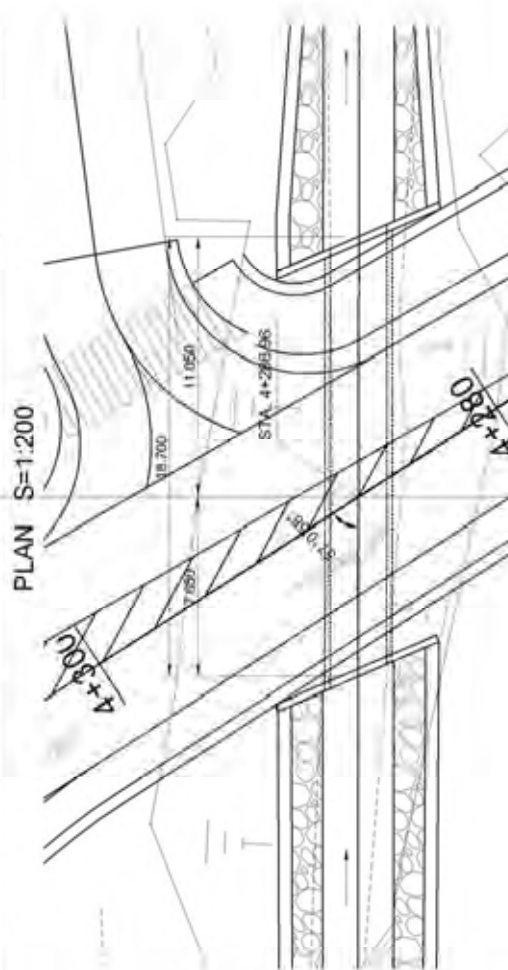
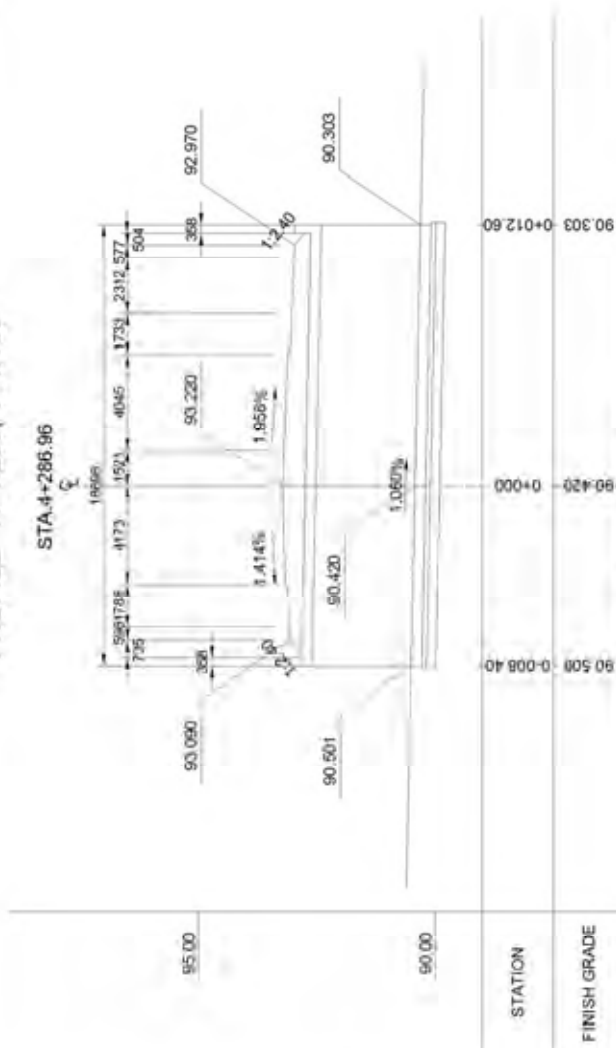
I41 BUS STOP
(size : 400×300)



I48. FILLING STATION
(size : 500×600)

MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE:	
			Drawing No.	RS-01
			SCALE	NON SCALE
			DATE	Jan. 2011

TYPICAL CROSS SECTION S=1:50



MINISTRY OF LOCAL GOVERNMENT AND HOUSING LUSAKA CITY COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	THE PREPARATORY SURVEY ON THE PROJECT FOR THE IMPROVEMENT OF THE LIVING ENVIRONMENT IN THE SOUTHERN AREA OF LUSAKA IN THE REPUBLIC OF ZAMBIA	TITLE:	C-Bx 2.40x2.10 INNER RING ROAD (STA 4+266.95)	Drawing No.	BC-01
					SCALE	AS SHOWN
					DATE	Jan. 2011