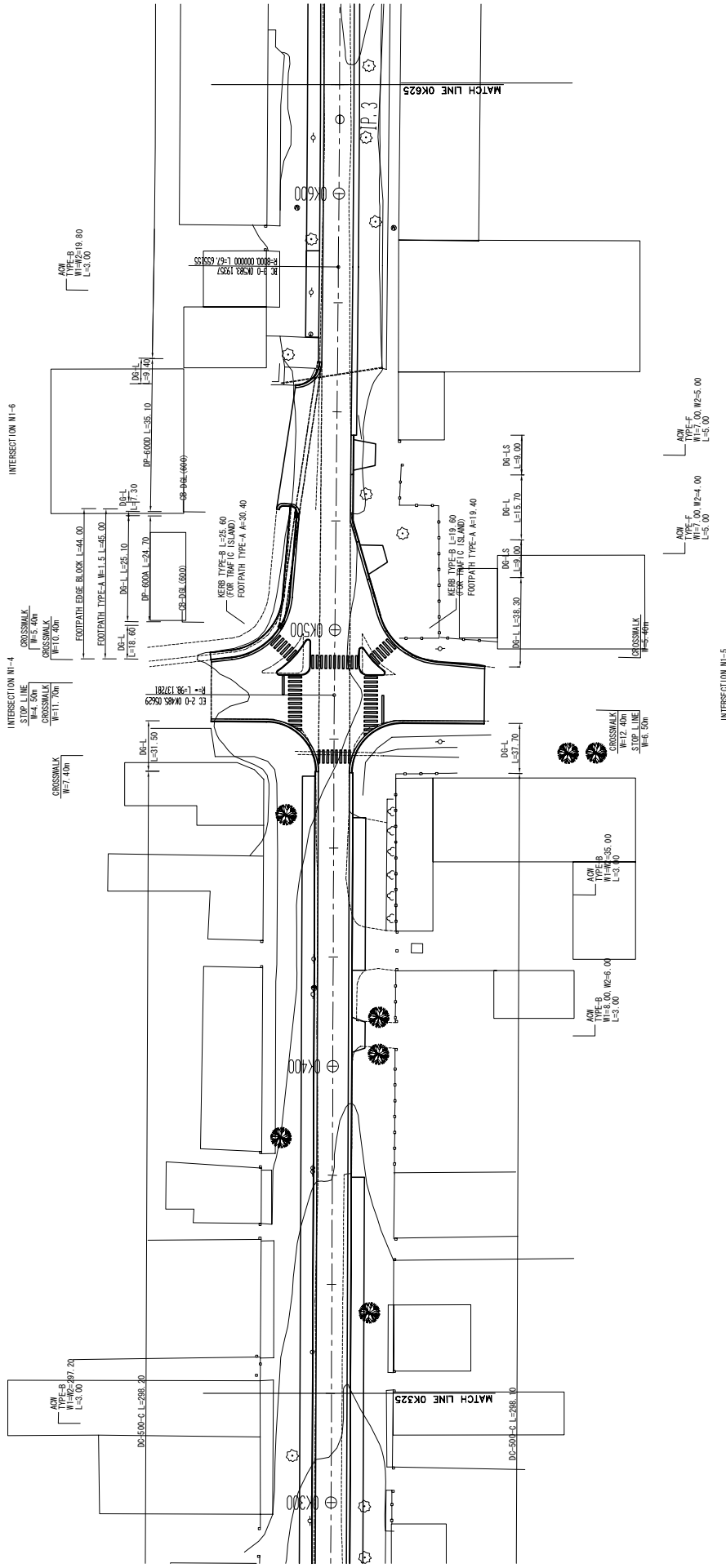
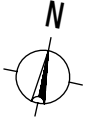
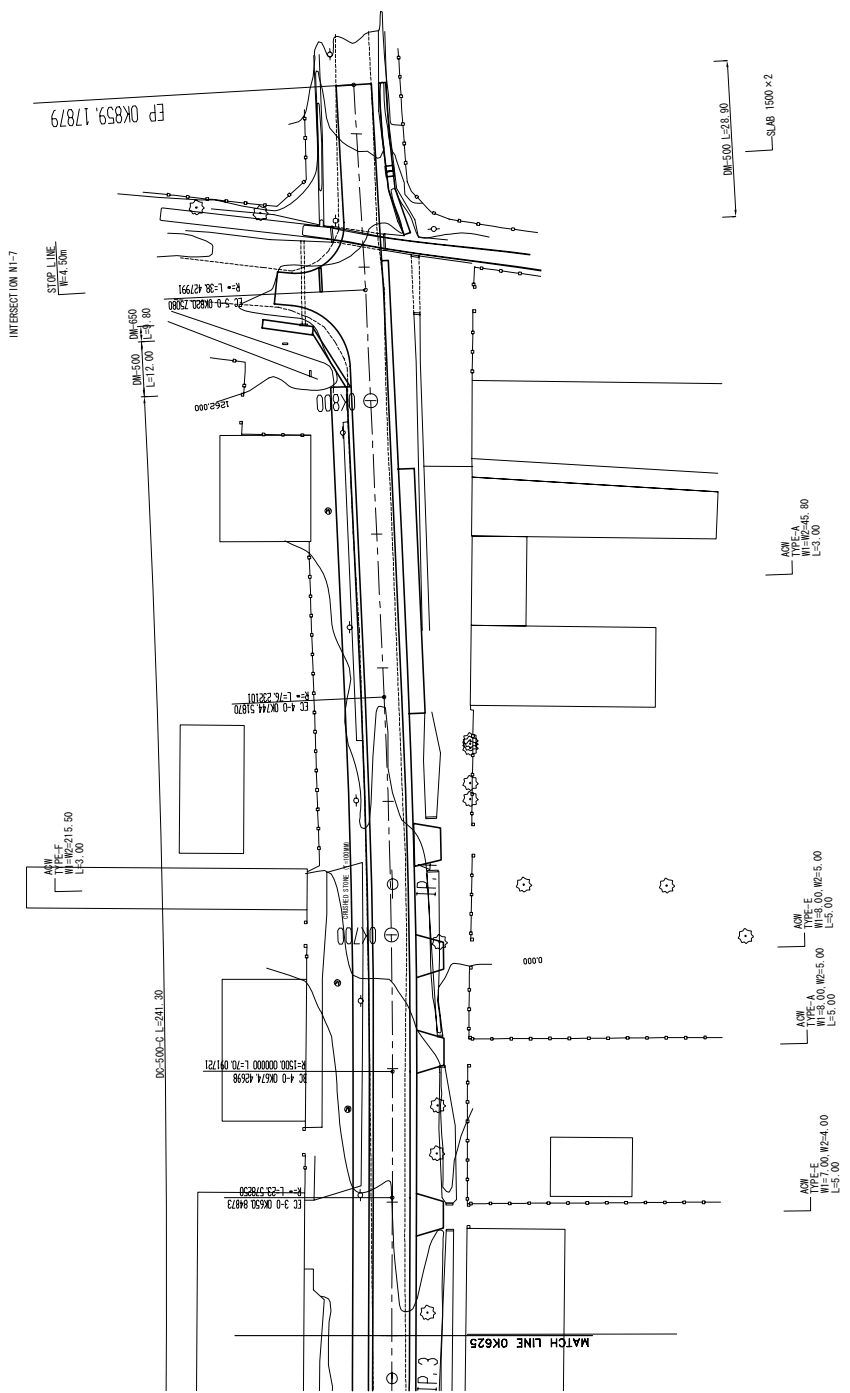
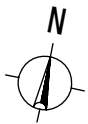


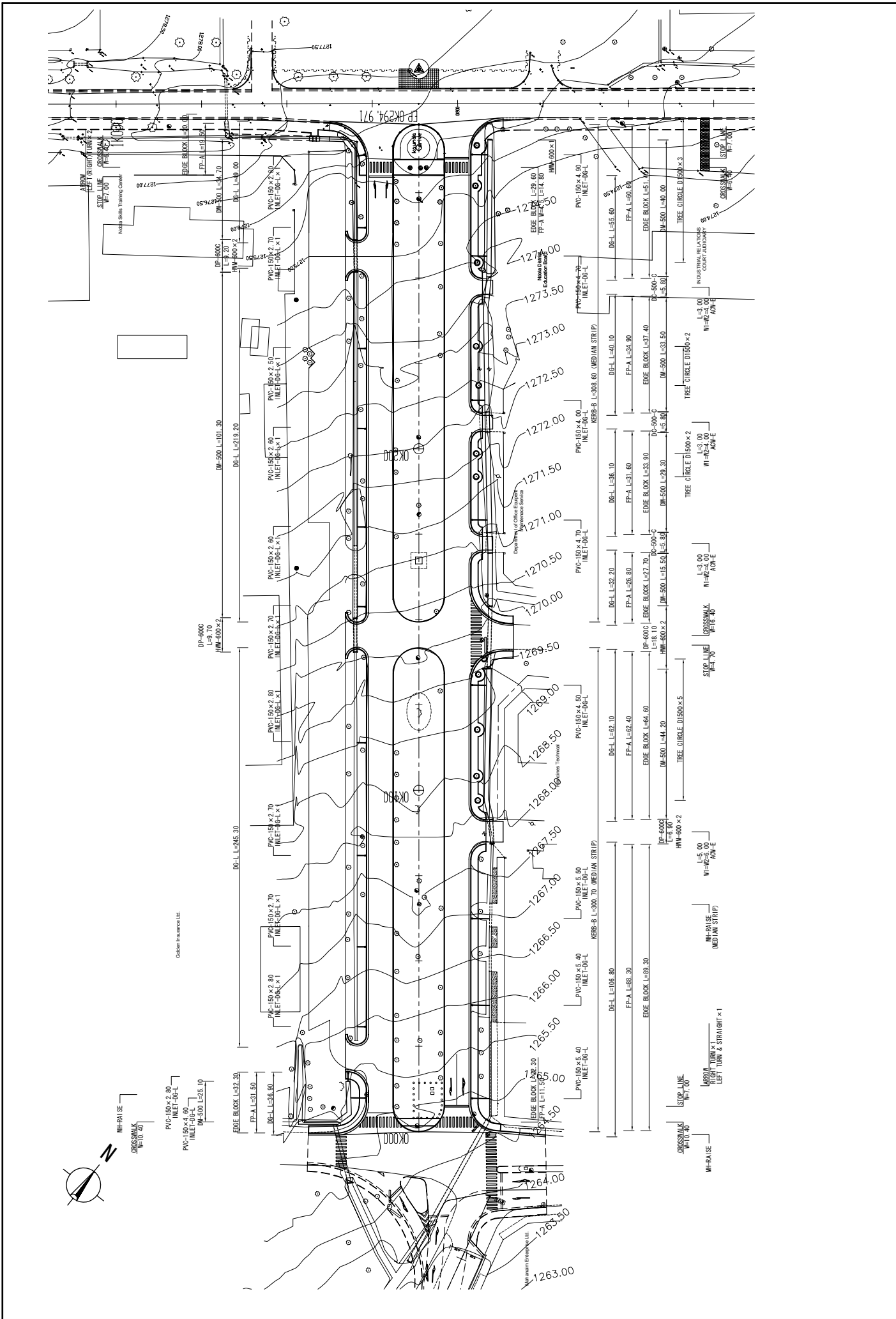
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDOLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		PLAN	SCALE	APPROVED DATE	PREPARED CHECKED SUBMITTED	DATE	SHEET NO
		NI: VITANDA STREET (1/3)							
PL-1									



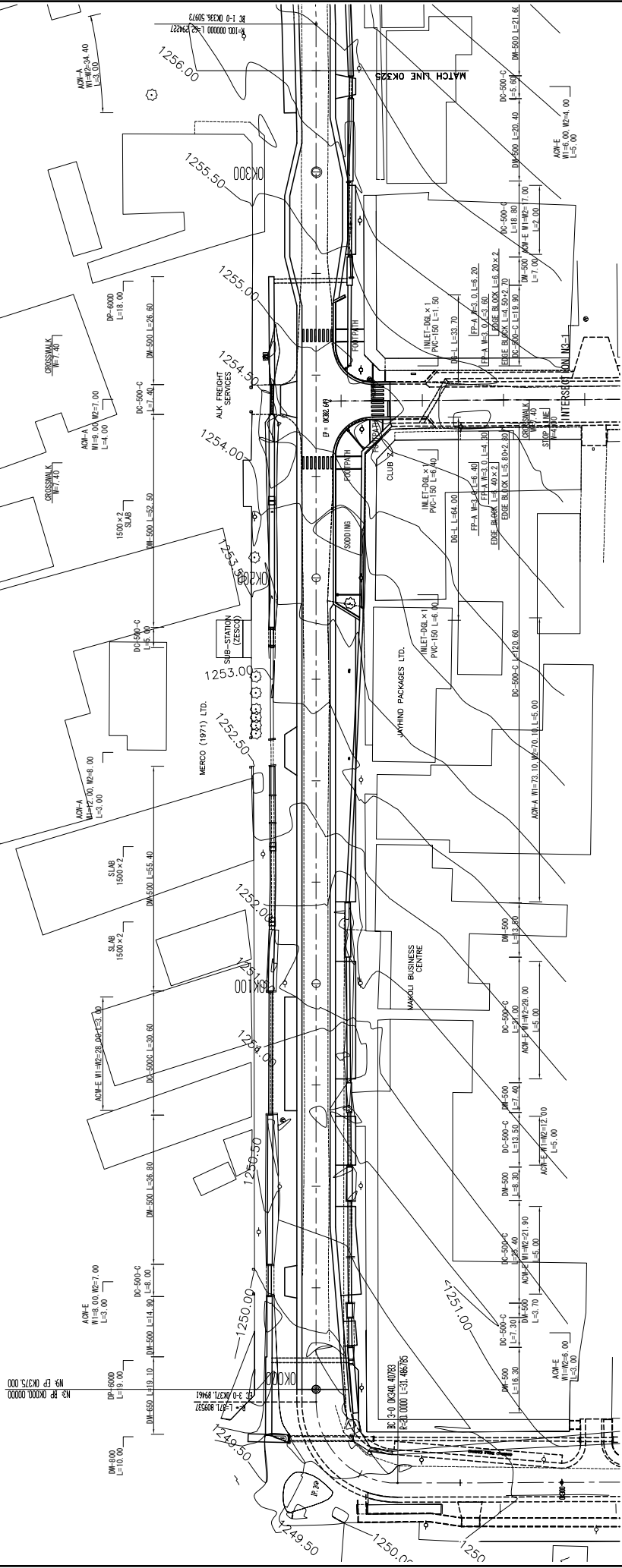
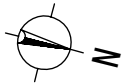
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED DATE	PREPARED CHECKED SUBMITTED	DATE	SHEET NO PL-2
			NI: VITANDA STREET(2/3)				



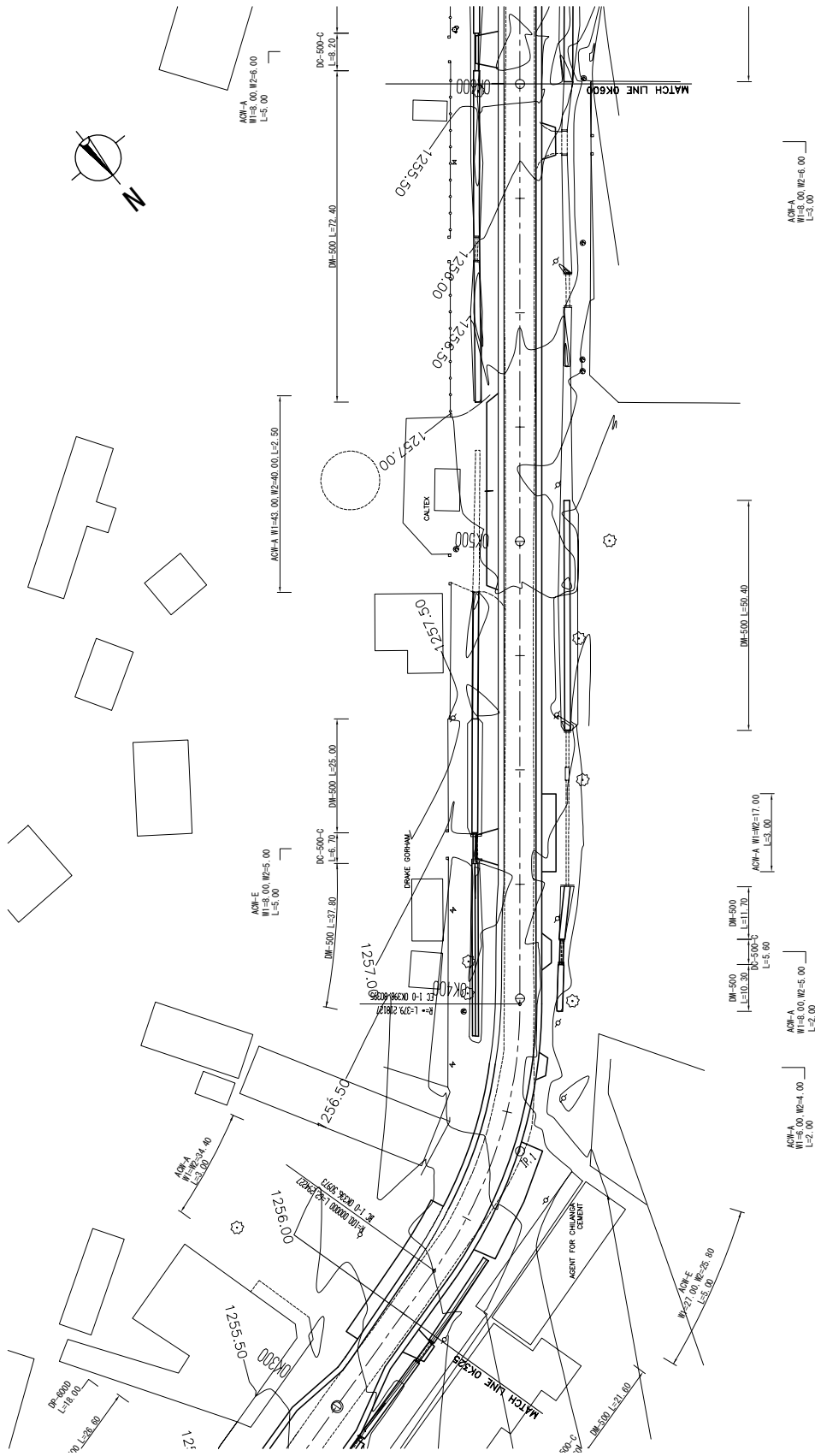
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN		SCALE	APPROVED DATE	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED SUBMITTED	DATE	SHEET NO PL-3
			N1: VITANDA STREET(3/3)		S=1:500					



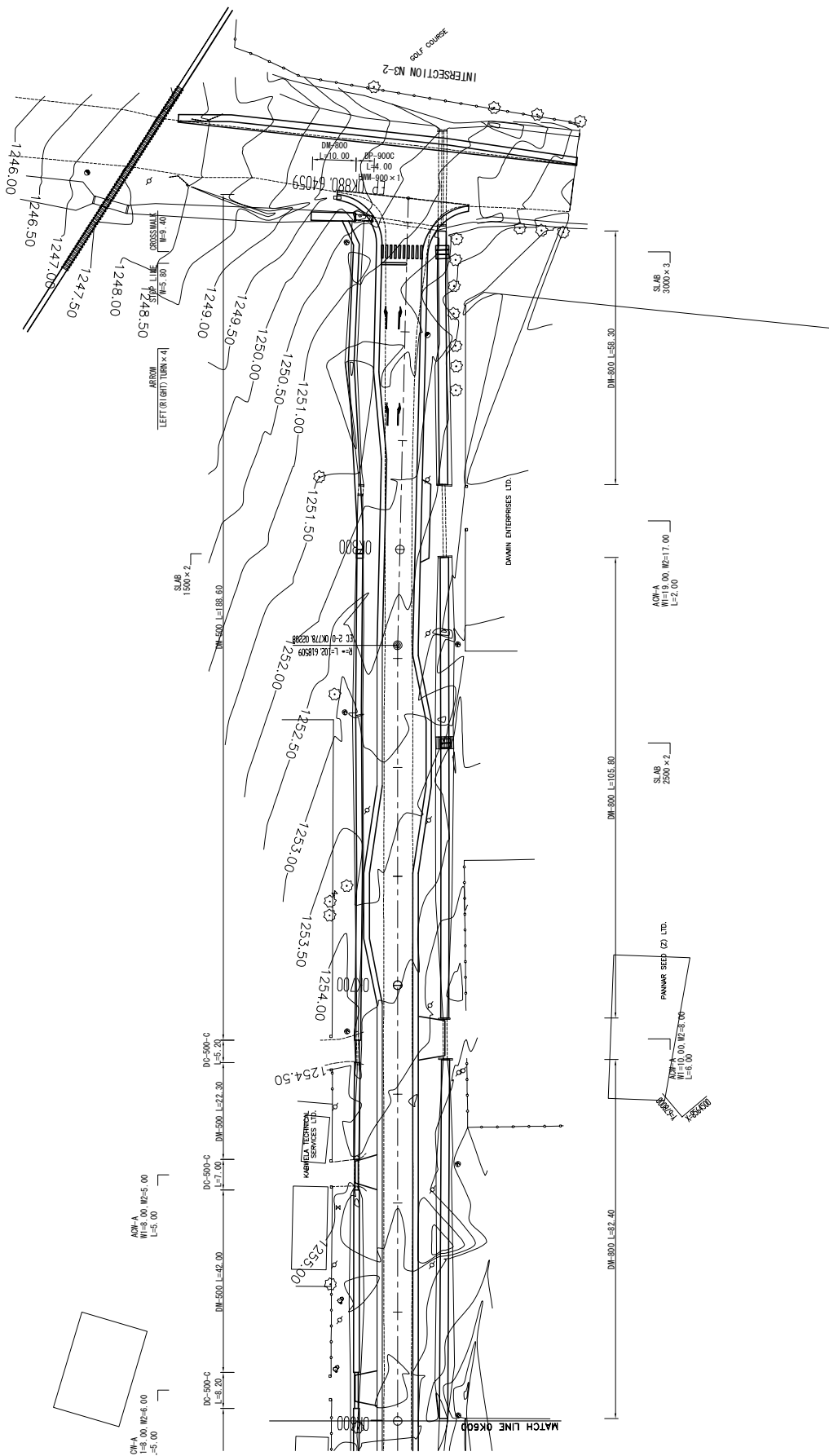
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN N2: KAUNDA DRIVE	SCALE	APPROVED	KATAMBA & ENGINEERS INTERNATIONAL	PREPARED CHECKED	DATE	SHEET NO
			S=1:500	DATE		SUBMITTED		PL-4



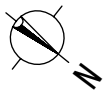
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		PLAN N3: MAKOLI AVENUE (1/3)	SCALE S=1:500	APPROVED DATE	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED SUBMITTED	DATE	SHEET NO PL-5
	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF MDDLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA								



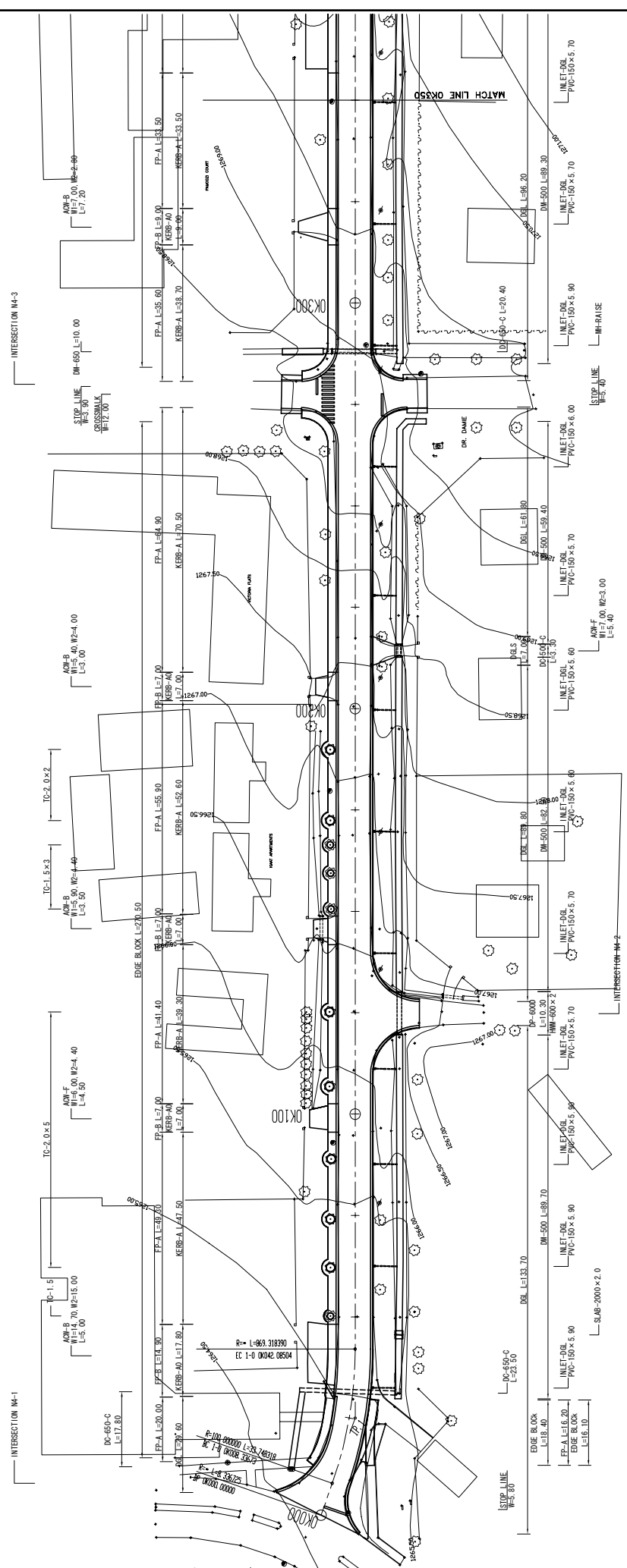
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED DATE	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED SUBMITTED	DATE	SHEET NO PL-6



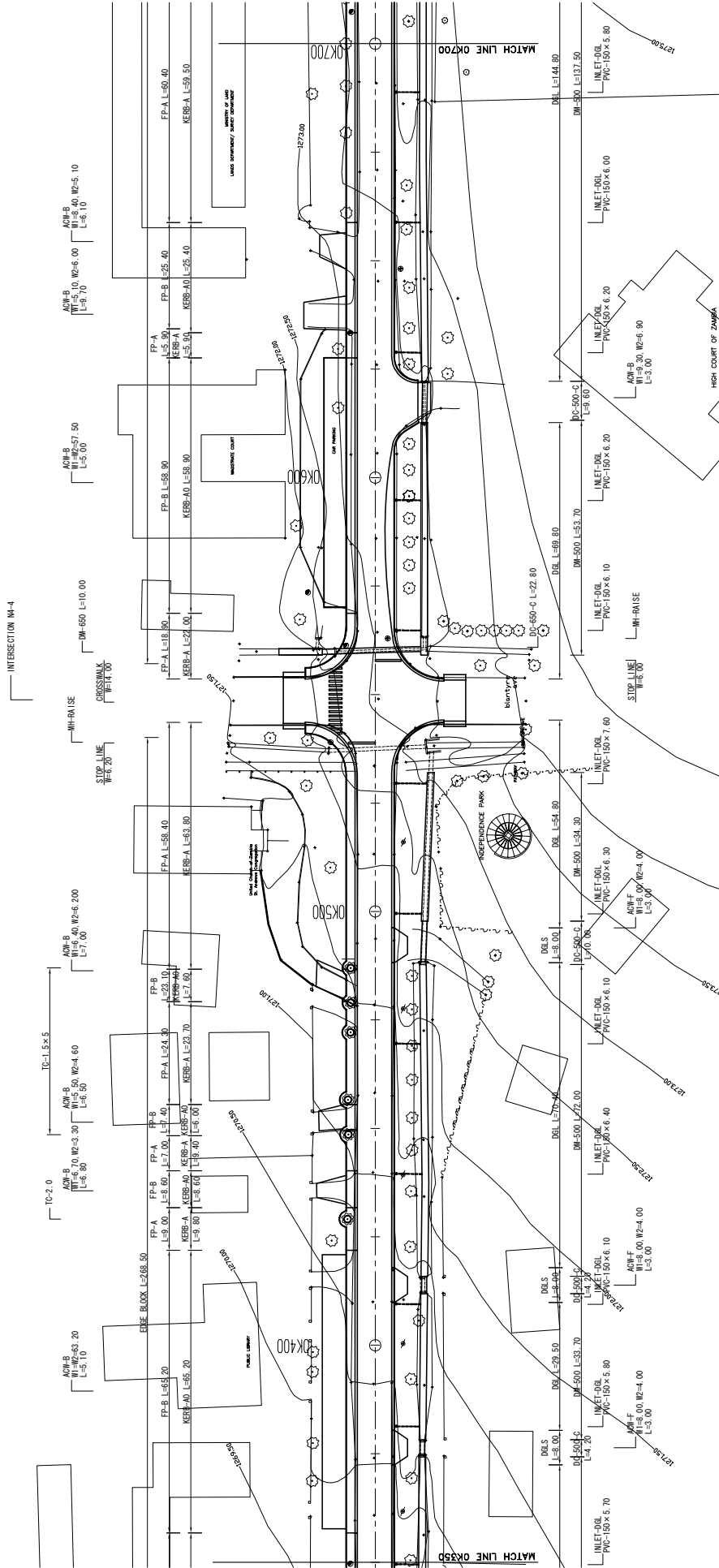
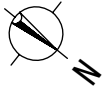
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED	SHEET NO
						DATE	PL-7
BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA		N3: MAKOLI AVENUE (3/3)	S=1500	DATE	SUBMITTED		



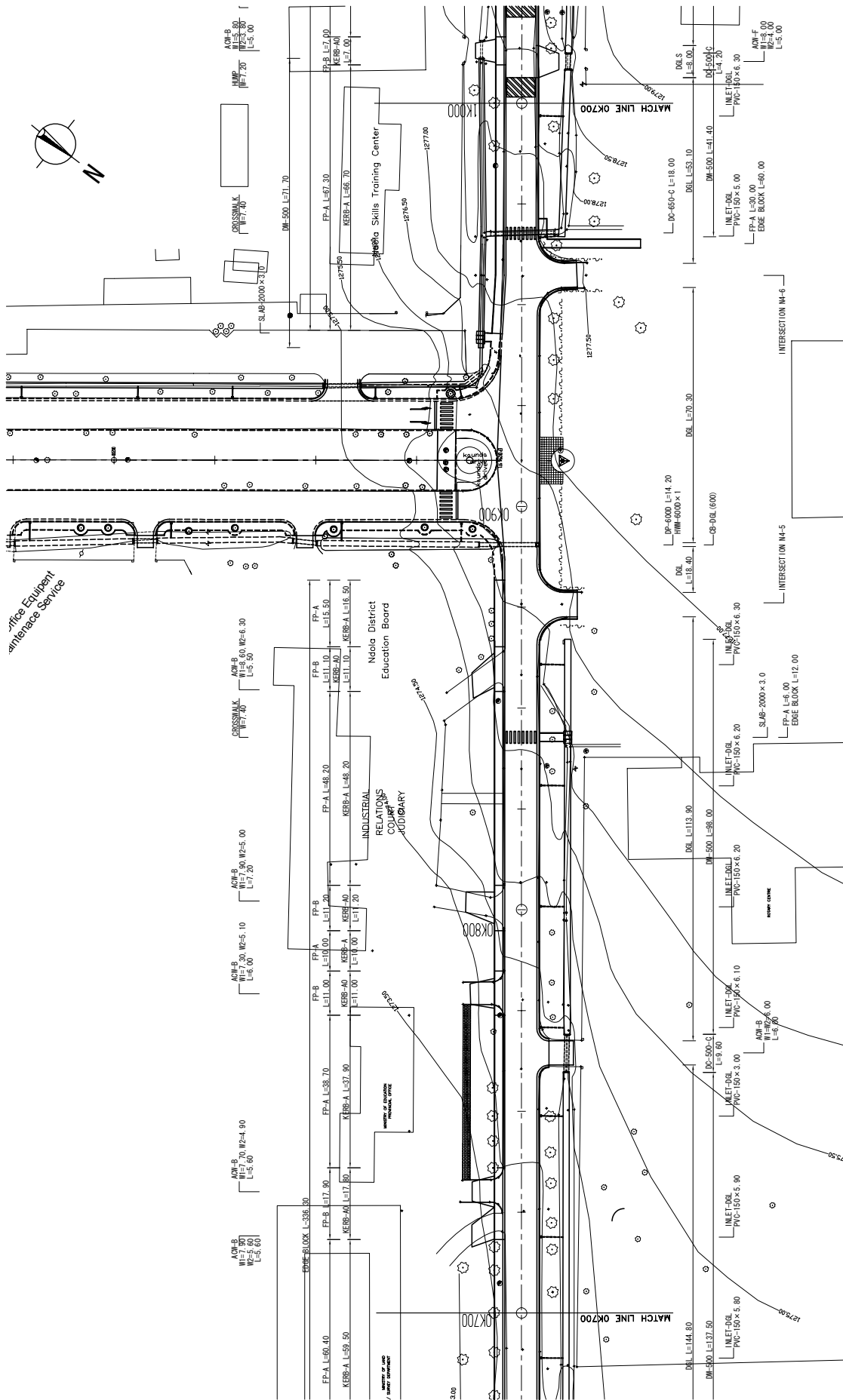
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X=678100



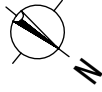
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED SUBMITTED	DATE	SHEET NO
BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA		N4: INDEPENDENCE WAY (L/S)		S=1500				



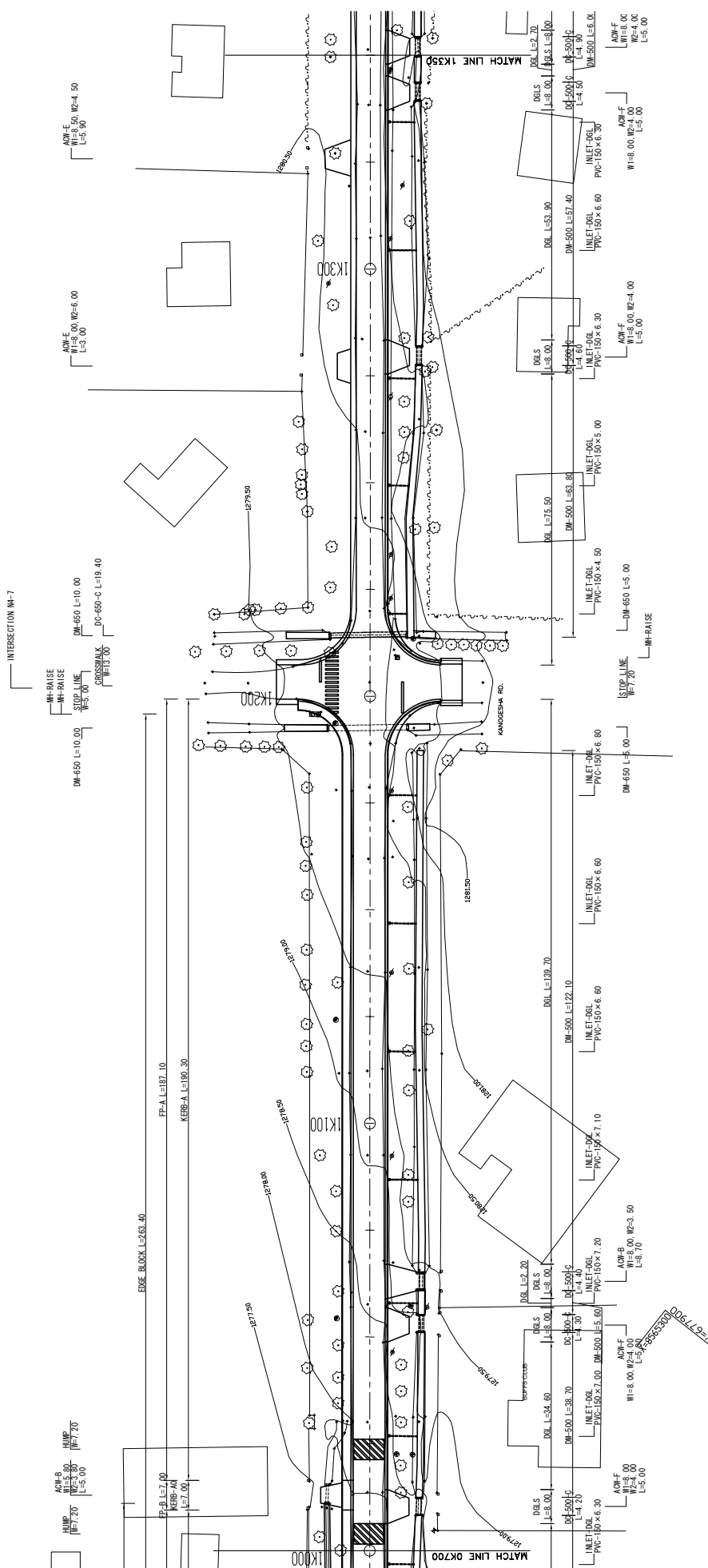
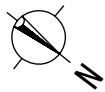
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN		SCALE S=1:500	APPROVED DATE	PREPARED CHECKED SUBMITTED	KATAHIRA & ENGINEERS INTERNATIONAL	DATE	SHEET NO PL-9
			N4- INDEPENDENCE WAY(2/5)							



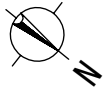
Office Equipment
Maintenance Service



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NOLLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED DATE	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED	DATE	SHEET NO PL-10
							SUBMITTED		



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED DATE	PREPARED CHECKED SUBMITTED	DATE	SHEET NO
		N4: INDEPENDENCE WAY(4/5)	S=1:500				
BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NODLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA			PL-11				

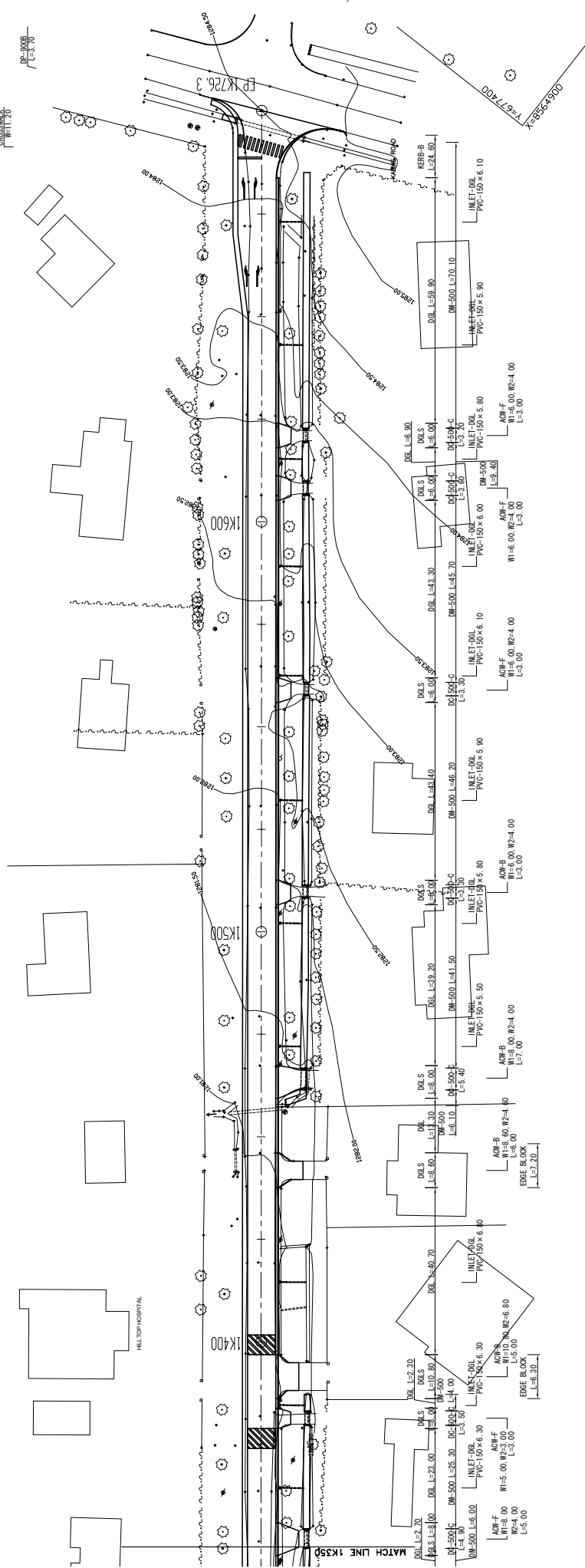


INTERSECTION N4-6

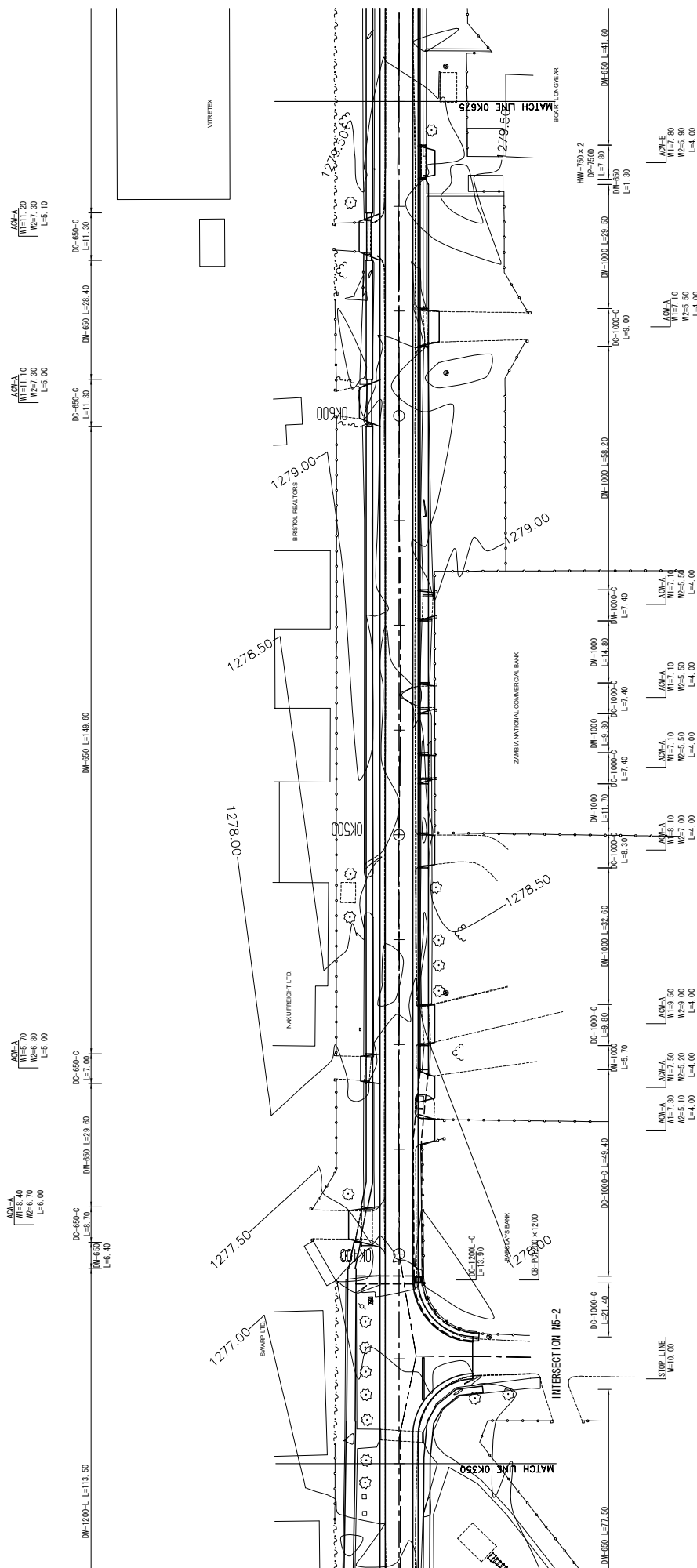
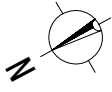
RAMP
R#7.20

RAMP
R#7.20

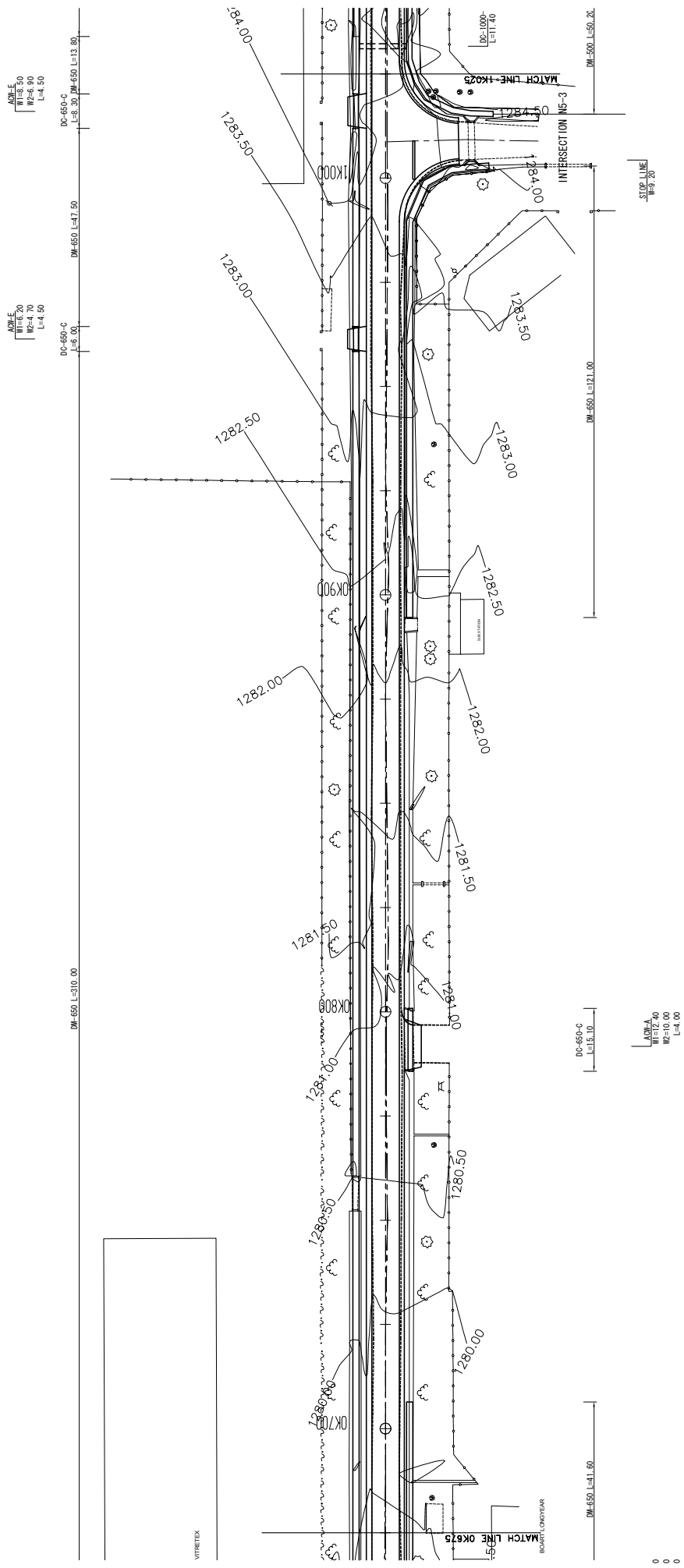
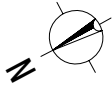
ASPH
LEFT (RIGHT) TURN 24
CROSSWALK
R#17.20



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED	DATE	SHEET NO
				N4: INDEPENDENCE WAY(S)/S			S=1:500		



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED SUBMITTED	DATE	SHEET NO PL-14
			NS-5 ZAMBIA ROAD (2/7)					



DM-550 L=310.00
DC-650-C L=6.00
DM-650 L=47.50
DM-550 L=50.20

DM-550 L=310.00
DC-650-C L=6.00
DM-650 L=47.50
DM-550 L=50.20

DM-550 L=310.00
DC-650-C L=6.00
DM-650 L=47.50
DM-550 L=50.20

DM-550 L=310.00
DC-650-C L=6.00
DM-650 L=47.50
DM-550 L=50.20

DM-550 L=310.00
DC-650-C L=6.00
DM-650 L=47.50
DM-550 L=50.20

DM-550 L=310.00
DC-650-C L=6.00
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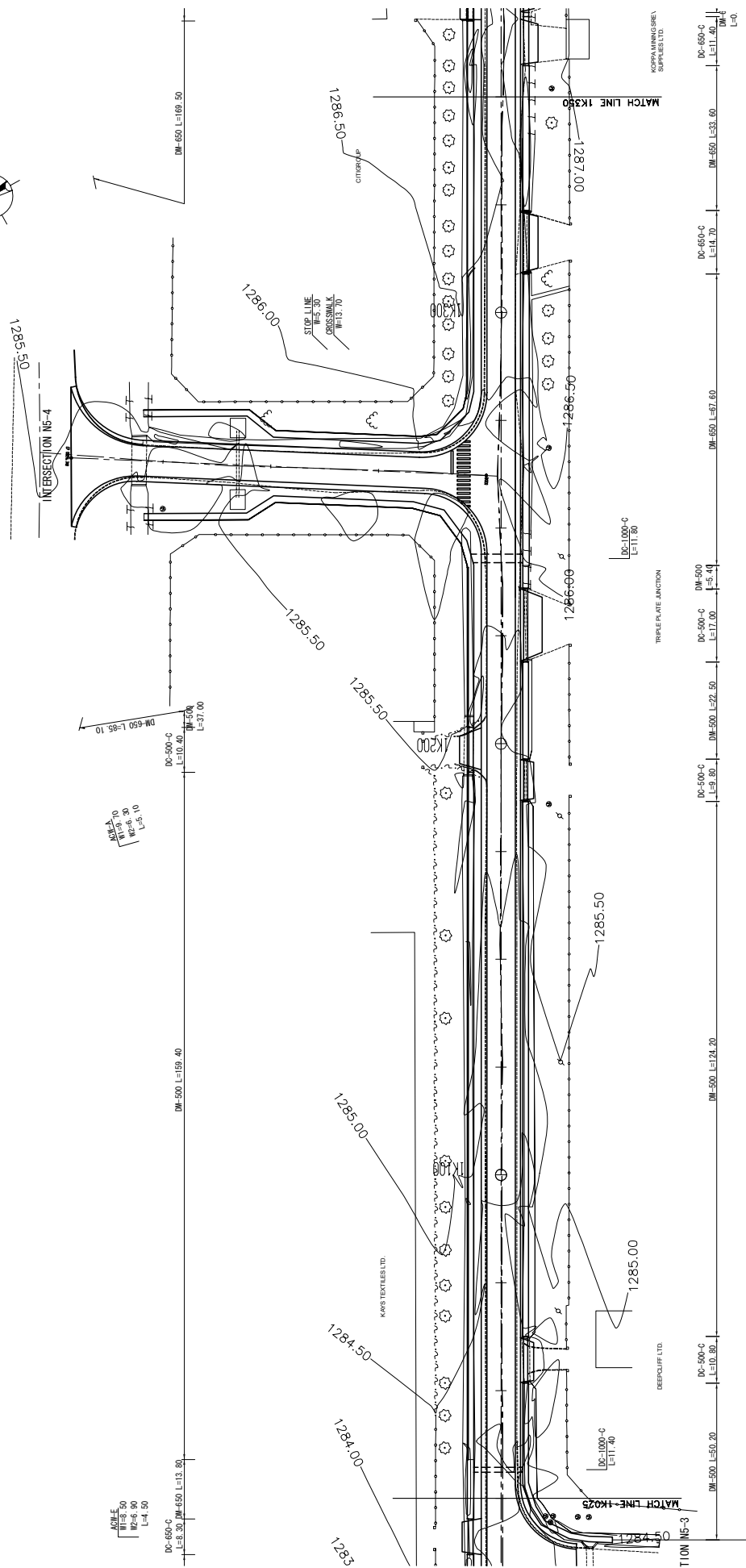
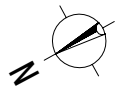
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DC-650-C L=6.00
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DM-550 L=310.00
DC-650-C L=6.00
DM-650 L=47.50
DM-550 L=50.20

DM-550 L=310.00
DC-650-C L=6.00
DM-650 L=47.50
DM-550 L=50.20

DM-550 L=310.00
DC-650-C L=6.00
DM-650 L=47.50
DM-550 L=50.20

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	PREPARED CHECKED	DATE	SHEET NO
			NS: ZAMBIA ROAD (3/7)				



ADW-E
W1=5.50
W2=4.90
L=1.50

DC-650-C
L=8.30 DM-650 L=13.80

DM-500 L=159.40

DC-500-C
L=10.40 DM-500
L=37.00

ADW-A
W1=6.10
W2=5.30
L=5.10

DM-650 L=98.10

1284.00

1284.50

1285.00

1285.50

1285.50

1286.00

1286.50

DC-1000-C
L=11.40

DM-500 L=50.20

DC-500-C
L=10.80

DM-500 L=124.20

DC-500-C
L=9.80

DM-500 L=22.50

DC-500-C
L=17.00

DM-500 L=5.44

DM-650 L=67.60

DC-650-C
L=14.70

DM-650 L=33.60

DC-650-C
L=11.40

ADW-A
W1=10.40
W2=8.80
L=3.00

DM-500 L=124.20

ADW-E
W1=9.50
W2=8.50
L=5.00

ADW-A
W1=10.00
W2=12.80
L=5.00

ADW-A
W1=11.10
W2=12.00
L=4.00

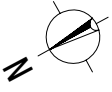
ADW-A
W1=10.50
W2=7.90
L=6.00

DEEPOJIF LTD.

TRIPLE PLATE JUNCTION

KOPPARANNOBIRA SUPPLIES LTD.

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED DATE	KATAMBA & ENGINEERS INTERNATIONAL	PREPARED CHECKED	DATE	SHEET NO
						SUBMITTED		
BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA		NS: ZAMBIA ROAD (4/7)		S=1:500				

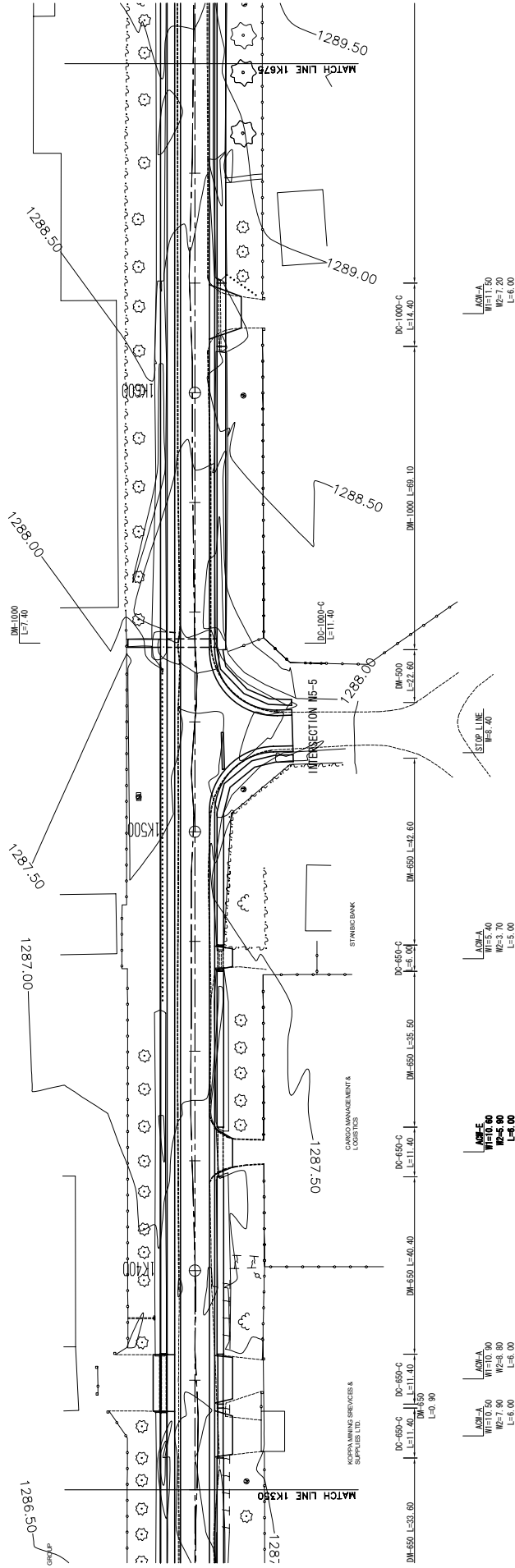


DM-650 L=337.50

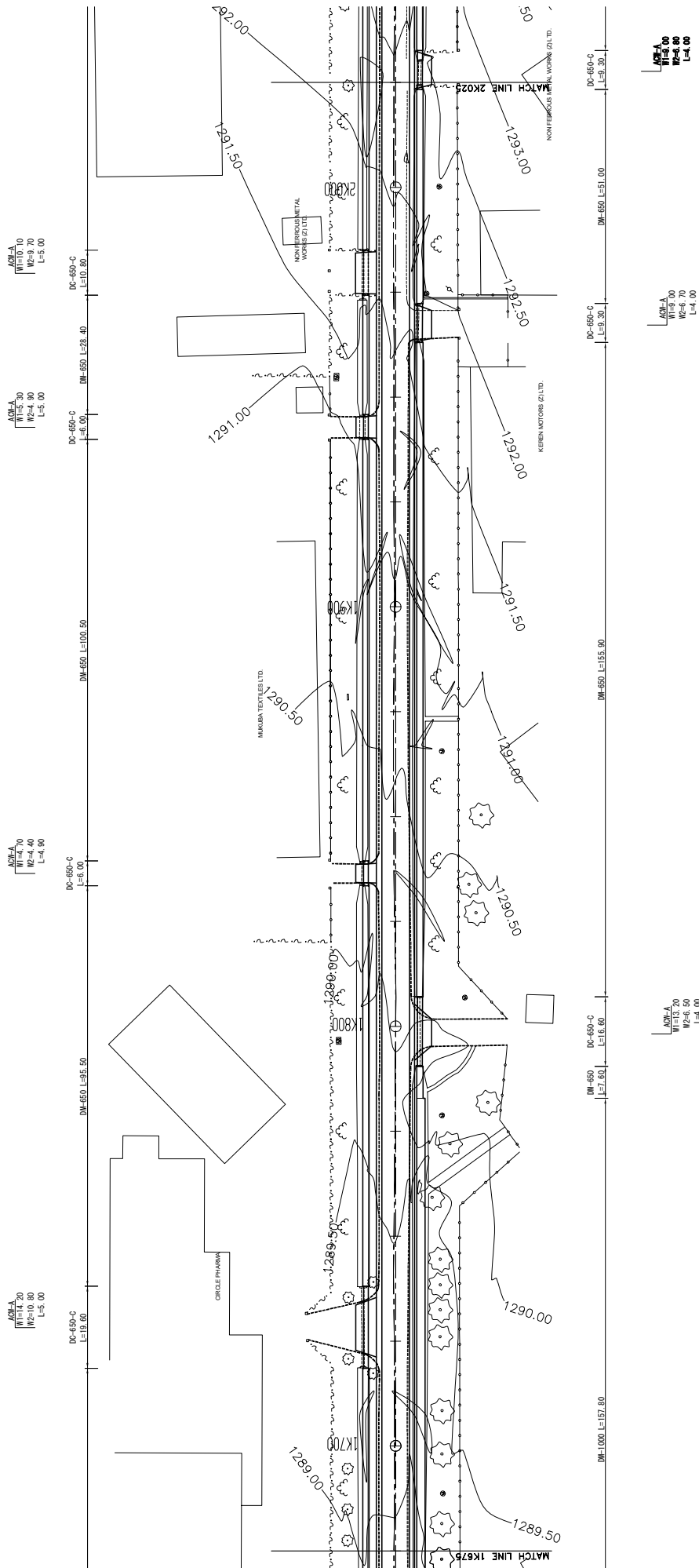
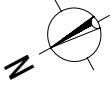
ADW-A
W=12.30
W2=12.90
L=4.90

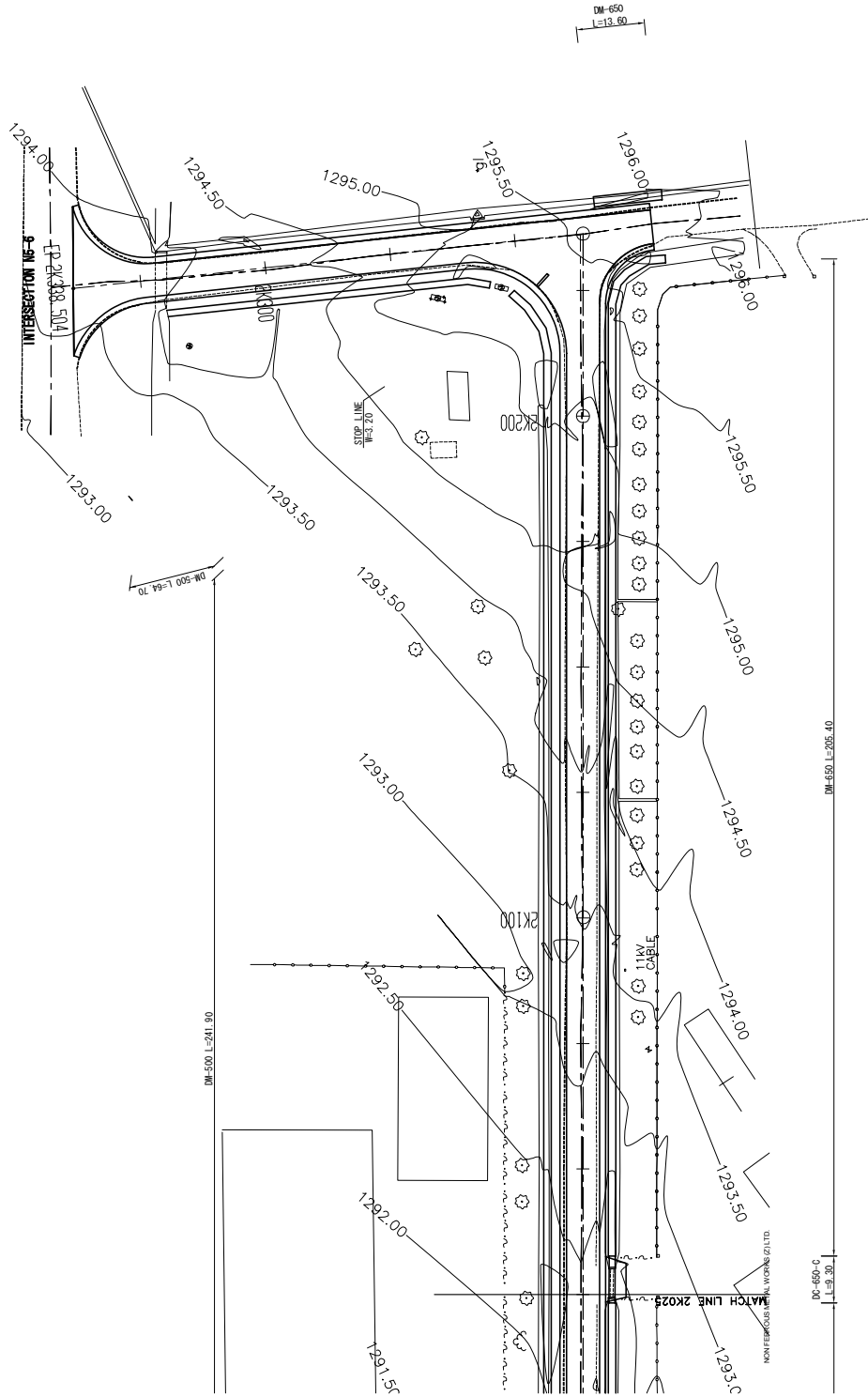
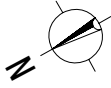
DC-650-C
L=13.50

05-691=L=059.00



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	S=1:500	APPROVED DATE	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED	DATE	SHEET NO
								SUBMITTED		





EXCEL TEXTILES MILLS

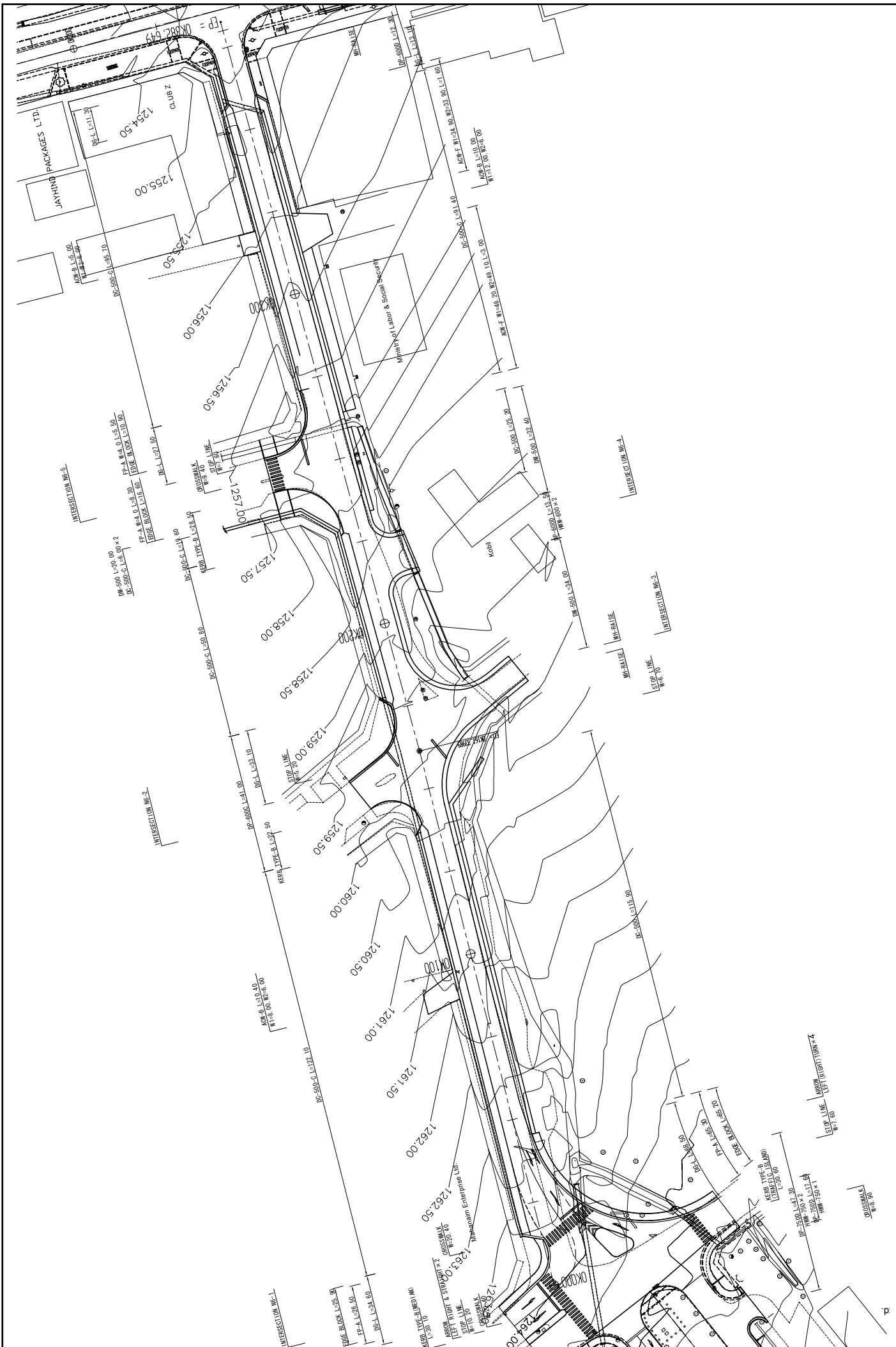
AREA
 11=9.00
 12=6.80
 13=1.00

DC-650-C
 L=9.30

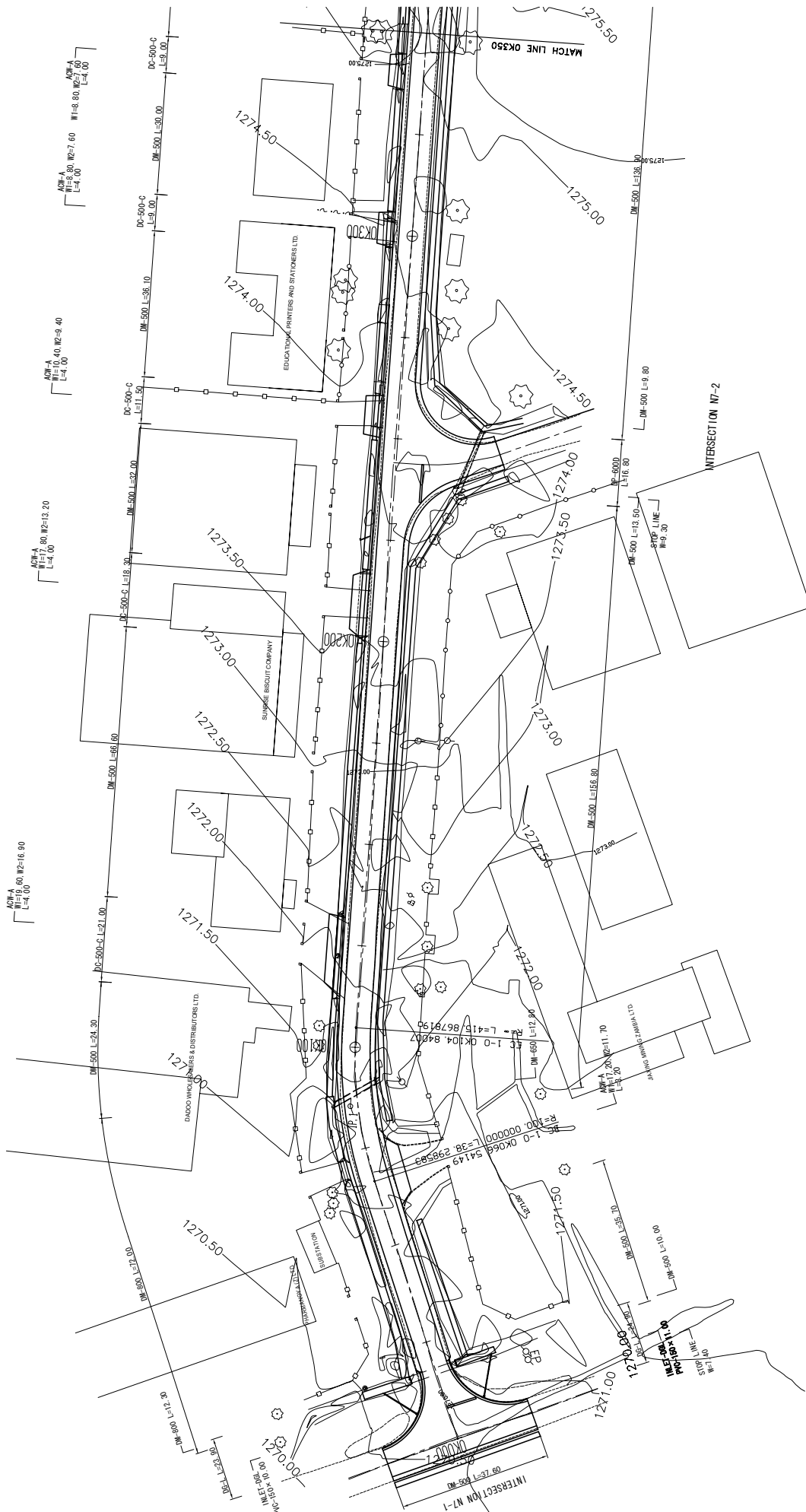
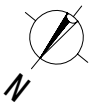
DM-650 L=205.40

NONFERROUS AL WORKS (Z) LTD.

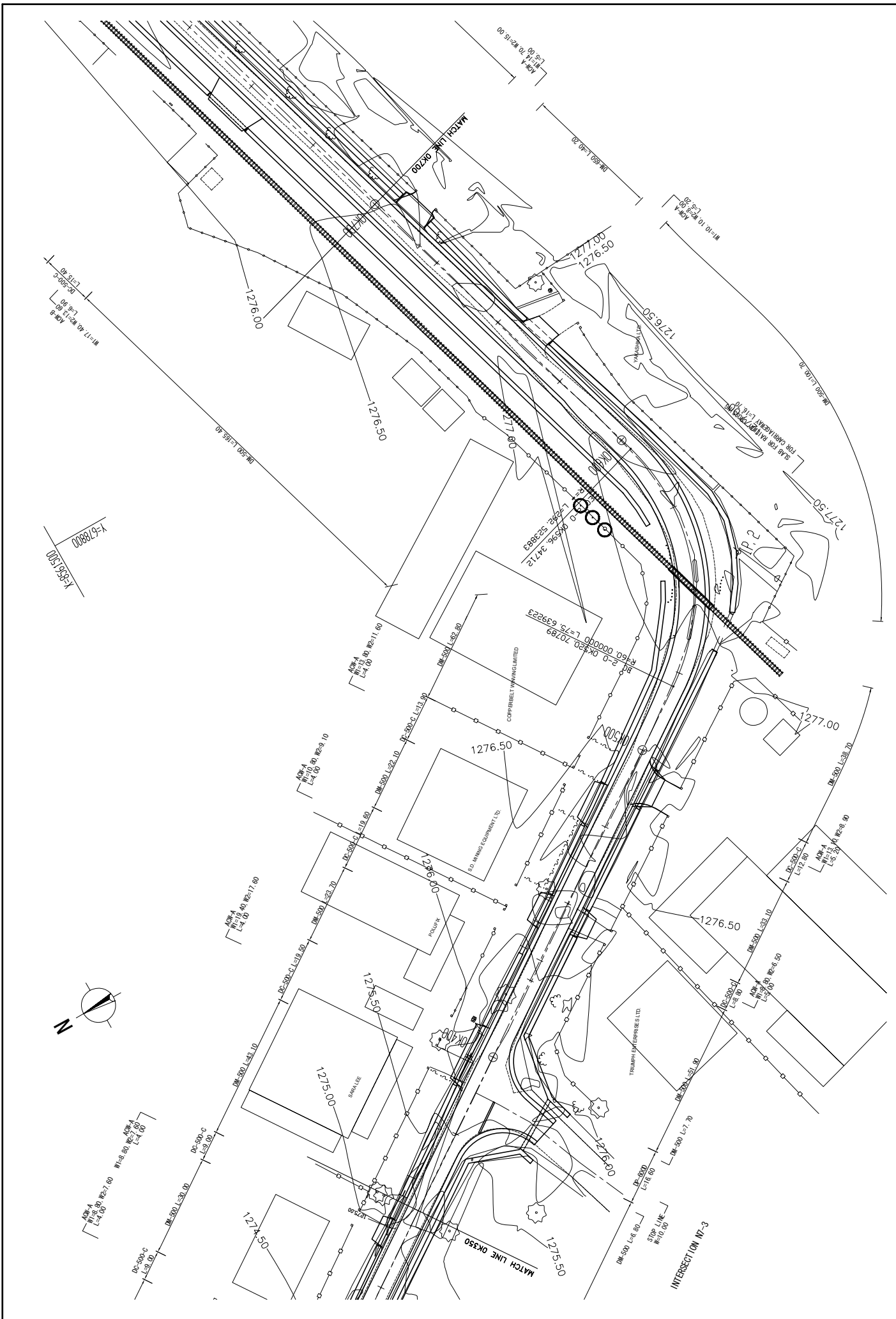
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED DATE	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED SUBMITTED	DATE	SHEET NO PL-19



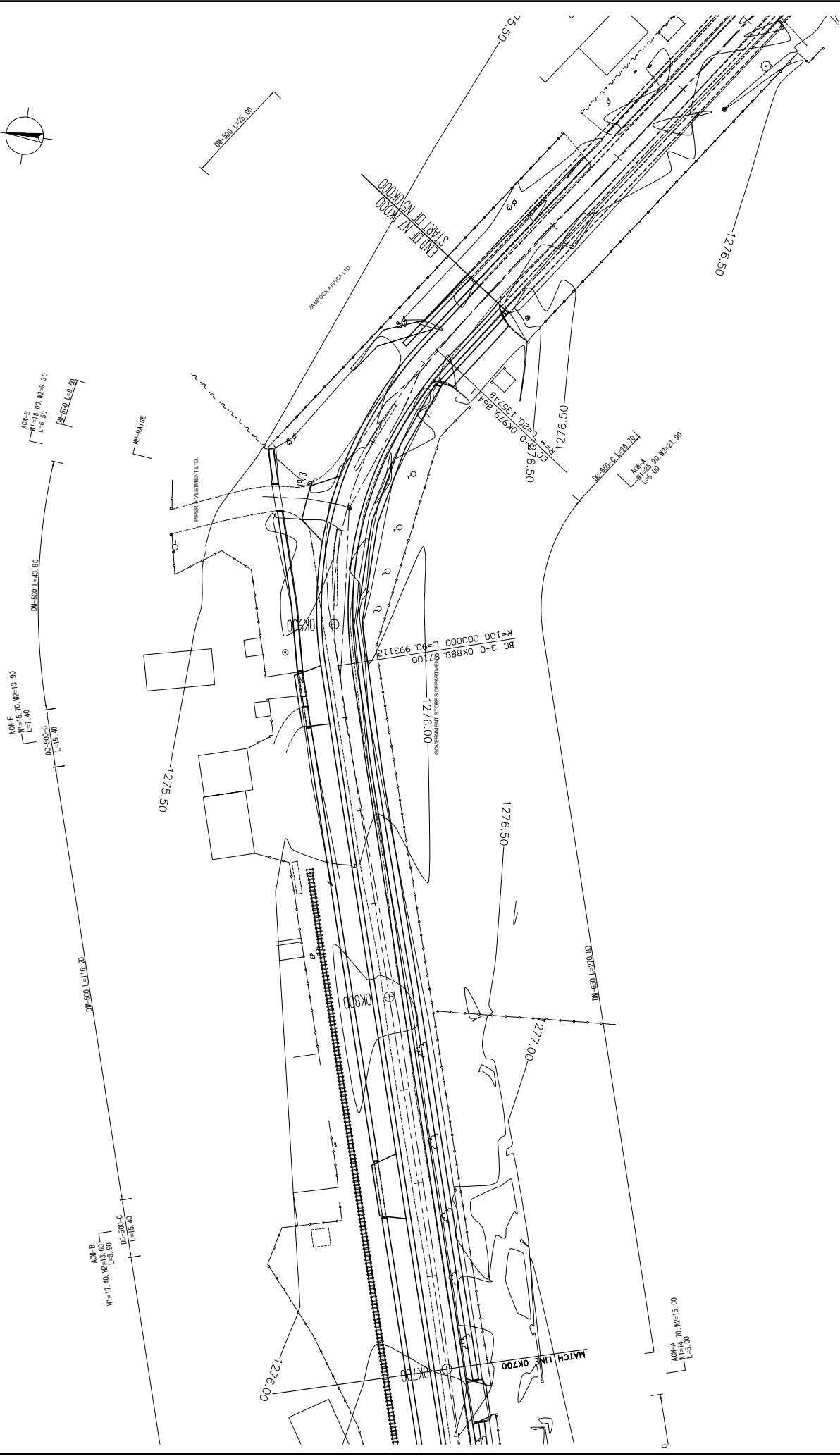
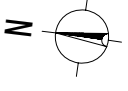
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDUOLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN N6: METELO ROAD	SCALE S=1:500	APPROVED	PREPARED CHECKED	DATE	SHEET NO PL-20
					DATE	SUBMITTED		

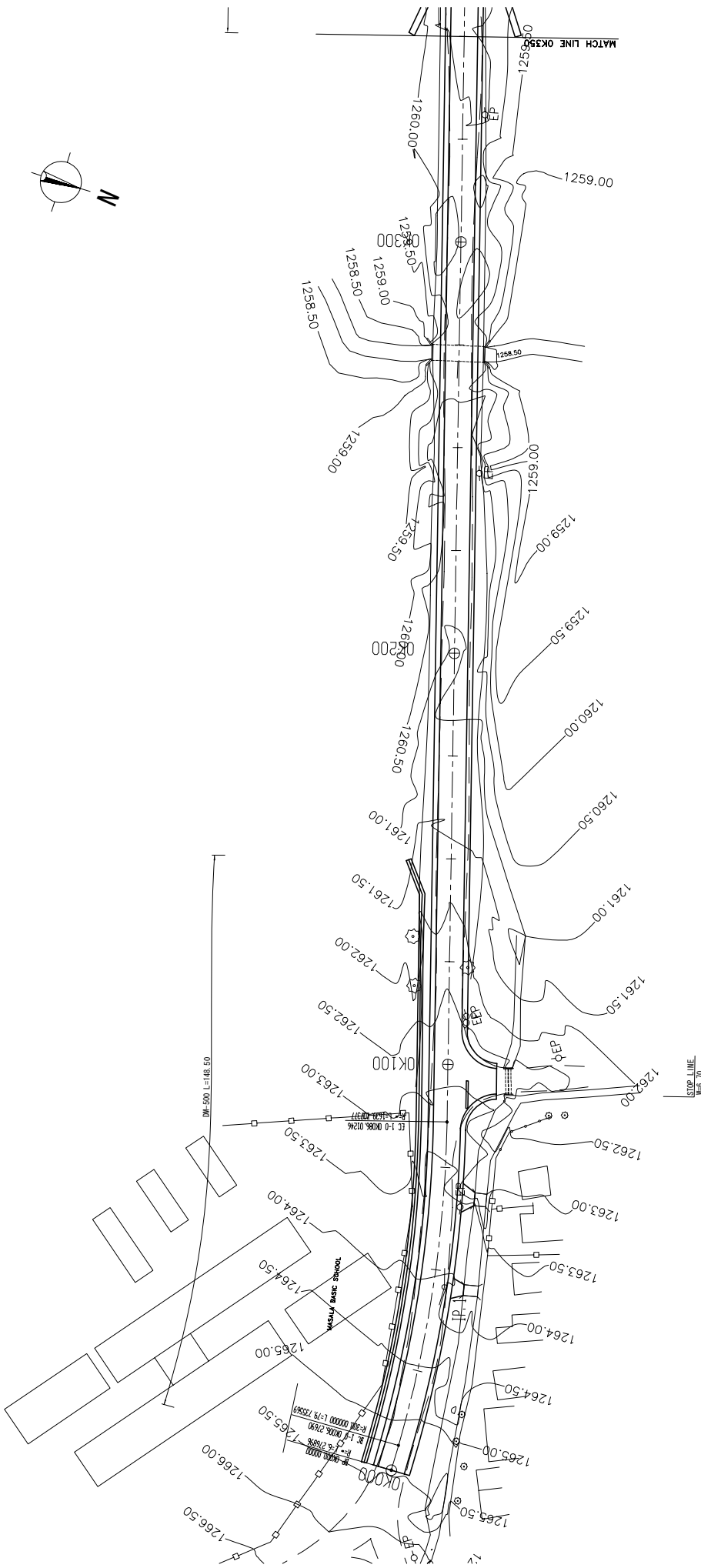
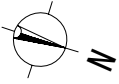


MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN N7: LUKASU ROAD (1/3)	SCALE S=1:500	APPROVED DATE	KATAMIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED SUBMITTED	DATE	SHEET NO PL-21
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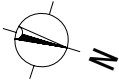
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED DATE	KATAMBA & ENGINEERS INTERNATIONAL	PREPARED CHECKED	DATE	SHEET NO PL-22
							SUBMITTED		





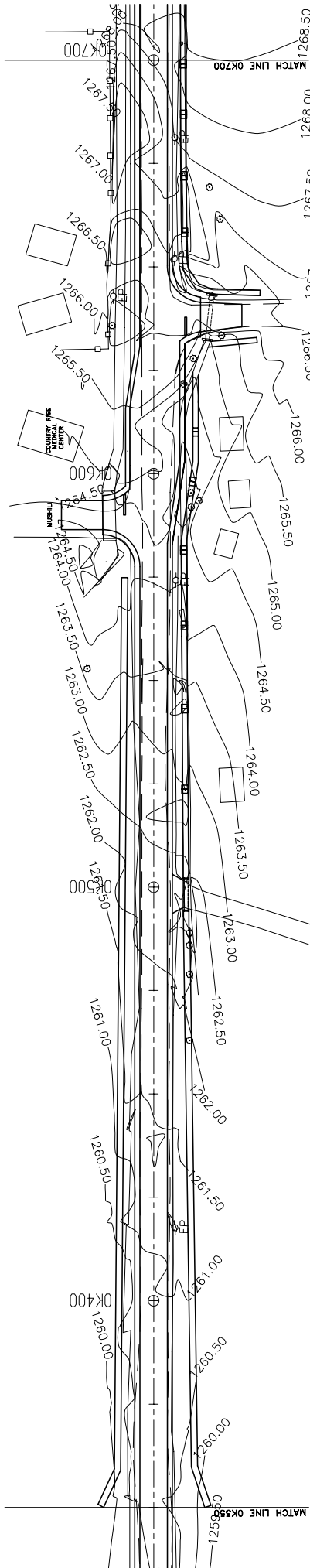
ANGLE
 WS=5.00
 WS=3.00
 WS=3.00
 L=2.80
 L=3.00

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED	SHEET NO
						DATE	PL-24
BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND ACTIVE CITY ROADS IN THE REPUBLIC OF ZAMBIA		N8: CHAMBESHI ROAD (1/13)		DATE		SUBMITTED	



ADW-A
 W1= 7.00
 W2= 7.00
 L=10.00
 STOP LINE
 W=4.50

DM-650 L=225.40



STOP LINE
 W=4.50

DM-500
 W= 3.00
 L=7.00
 DM-600 x 2

DM-550 L=140.40

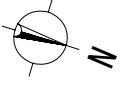
DM-500 L=22.50
 SUB-1500 x 12

DM-500
 L=11.90

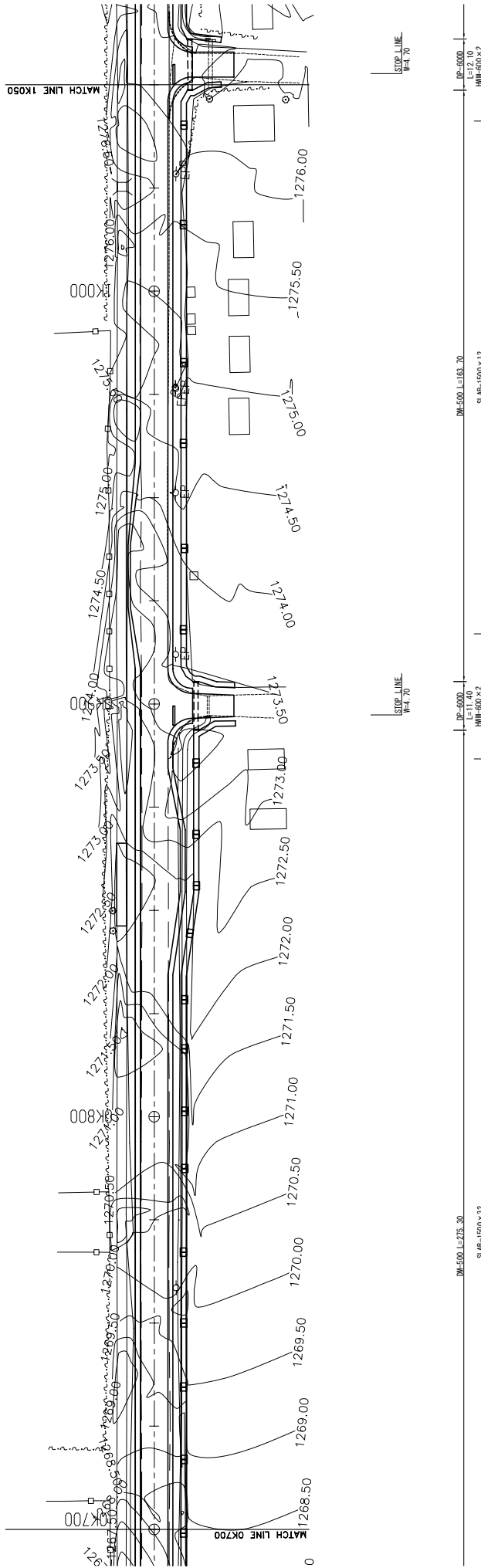
ADW-E
 W1= 8.50
 W2= 6.30
 L=2.80

ADW-A
 W1= 7.10
 W2= 5.50
 L=10.00

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDLA AND RTVE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1500	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED	DATE	SHEET NO PL-25
					DATE		SUBMITTED		



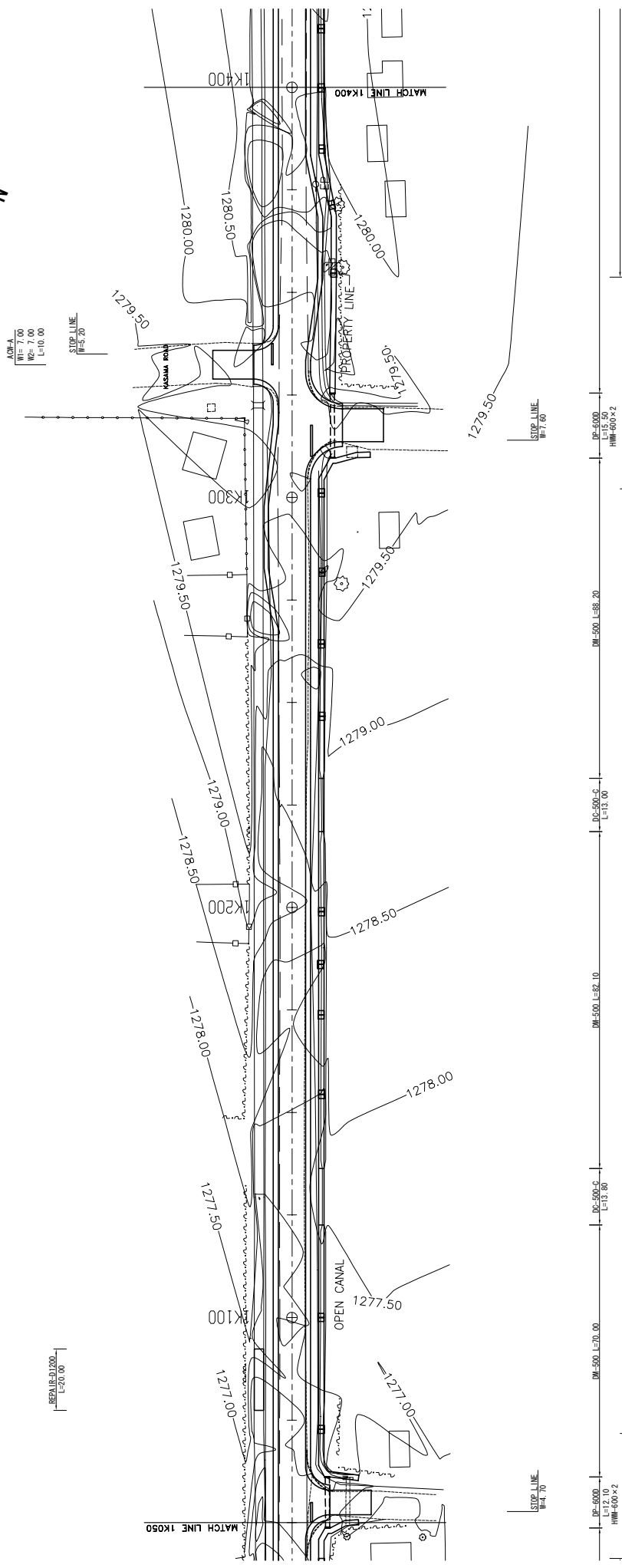
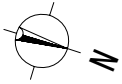
REGULAR 1:200
E=20.00



ACPI-A
WF=6.00
WF=5.00
E=10.00

ACPI-A
WF=6.00
WF=5.00
E=10.00

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1500	APPROVED DATE	KATAHARA & ENGINEERS INTERNATIONAL	PREPARED CHECKED SUBMITTED	DATE	SHEET NO PL-26



ACPF-A
 W= 7.00
 W2= 7.00
 L=10.00

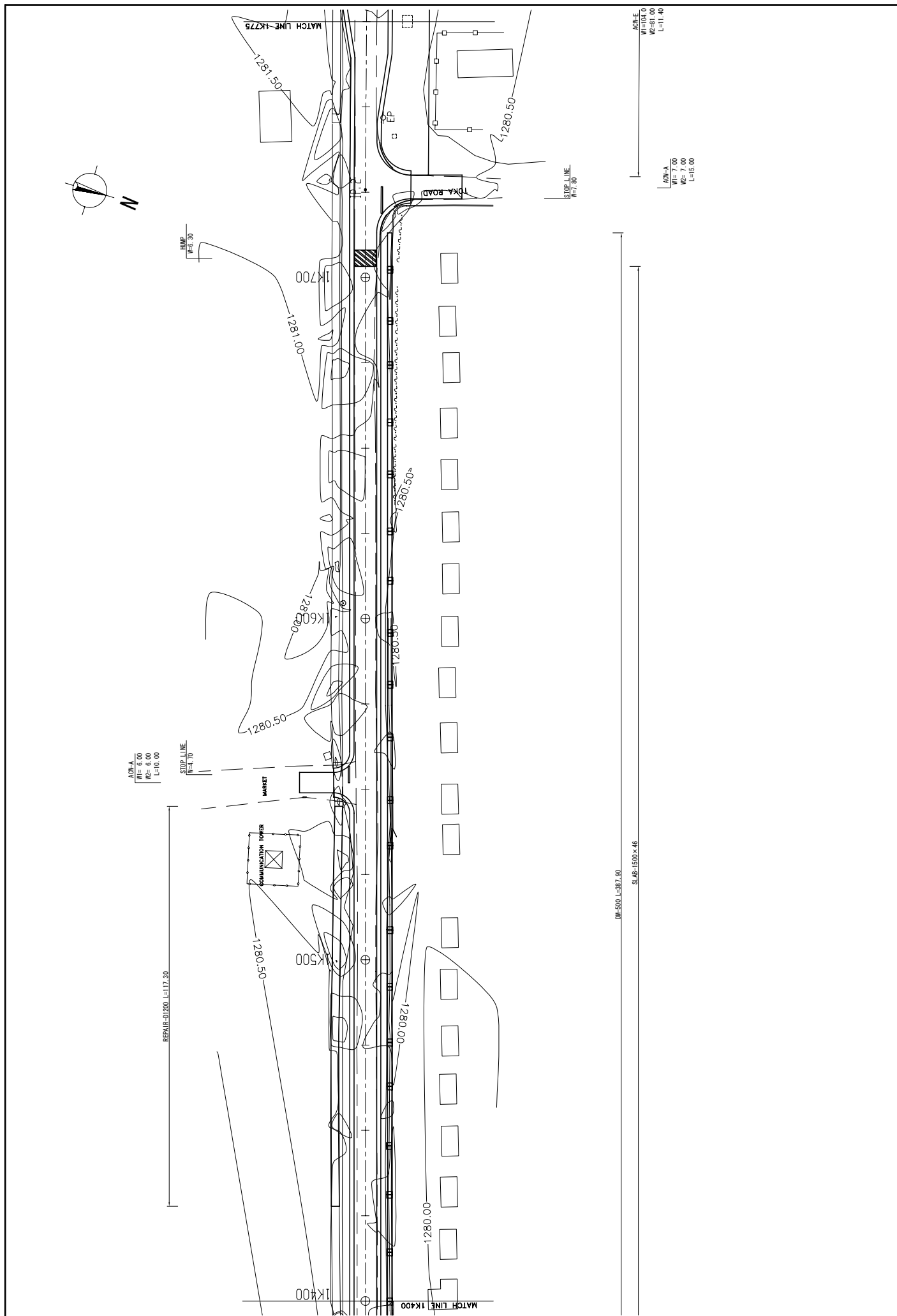
STOP LINE
 W=2.20

STOP LINE
 W=4.70

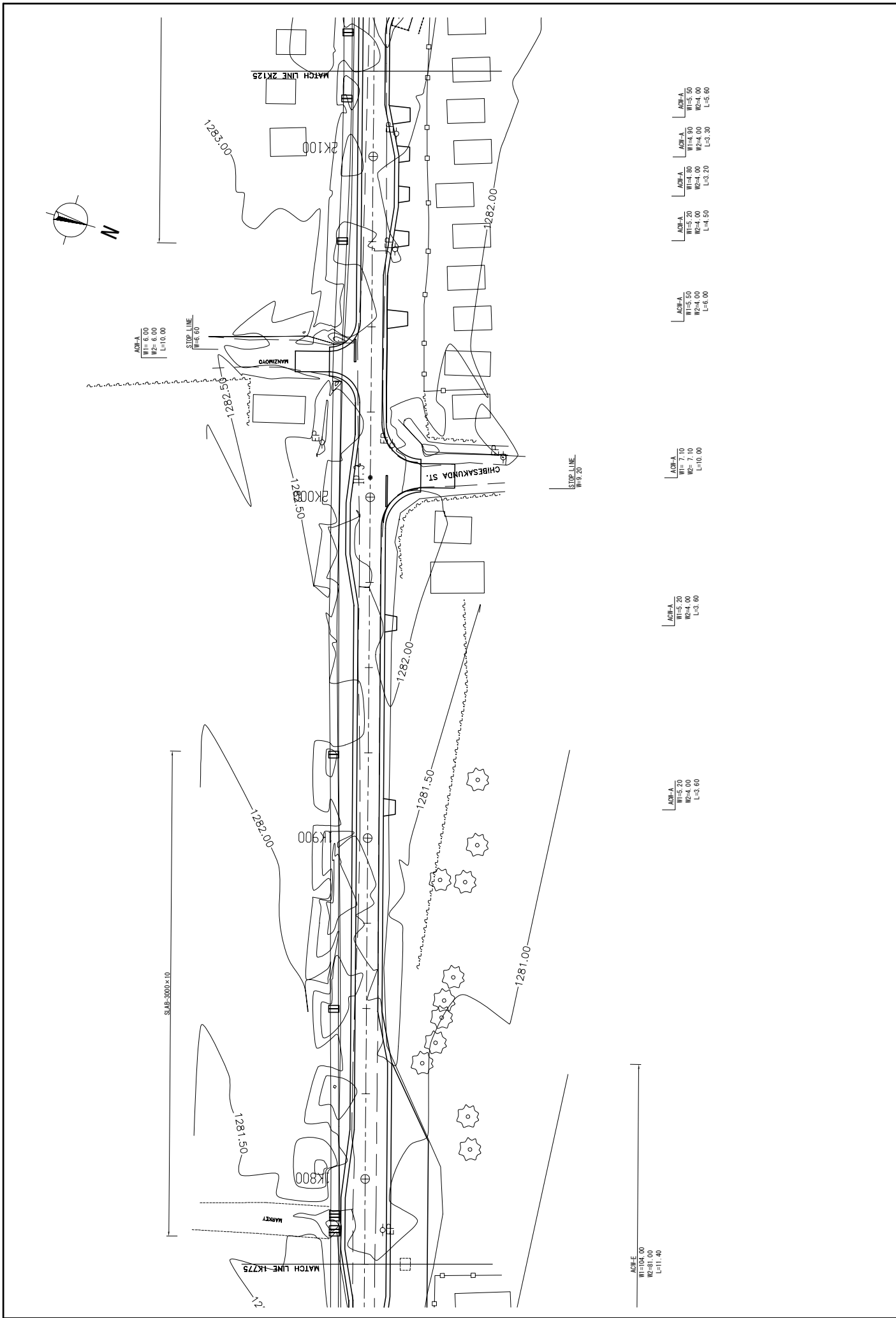
ACPF-A
 W= 6.00
 W2= 6.00
 L=10.00

ACPF-A
 W= 6.00
 W2= 6.00
 L=10.00

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NODDA AND NITVE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1500	APPROVED DATE	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED SUBMITTED	DATE	SHEET NO
								PL-27	



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NODOLA AND MUTIVE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	S=1500	APPROVED	KATAHARA & ENGINEERS INTERNATIONAL	PREPARED CHECKED	DATE	SHEET NO	PL-28
				N8: CHAMBESHI ROAD (S/13)	DATE			SUBMITTED			



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1500	APPROVED DATE	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED SUBMITTED	DATE	SHEET NO PL-29

ADP-E
W=104.00
W2=81.00
L=11.40

ADP-A
W=5.20
W2=6.00
L=3.80

ADP-A
W=7.10
W2=4.00
L=10.00

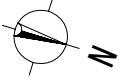
ADP-A
W=7.10
W2=4.00
L=10.00

ADP-A
W=4.00
W2=4.00
L=6.00

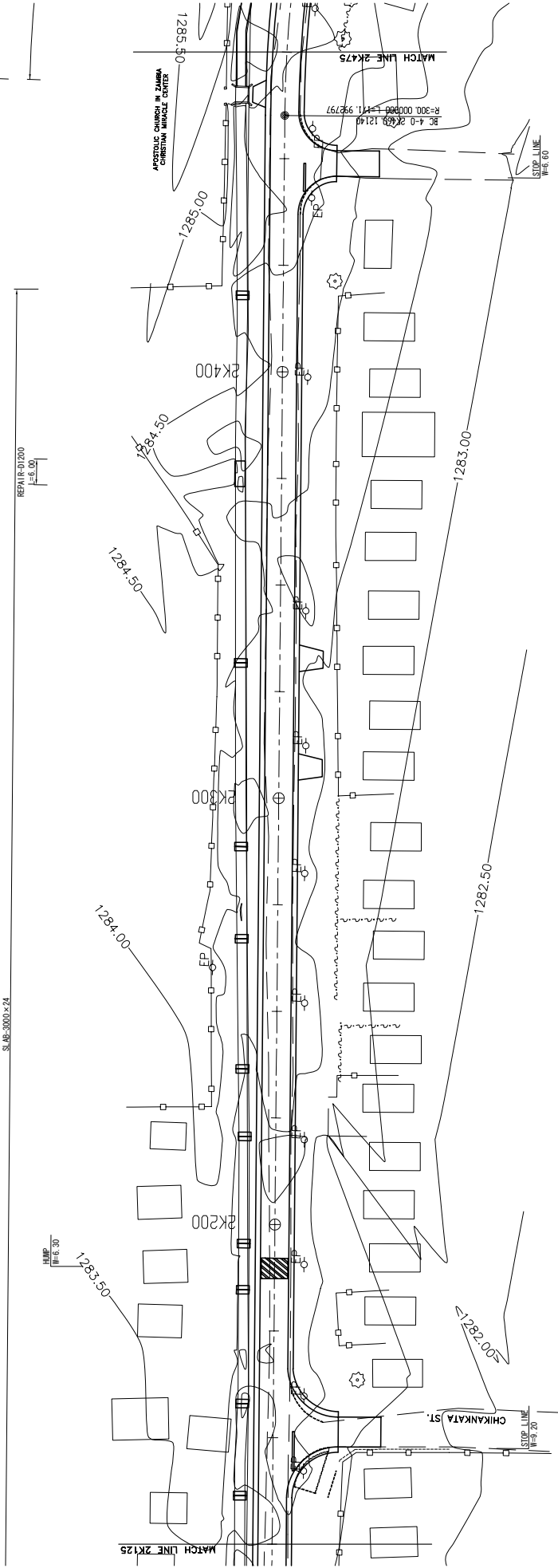
ADP-A
W=4.00
W2=4.00
L=4.50

ADP-A
W=4.00
W2=4.00
L=3.20

ADP-A
W=4.00
W2=4.00
L=5.80



ACW-A
W1=6.30
W2=6.00
L=10.00



SLAB:3000x24

LAMP
W=6.30

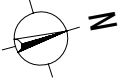
ACW-A
W1=7.00
W2=7.00
L=10.00

ACW-A
W1=5.70
W2=4.00
L=5.60

ACW-A
W1=5.70
W2=4.00
L=5.60

ACW-A
W1=6.00
W2=6.00
L=10.00

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1500	APPROVED DATE	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED SUBMITTED	DATE	SHEET NO PL-30



ADW-E
W=7.00
H=3.50
L=4.50

ADW-E
W=7.00
H=3.50
L=4.70

ADW-A
W=9.00
H=3.50
L=5.70

ADW-A
W=7.00
H=3.50
L=10.00

ADW-E
W=5.50
H=3.50
L=5.10

ADW-E
W=5.50
H=3.50
L=5.10

ADW-E
W=5.10
H=3.50
L=5.10

ADW-E
W=5.10
H=3.50
L=5.10

ADW-E
W=9.00
H=3.50
L=5.70

DM-1200-L=152

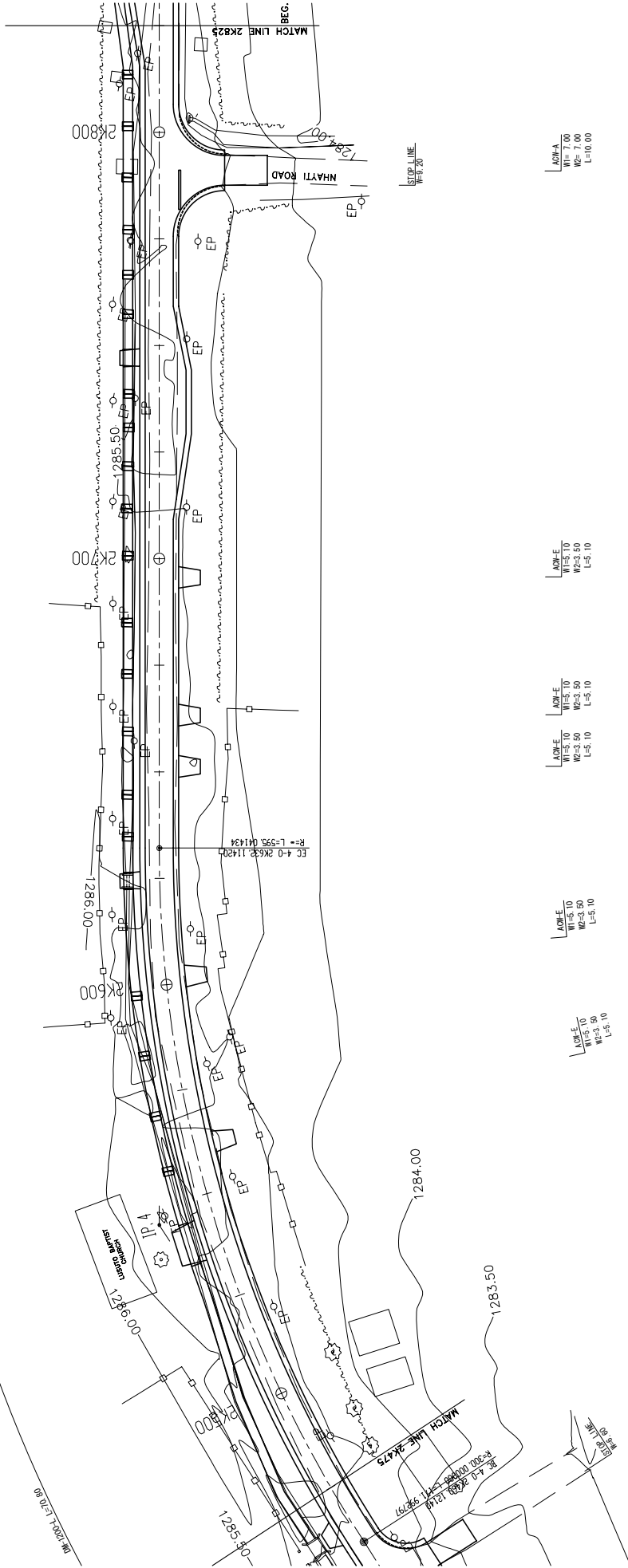
DC-1200-C
H=4.00

DM-1200-L=118.60
SI. 200x50

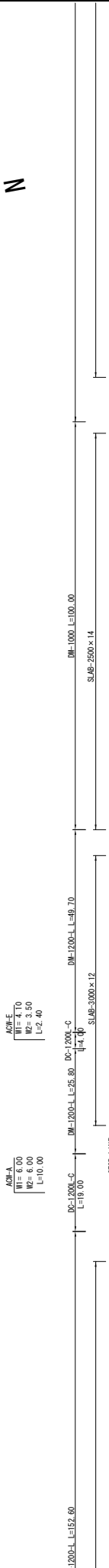
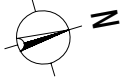
DC-1200-C
H=4.00

DM-1200-L=80.10

DM-1200-L=70.80



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED	DATE	SHEET NO



STOP LINE
W=7.10

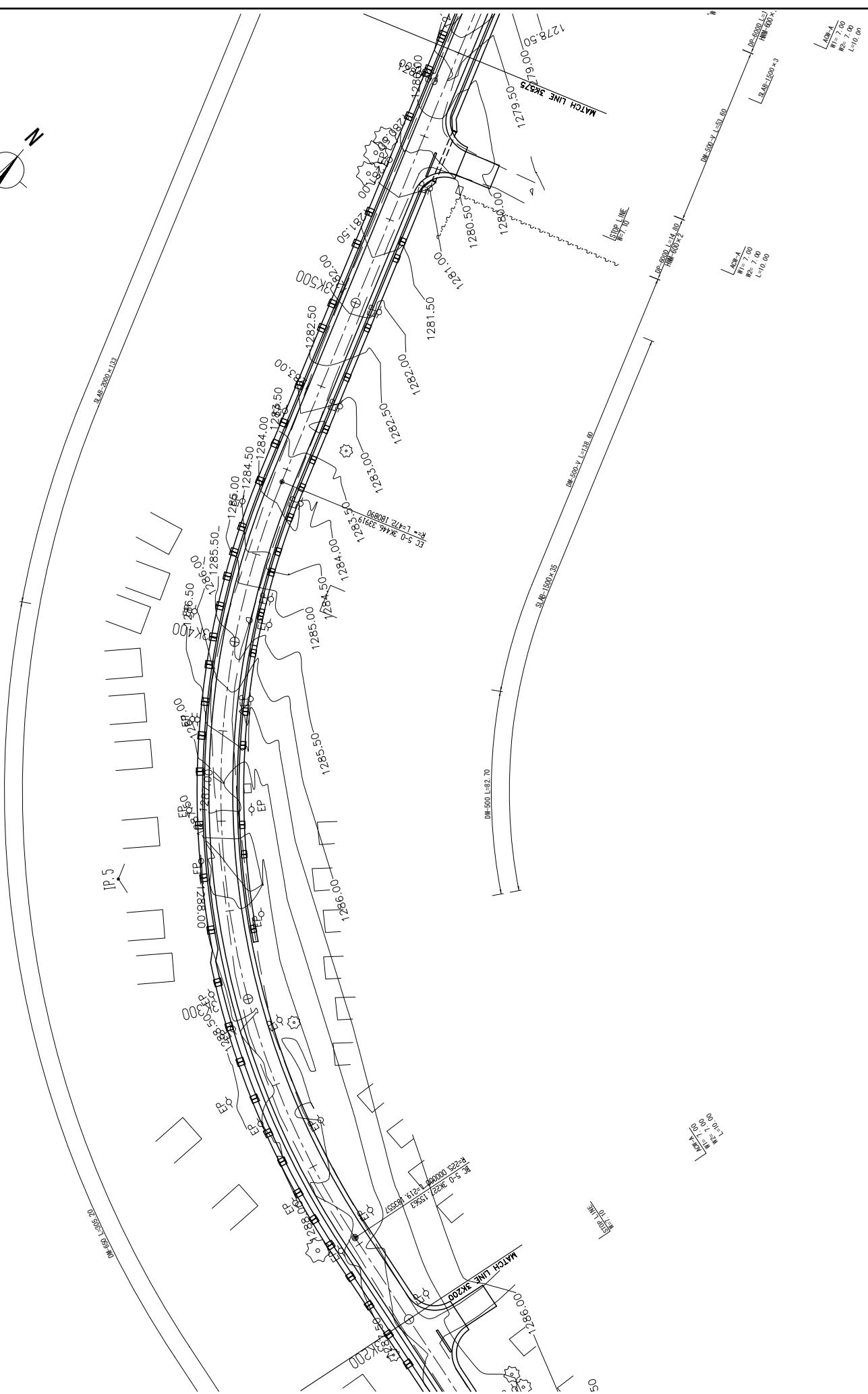
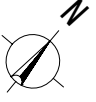
ADW-A
W=6.00
W=3.150
L=2.40

ADW-E
W=5.10
W=2.550
L=5.10

ADW-E
W=6.00
W=3.150
L=2.40

ADW-A
W=6.00
W=3.150
L=2.40

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND NATIVE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN		SCALE S=1500	APPROVED DATE	PREPARED CHECKED SUBMITTED	DATE	SHEET NO PL-32
			N8: CHAMBESHI ROAD (9/13)						



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED	DATE	SHEET NO
							DATE	PL-33
N8: CHAMBESHI ROAD (10/13)			S=1500					

BASIC DESIGN FOR THE PROJECT
FOR IMPROVEMENT AND MAINTENANCE
OF NODDA AND NATIVE CITY ROADS
IN
THE REPUBLIC OF ZAMBIA

MINISTRY OF LOCAL GOVERNMENT
AND HOUSING
THE REPUBLIC OF ZAMBIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PLAN

SCALE

APPROVED

KATAHIRA & ENGINEERS
INTERNATIONAL

PREPARED CHECKED

DATE

SHEET NO



AWH-A
W1= 7.00
W2= 7.00
L=10.00

DM-500
L=17.60

DM-500
L=16.60

DC-650-C
L=8.00

DM-500-V L=53.00

DM-500-V L=20.60

DC-650-C
L=8.00

DM-500-V L=53.00

DC-650-C
L=8.00

DM-500-V L=53.00

DC-650-C
L=8.00

DM-500-V L=53.00

DC-650-C
L=8.00

DM-500-V L=53.00

DC-650-C
L=8.00

DM-500-V L=53.00

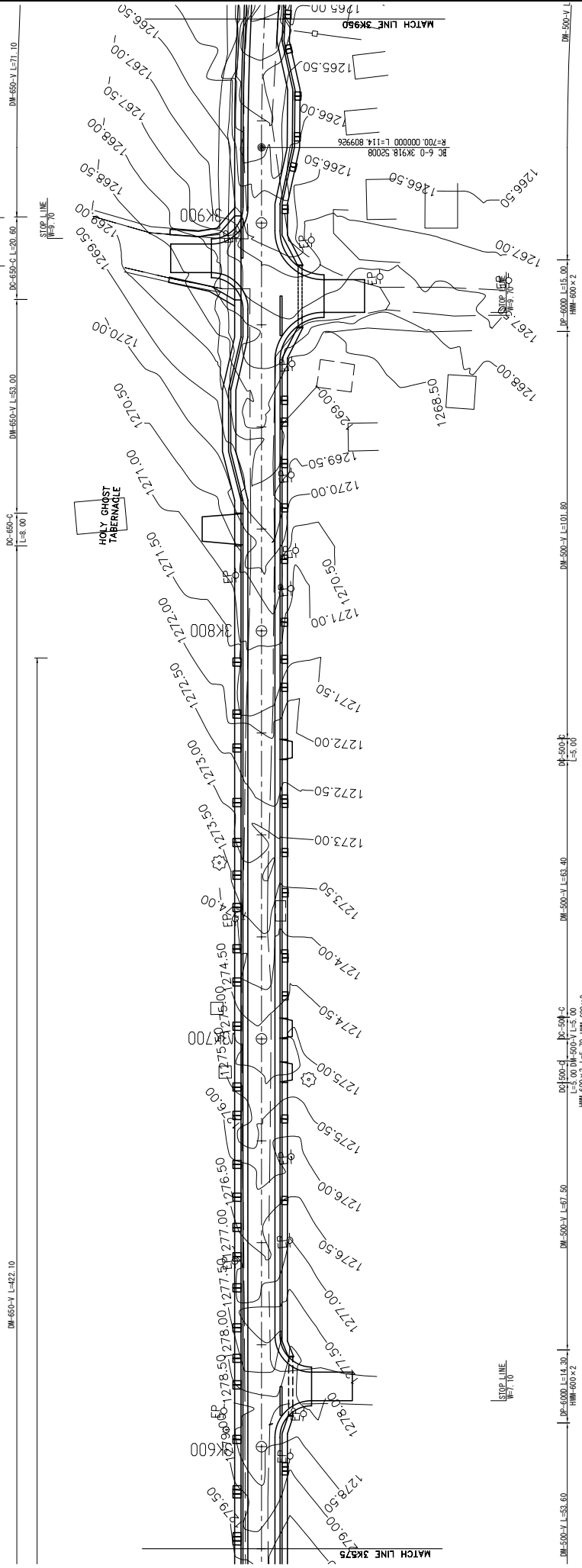
DC-650-C
L=8.00

DM-500-V L=53.00

DC-650-C
L=8.00

DM-500-V L=53.00

DC-650-C
L=8.00



AWH-A
W1= 7.00
W2= 7.00
L=10.00

DM-500
L=17.60

DM-500
L=16.60

DC-650-C
L=8.00

DM-500-V L=53.00

DM-500-V L=20.60

DC-650-C
L=8.00

DM-500-V L=53.00

DC-650-C
L=8.00

DM-500-V L=53.00

DC-650-C
L=8.00

DM-500-V L=53.00

DC-650-C
L=8.00

DM-500-V L=53.00

DC-650-C
L=8.00

DM-500-V L=53.00

DC-650-C
L=8.00

DM-500-V L=53.00

DC-650-C
L=8.00

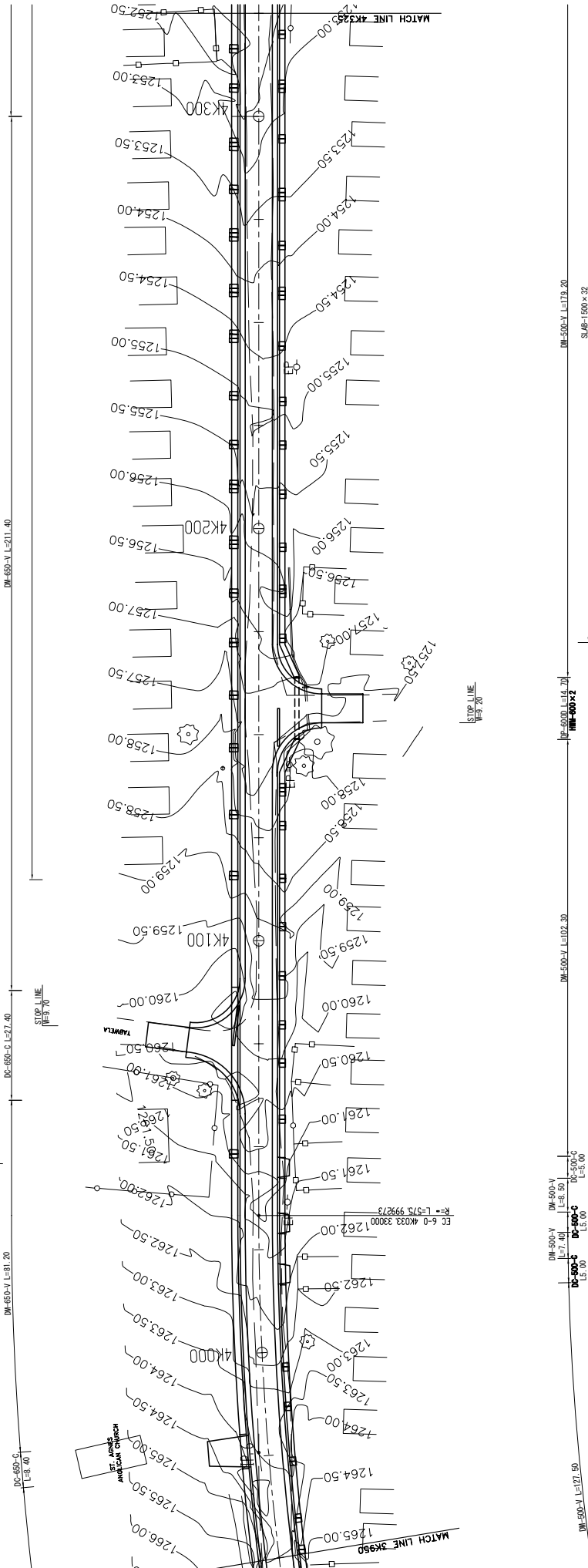
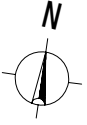
SCALE: 1:500

SCALE: 1:500 x 3

SCALE: 1:500 x 2

SCALE: 1:500 x 2

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDLDA AND RTIVE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	PREPARED CHECKED	DATE	SHEET NO
				N8: CHAMBESHI ROAD (11/13)				



ACM-E
W1=5.00
W2=4.00
L=10.00

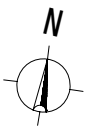
ACM-E
W1=7.00
W2=5.00
L=10.00

ACM-A
W1=7.00
W2=7.00
L=10.00

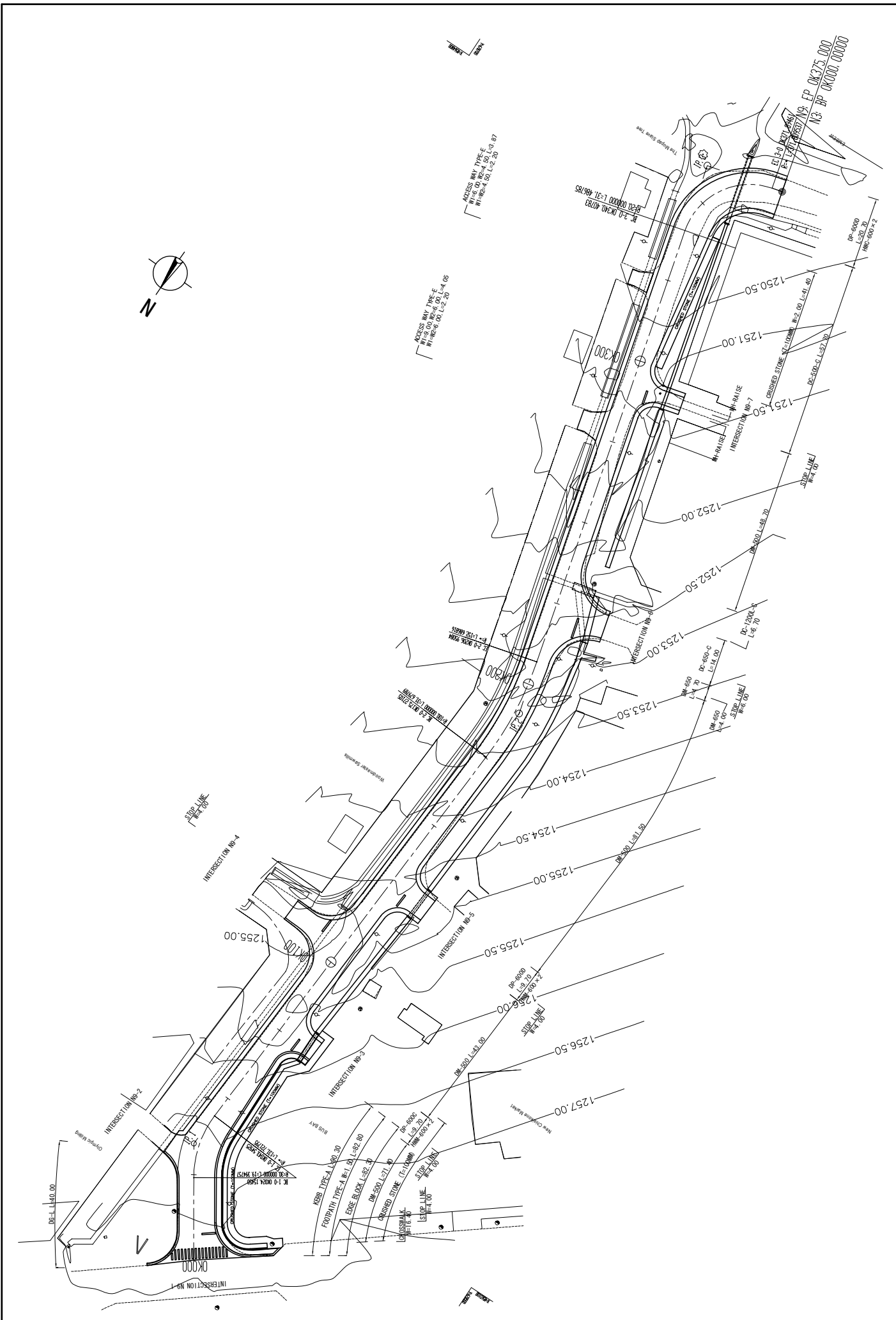
ACM-E
W1=5.00
W2=4.00
L=2.90

ACM-E
W1=5.00
W2=4.00
L=2.90

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND NTFIVE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1500	APPROVED	PREPARED CHECKED	DATE	SHEET NO
					DATE	SUBMITTED		PL-35
			N8: CHAMBESHI ROAD (12/13)		KATAHIRA & ENGINEERS INTERNATIONAL			



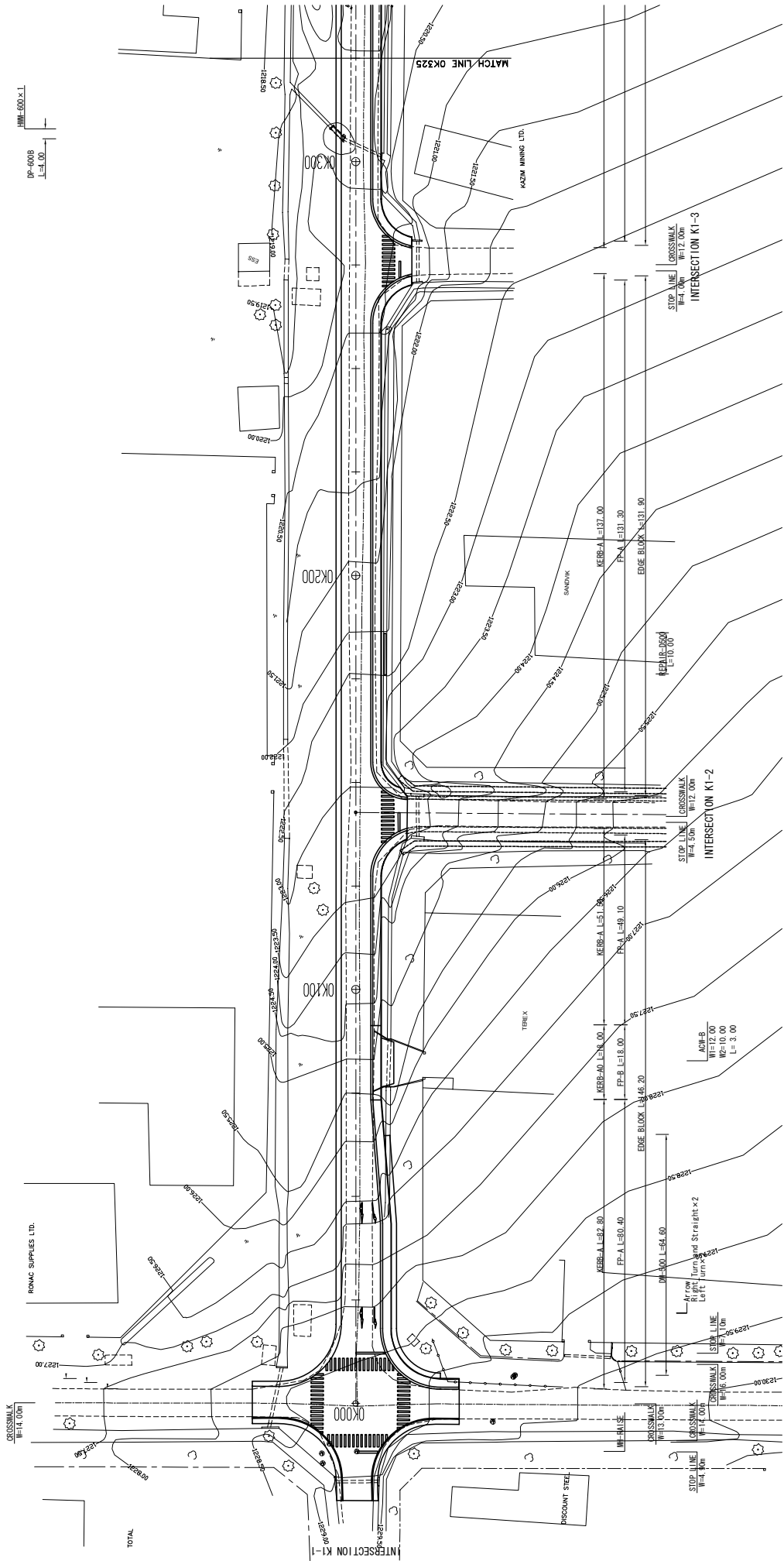
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	S=1500	APPROVED DATE	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED SUBMITTED	DATE	SHEET NO PL-36
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MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1500	APPROVED	DATE	PREPARED CHECKED	DATE	SHEET NO
				DATE				
N9: LIVINGSTONE ROAD				KATAMBA & ENGINEERS INTERNATIONAL				



MM=600x1
 DP=6008
 L=1.00



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1500	APPROVED	PREPARED CHECKED	DATE	SHEET NO
				DATE	SUBMITTED		
BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA		K1: DR. AGGREY AVENUE(1/3)		KATAHIRA & ENGINEERS INTERNATIONAL			PL-38



INTERSECTION KI-4

ADP-A
W=15.00
W2=4.00
L=7.00

ADP-A
W=15.00
W2=4.00
L=7.00

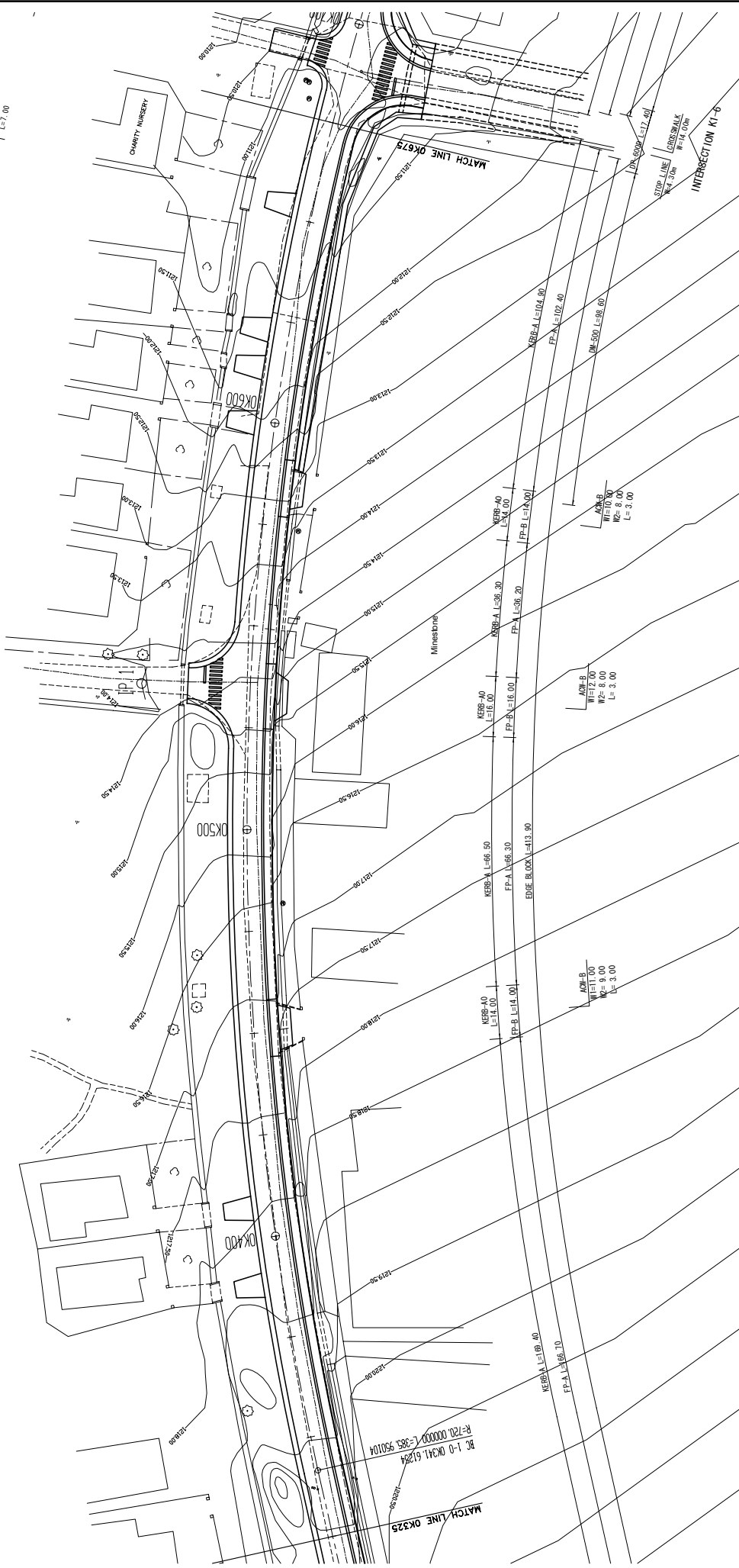
ADP-A
W=15.00
W2=4.00
L=7.00

ADP-A
W=15.00
W2=4.00
L=7.00

CROSSWALK
W=4.70m

STOP LINE
W=4.70m

ADP-A
W=15.00
W2=4.00
L=7.00



BC 1-0 (0341.6)24
R-720 000000 (385.950104

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED	DATE	SHEET NO
						SUBMITTED		
K1: DR. AGGREY AVENUE(2/3)			S=1:500	DATE				



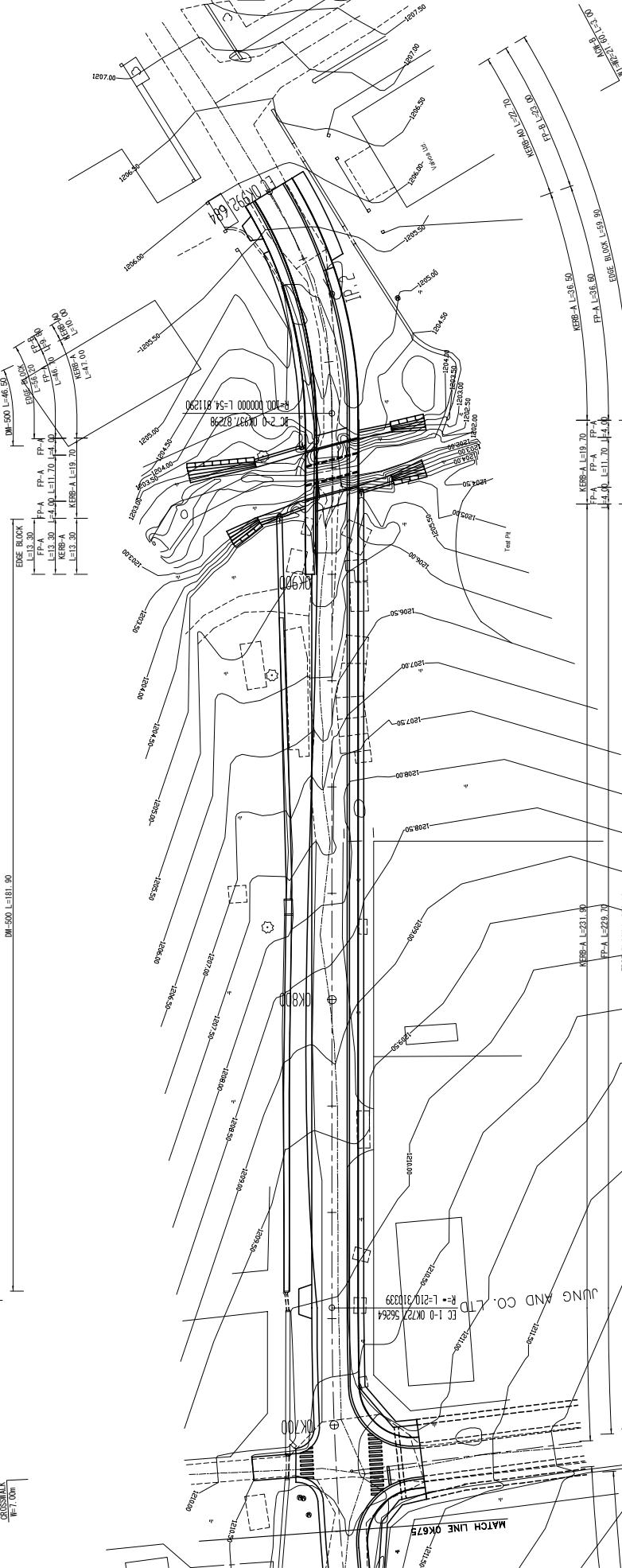
INTERSECTION K1-5

STOP LINE
W=3.00
W2=6.00
L=3.00

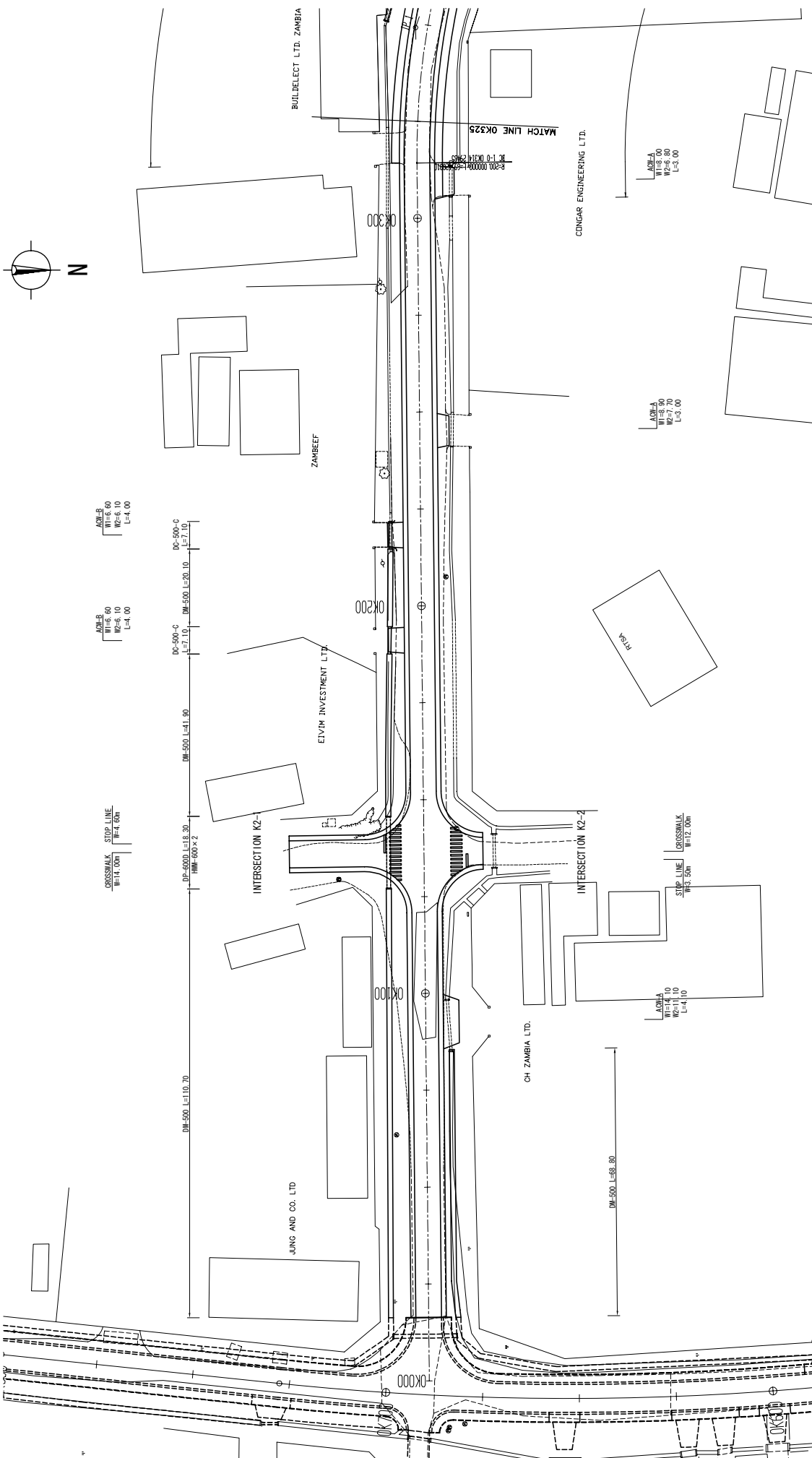
CROSSWALK
W=7.00

EDGE BLOCK
DM=500 L=181.90

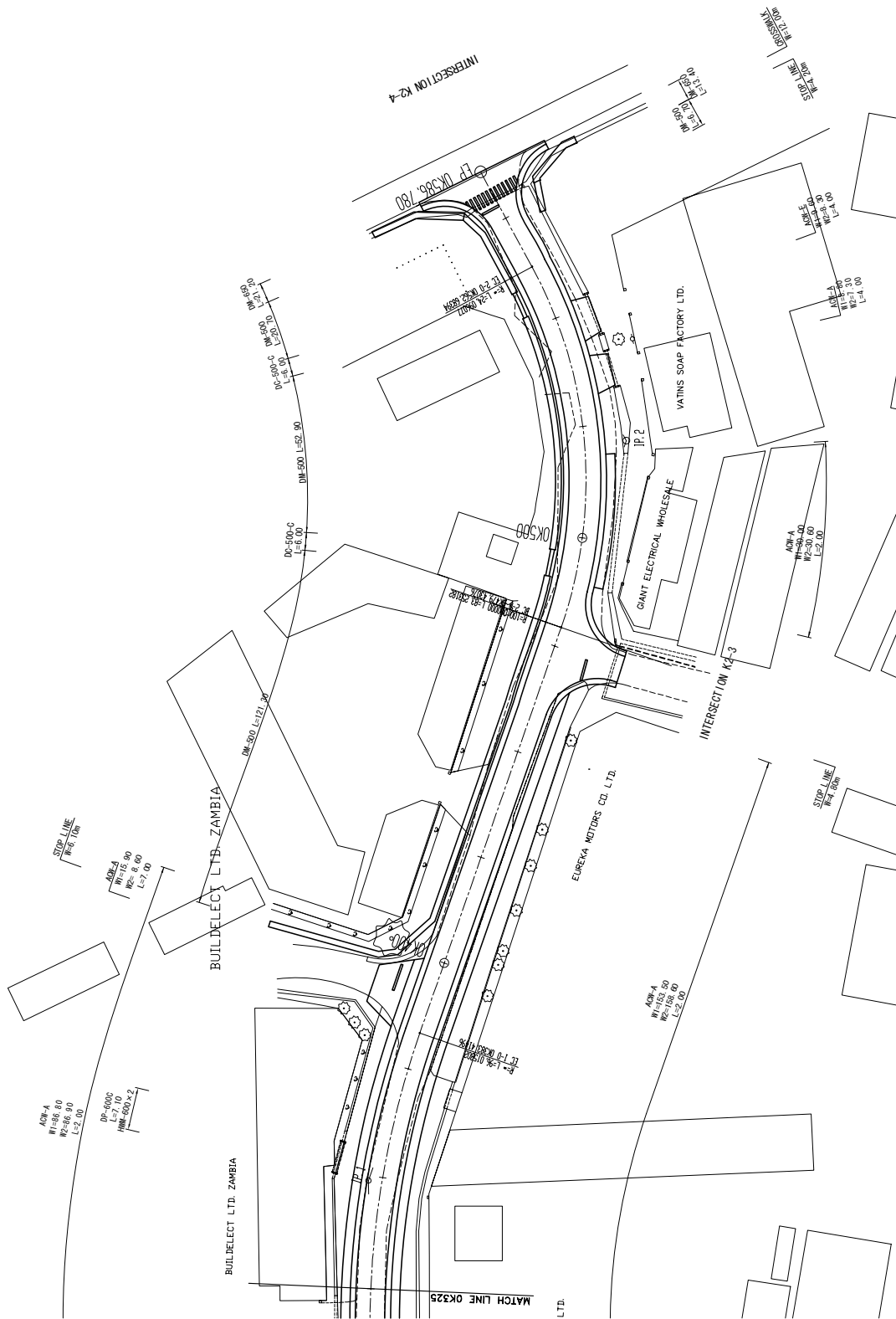
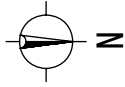
EDGE BLOCK
L=13.30
FP-A L=14.00 L=11.70 L=4.00
KERB-A L=13.30
KERB-A L=19.70
L=41.00



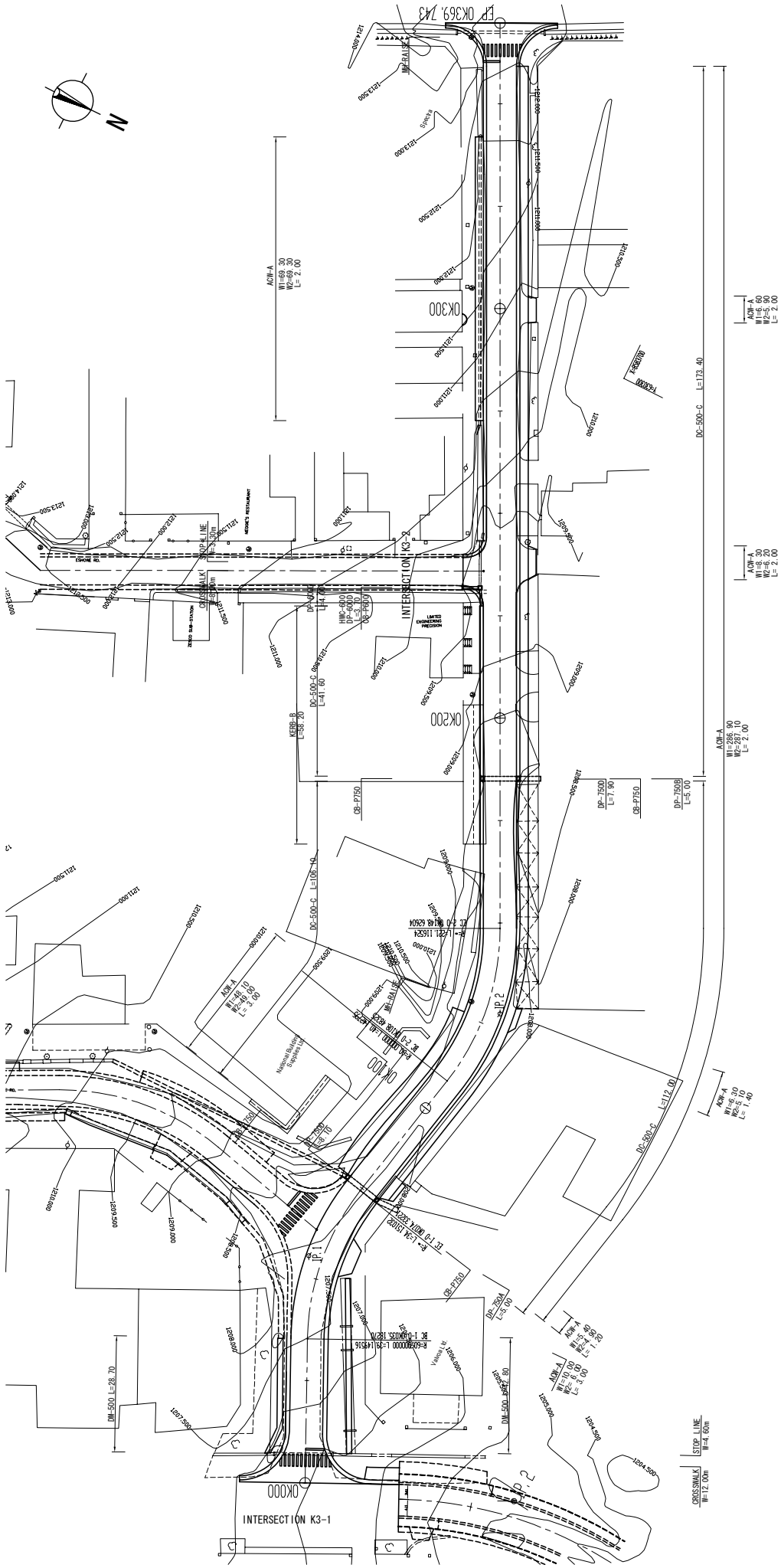
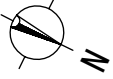
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED DATE	PREPARED CHECKED SUBMITTED	DATE	SHEET NO PL-40
			K1: DR. AGGREY AVENUE(3/3)	S=1:500				



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		SCALE S=1:500	APPROVED DATE	KATAHIBA & ENGINEERS INTERNATIONAL	PREPARED CHECKED SUBMITTED	DATE	SHEET NO PL-41
	PLAN	K2: EUCLID ROAD (1/2)						
BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA								



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED DATE	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED SUBMITTED	DATE	SHEET NO



STOP LINE
W=14.50m
CROSSWALK
W=9.00m

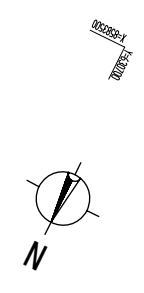
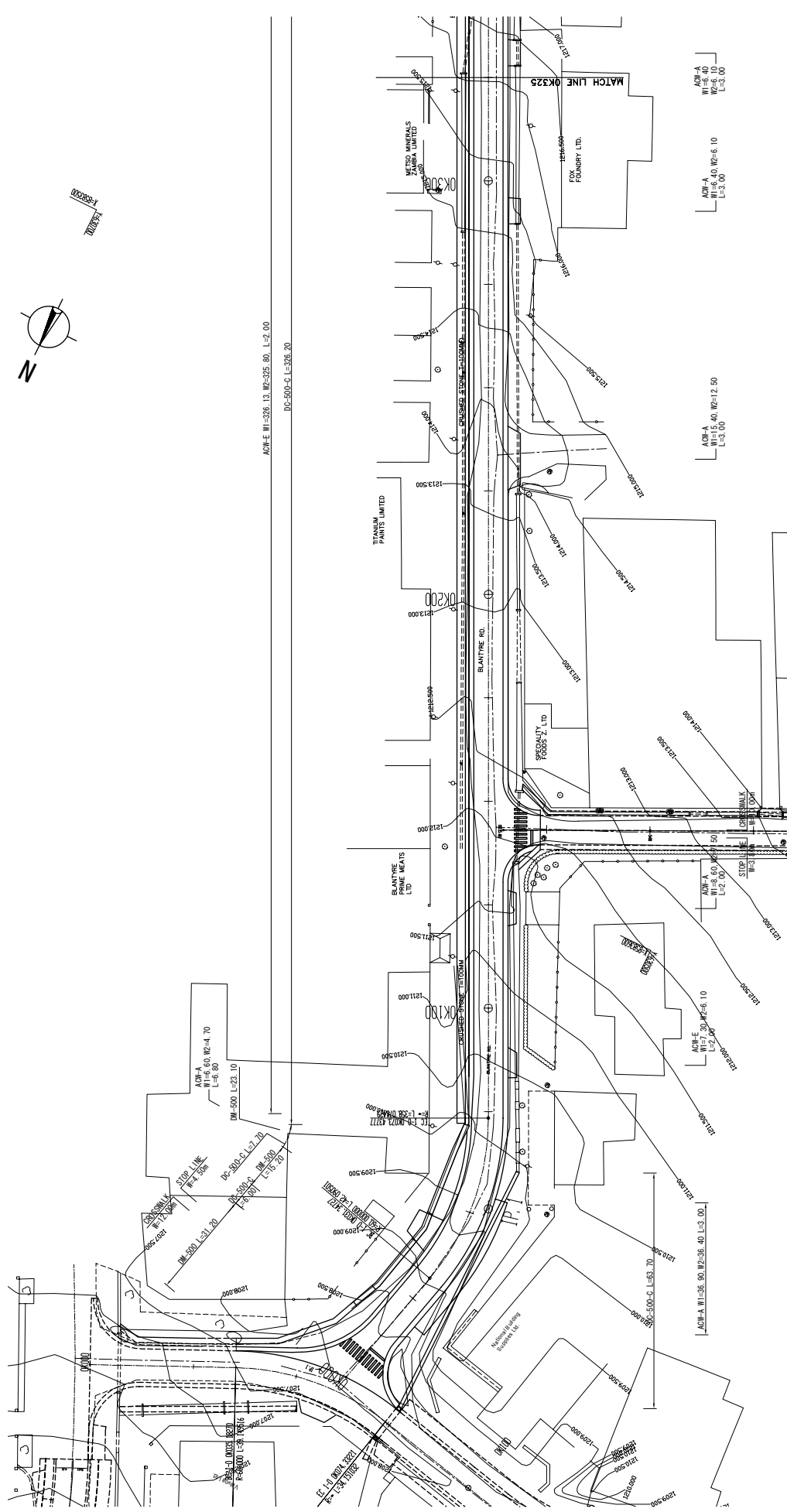
ADH-A
W=69.30
W2=69.30
L=2.00

ADH-A
W=286.90
W2=287.10
L=2.00

ADH-A
W=12.00
W2=14.50
L=1.40

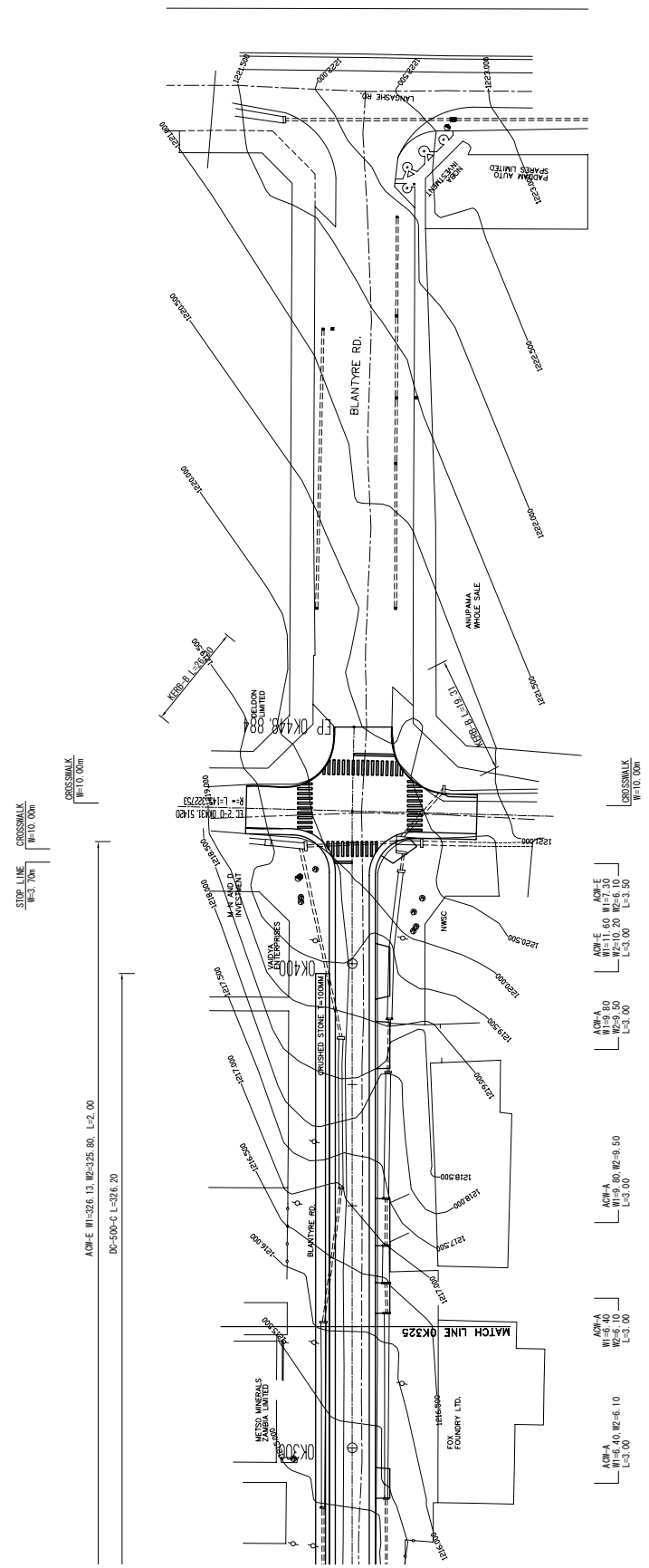
STOP LINE
W=14.50m
CROSSWALK
W=12.00m

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	K3: ZOMBA ROAD	SCALE	S=1:500	APPROVED	DATE	PREPARED CHECKED	DATE	SHEET NO
					KATAHIRA & ENGINEERS INTERNATIONAL	SUBMITTED	PL-43				



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED	PREPARED CHECKED	DATE	SHEET NO
				DATE			
BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA							
K4: BLANTYRE ROAD (1/2)							
KATAHIRA & ENGINEERS INTERNATIONAL							

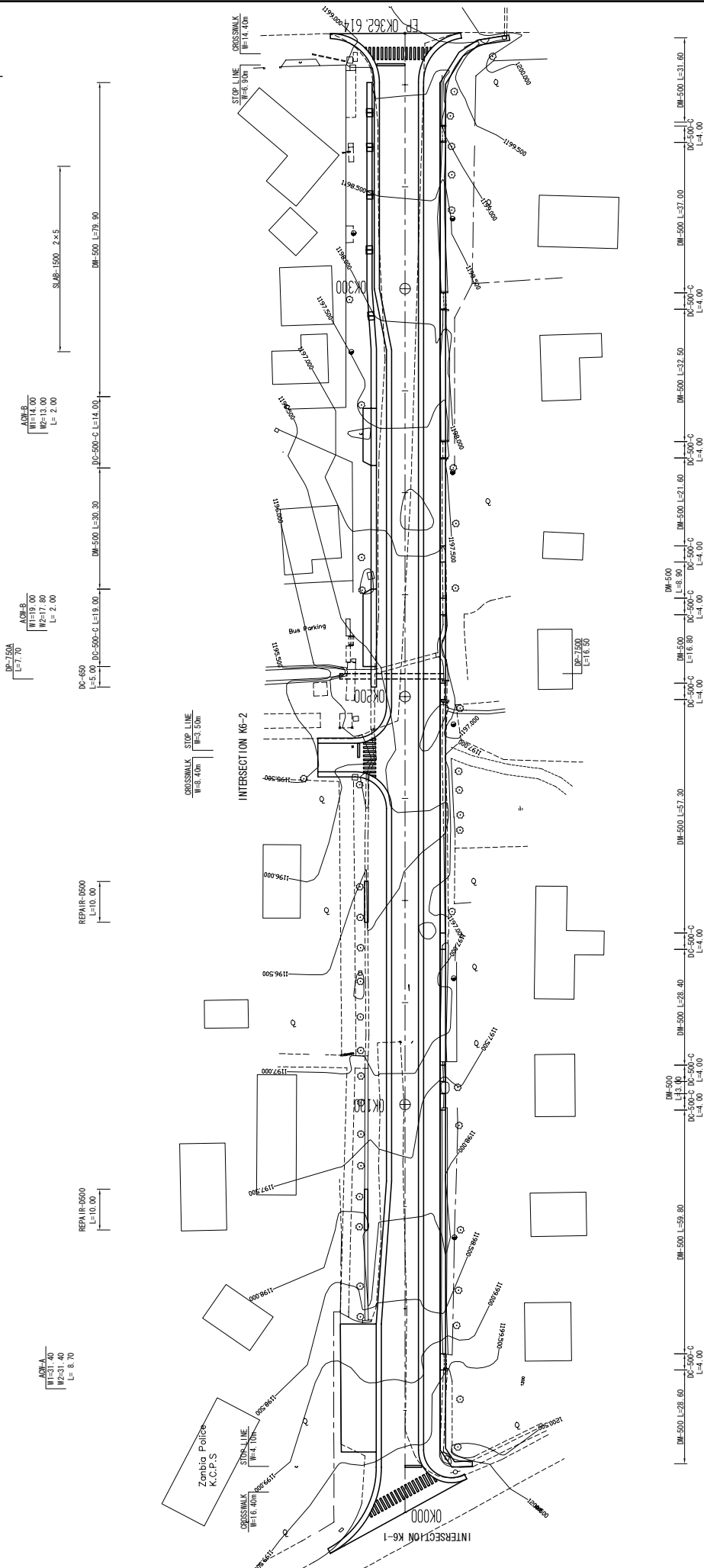
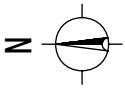
K40300
700000



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN		SCALE S=1:500	APPROVED DATE	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED SUBMITTED	DATE	SHEET NO PL-45
			K4: BLANTYRE ROAD (2/2)							



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED	PREPARED CHECKED	DATE	SHEET NO
				DATE	SUBMITTED		PL-46
BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA				KATAHIRA & ENGINEERS INTERNATIONAL			



DP-750A
L=7.70

ACQB-B
W1=19.00
W2=17.80
L=2.00

ACQB-B
W1=14.00
W2=13.00
L=2.00

REPAIR-0500
L=10.00

REPAIR-0500
L=10.00

DM-500 L=30.30

DM-500 L=31.60

DM-500 L=37.00

DM-500 L=47.00

DM-500 L=57.00

DM-500 L=67.00

DM-500 L=77.00

DM-500 L=87.00

DM-500 L=97.00

DM-500 L=107.00

DM-500 L=117.00

DM-500 L=127.00

DM-500 L=137.00

DM-500 L=147.00

DM-500 L=157.00

DM-500 L=167.00

DM-500 L=177.00

DM-500 L=187.00

DM-500 L=197.00

DM-500 L=207.00

DM-500 L=217.00

DM-500 L=227.00

DM-500 L=237.00

DM-500 L=247.00

DM-500 L=257.00

DM-500 L=267.00

DM-500 L=277.00

DM-500 L=287.00

DM-500 L=297.00

DM-500 L=307.00

DM-500 L=317.00

DM-500 L=327.00

DM-500 L=337.00

DM-500 L=347.00

DM-500 L=357.00

DM-500 L=367.00

DM-500 L=377.00

DM-500 L=387.00

DM-500 L=397.00

DM-500 L=407.00

DM-500 L=417.00

DM-500 L=427.00

DM-500 L=437.00

DM-500 L=447.00

DM-500 L=457.00

DM-500 L=467.00

DM-500 L=477.00

DM-500 L=487.00

DM-500 L=497.00

DM-500 L=507.00

DM-500 L=517.00

DM-500 L=527.00

DM-500 L=537.00

DM-500 L=547.00

DM-500 L=557.00

DM-500 L=567.00

DM-500 L=577.00

DM-500 L=587.00

DM-500 L=597.00

DM-500 L=607.00

DM-500 L=617.00

DM-500 L=627.00

DM-500 L=637.00

DM-500 L=647.00

DM-500 L=657.00

DM-500 L=667.00

DM-500 L=677.00

DM-500 L=687.00

DM-500 L=697.00

DM-500 L=707.00

DM-500 L=717.00

DM-500 L=727.00

DM-500 L=737.00

DM-500 L=747.00

DM-500 L=757.00

DM-500 L=767.00

DM-500 L=777.00

DM-500 L=787.00

DM-500 L=797.00

DM-500 L=807.00

DM-500 L=817.00

DM-500 L=827.00

DM-500 L=837.00

DM-500 L=847.00

DM-500 L=857.00

DM-500 L=867.00

DM-500 L=877.00

DM-500 L=887.00

DM-500 L=897.00

DM-500 L=907.00

DM-500 L=917.00

DM-500 L=927.00

DM-500 L=937.00

DM-500 L=947.00

DM-500 L=957.00

DM-500 L=967.00

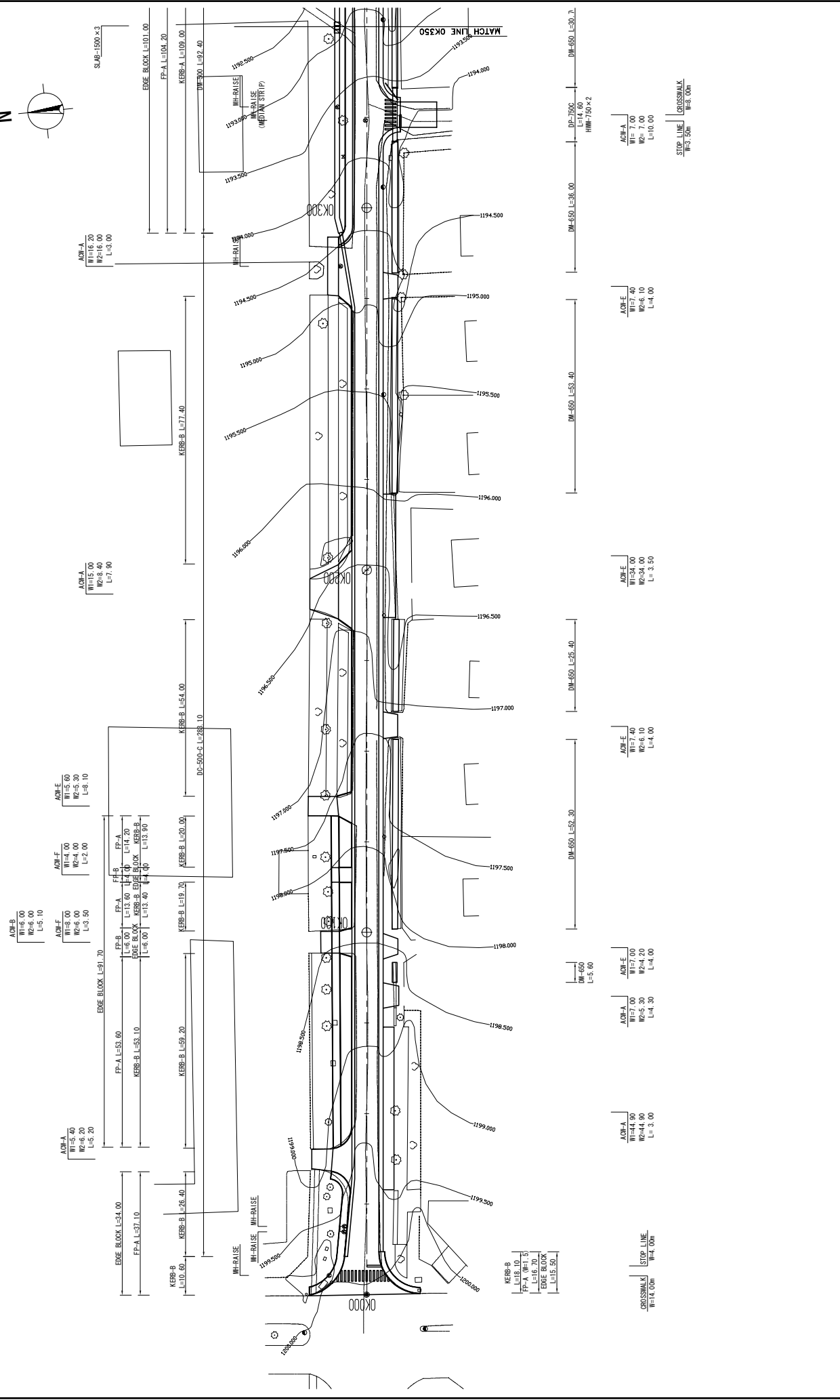
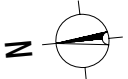
DM-500 L=977.00

DM-500 L=987.00

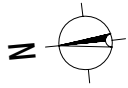
DM-500 L=997.00

DM-500 L=1007.00

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED	SHEET NO PL-47
				DATE		SUBMITTED	



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED	PREPARED CHECKED	DATE	SHEET NO PL-48
					DATE	SUBMITTED		
K7: KANTANTA STREET(1/7)					KATAHIRA & ENGINEERS INTERNATIONAL			



CROSSWALK STOP LINE
W=10.00m
W=3.20m

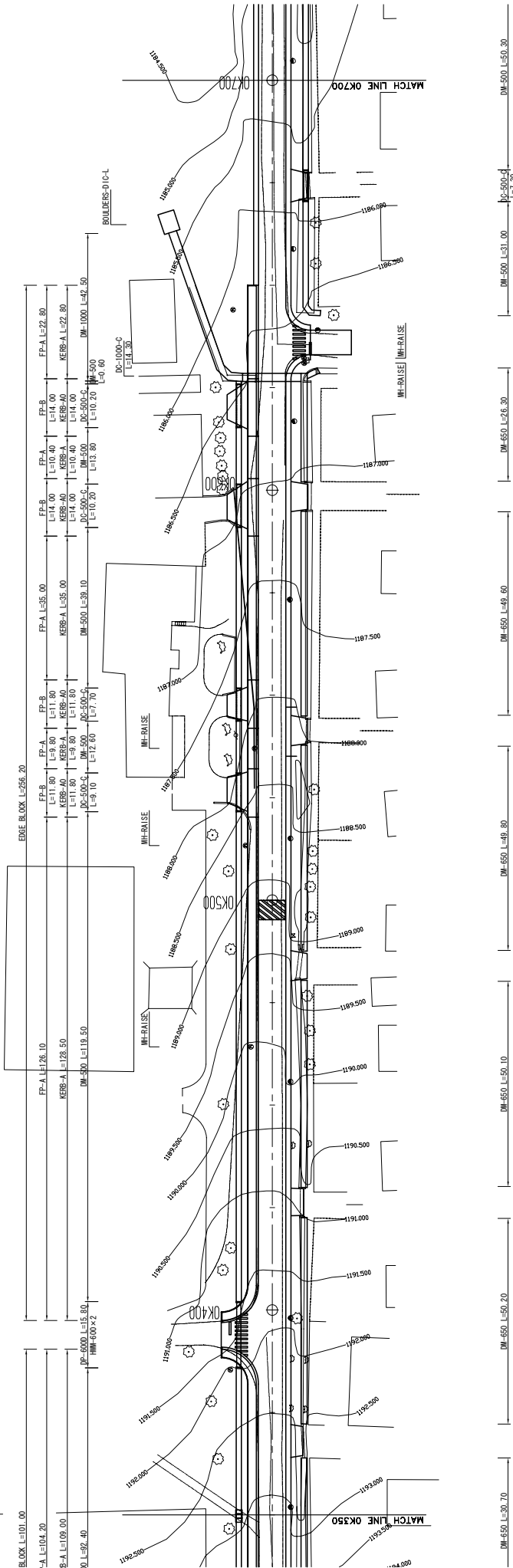
ADM-B
W1=8.30
W2=5.30
L=5.00

ADM-F
W1=11.60
W2=6.10
L=5.00

ADM-B
W1=8.30
W2=5.30
L=5.00

ADM-F
W1=11.60
W2=6.10
L=5.00

HUMP
W=8.40



ADM-F
W1=8.30
W2=6.10
L=3.00

ADM-F
W1=7.00
W2=6.10
L=4.00

ADM-F
W1=7.00
W2=6.10
L=4.00

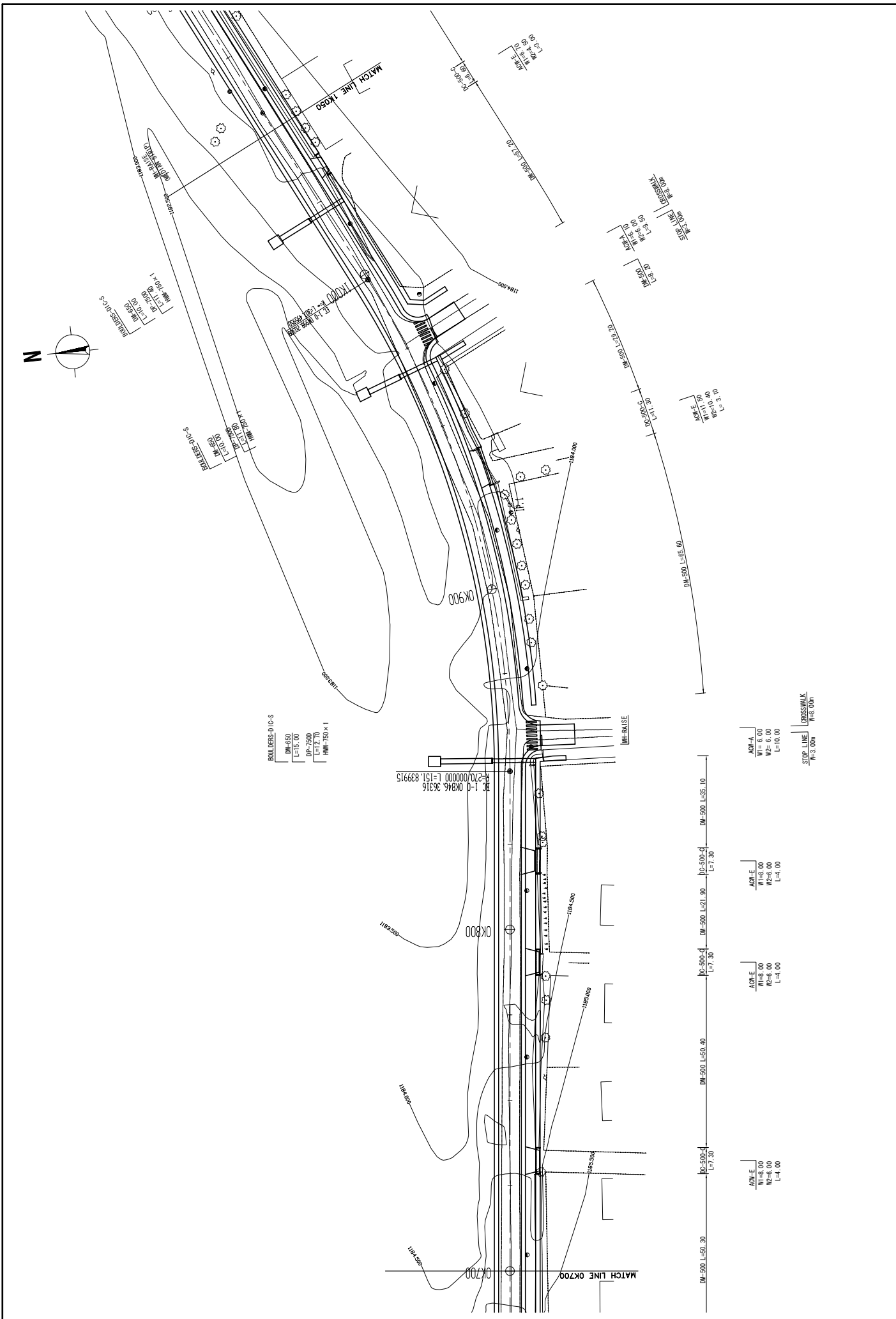
ADM-F
W1=7.00
W2=6.10
L=4.00

ADM-F
W1=7.00
W2=6.10
L=4.00

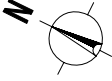
ADM-F
W1=7.00
W2=6.00
L=4.00

STOP LINE CROSSWALK
W=3.00m
W=3.00m

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	DATE	DATE	SHEET NO PL-49
BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA		KATAHIRA & ENGINEERS INTERNATIONAL		SUBMITTED		



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED	DATE	SHEET NO
				S=1:500			SUBMITTED		



AS/LE
WI=8.00
W2=7.00
L=4.00

AS/LE
WI=7.00
W2=5.00
L=4.00

AS/LE
WI=6.00
W2=4.00
L=4.00

HUMP
H=6.40

AS/LE
WI=7.00
W2=5.00
L=4.00

AS/LE
WI=8.70
W2=4.50
L=3.00

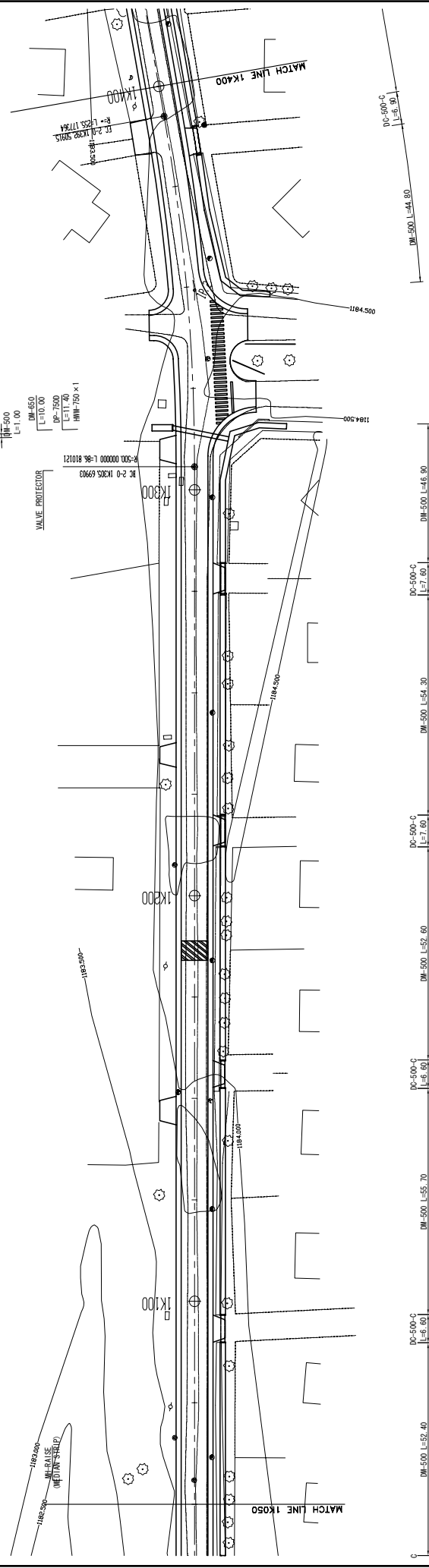
AS/LE
WI=8.70
W2=4.50
L=3.00

AS/LE
WI=7.70
W2=5.50
L=3.00

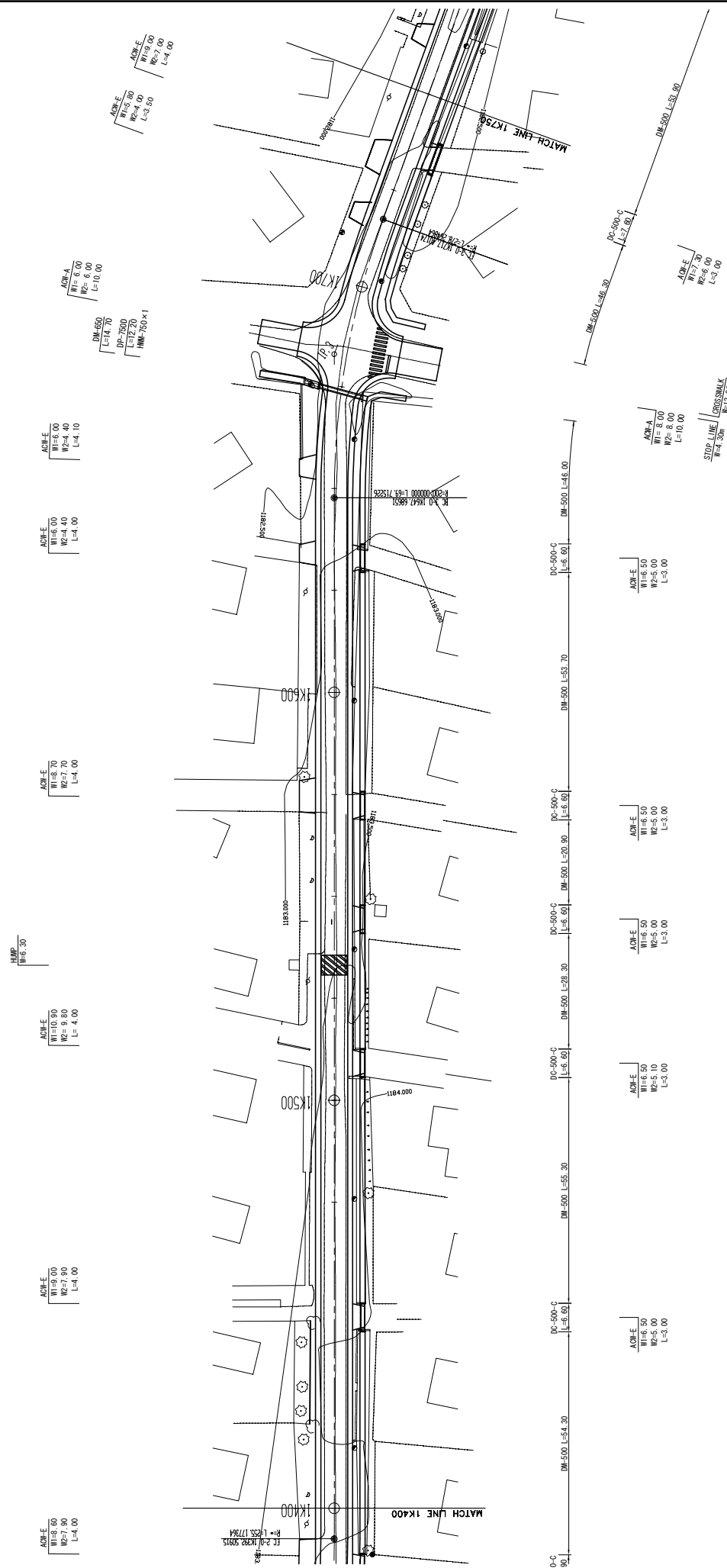
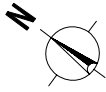
AS/LE
WI=7.70
W2=5.50
L=3.00

STOP LINE
W=7.60m

CROSSWALK
W=30.00m



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF MDDLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED DATE	KATAMBA & ENGINEERS INTERNATIONAL	PREPARED CHECKED	DATE	SHEET NO PL-51
							SUBMITTED		



AOM-E
 W1=8.00
 W2=7.00
 L=4.00

AOM-E
 W1=9.00
 W2=7.90
 L=4.00

AOM-E
 W1=10.90
 W2=9.80
 L=4.00

AOM-E
 W1=8.70
 W2=7.70
 L=4.00

AOM-E
 W1=6.00
 W2=4.40
 L=4.10

AOM-E
 W1=5.00
 W2=4.00
 L=3.50

AOM-E
 W1=3.80
 W2=3.00
 L=3.50

AOM-E
 W1=2.80
 W2=2.00
 L=3.50

AOM-E
 W1=1.80
 W2=1.00
 L=3.50

DM=650 L=14.70
 DP=750 L=17.70
 MM=750 x 1

AOM-A
 W1=6.00
 W2=4.00
 L=10.00

AOM-E
 W1=8.00
 W2=6.00
 L=3.00

AOM-E
 W1=6.00
 W2=4.00
 L=3.00

AOM-E
 W1=6.00
 W2=4.00
 L=3.00

AOM-E
 W1=6.00
 W2=4.00
 L=3.00

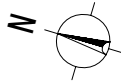
AOM-E
 W1=7.00
 W2=5.00
 L=3.00

AOM-E
 W1=7.00
 W2=5.00
 L=3.00

STOP LINE
 W=4.30M
 CROSSWALK
 W=7.00M

0-C 90
 DM-500 L=54.30
 DC-500-C L=6.60
 DM-500 L=55.30
 DC-500-C L=6.60
 DM-500 L=28.30
 DC-500-C L=6.60
 DM-500 L=20.90
 DC-500-C L=6.60
 DM-500 L=53.70
 DC-500-C L=6.60
 DM-500 L=48.00

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	S=1:500	APPROVED	PREPARED CHECKED	DATE	SHEET NO
						DATE	SUBMITTED		
			K7: KANTANTA STREET(S/7)				KATAHIRA & ENGINEERS INTERNATIONAL		PL-52



AW-E
W1=5.00
W2=4.00
L=4.00

AW-E
W1=6.00
W2=6.00
L=10.00

DM=650
L=13.90
DP=1500
L=33.50
HM=150 x 1

AW-E
W1=8.10
W2=6.30
L=4.00

AW-E
W1=5.40
W2=3.30
L=4.00

AW-E
W1=5.70
W2=3.90
L=4.00

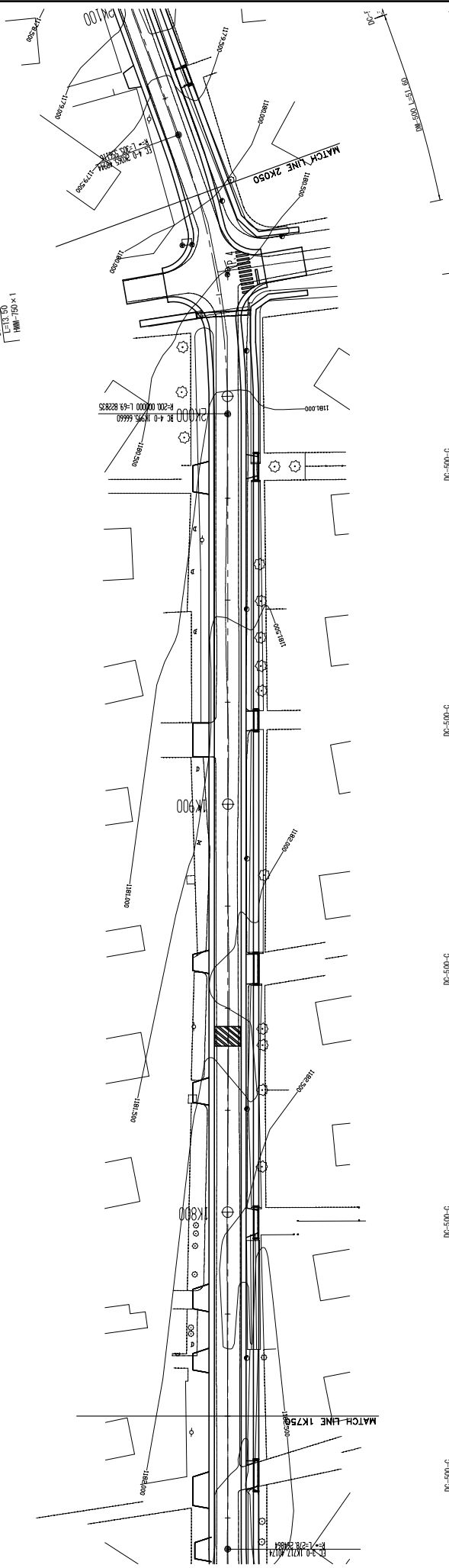
HUMP
W=3.30

AW-E
W1=5.80
W2=4.80
L=4.00

AW-E
W1=6.80
W2=4.80
L=4.00

AW-E
W1=5.00
W2=4.00
L=4.00

AW-E
W1=5.80
W2=4.00
L=3.50



AW-E
W1=7.30
W2=5.40
L=3.00

AW-E
W1=7.30
W2=5.40
L=3.00

AW-E
W1=4.80
W2=4.70
L=3.00

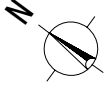
AW-E
W1=5.90
W2=4.70
L=3.00

AW-E
W1=4.00
W2=1.00
L=10.00

CROSSWALKS
W=3.00M
W=10.00M

X0 L=46.30 DC-500-C L=7.60 DM-500 L=53.90 DC-500-C L=7.60 DM-500 L=54.20 DC-500-C L=7.60 DM-500 L=54.10 DC-500-C L=5.20 DM-500 L=56.00 DC-500-C L=6.50 DM-500 L=49.70 DC-1 DM-500 L=11.80

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KATWE CITY ROADS THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED DATE	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED	DATE	SHEET NO PL-53
							SUBMITTED		



AOM-A
 W1= 6.00
 W2= 6.00
 W3= 10.00
 L=3.00
 DM-650
 DP=7500
 L=13.30
 HW=750 x 1

AOM-E
 W1= 5.50
 W2= 4.00
 W3= 5.00
 L=3.00

AOM-E
 W1= 5.50
 W2= 4.00
 W3= 5.00
 L=3.00

HUMP
 HW=6.30
 AOM-E
 W1= 5.50
 W2= 4.00
 W3= 5.00
 L=3.00

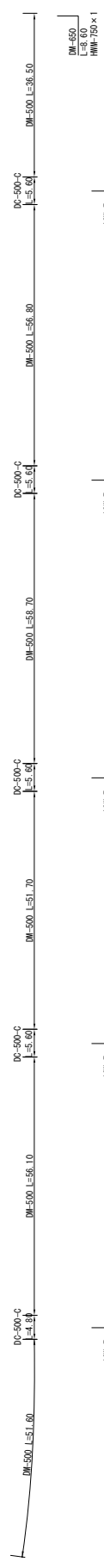
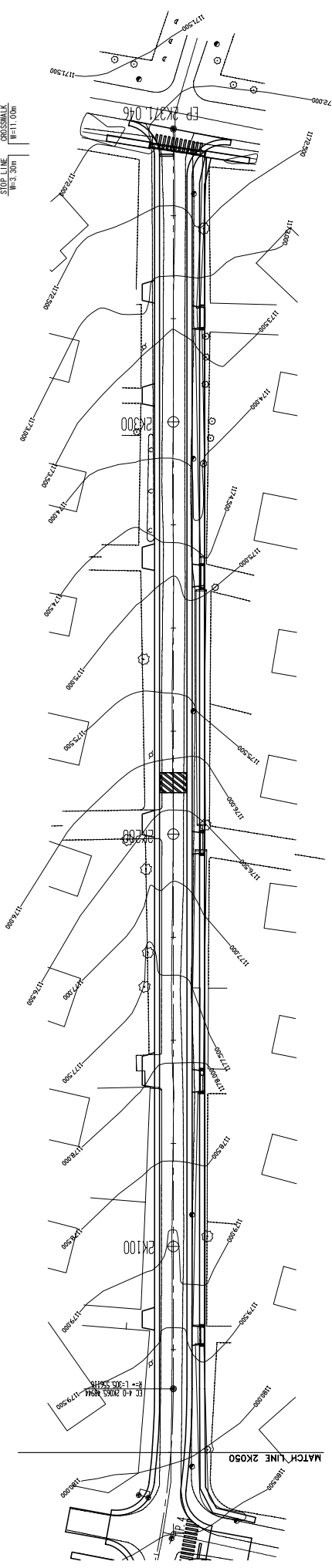
AOM-E
 W1= 5.50
 W2= 4.00
 W3= 5.00
 L=3.00

AOM-E
 W1= 5.50
 W2= 4.00
 W3= 5.00
 L=3.00

AOM-E
 W1= 5.50
 W2= 4.00
 W3= 5.00
 L=3.00

DM-650
 DP=7500
 L=10.50
 HW=750 x 1

STOP LINE
 HW=3.50m
 CROSSWALK
 HW=11.00m



AOM-E
 W1= 4.80
 W2= 4.00
 W3= 5.00
 L=3.00

AOM-E
 W1= 5.60
 W2= 4.80
 W3= 5.00
 L=3.00

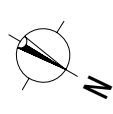
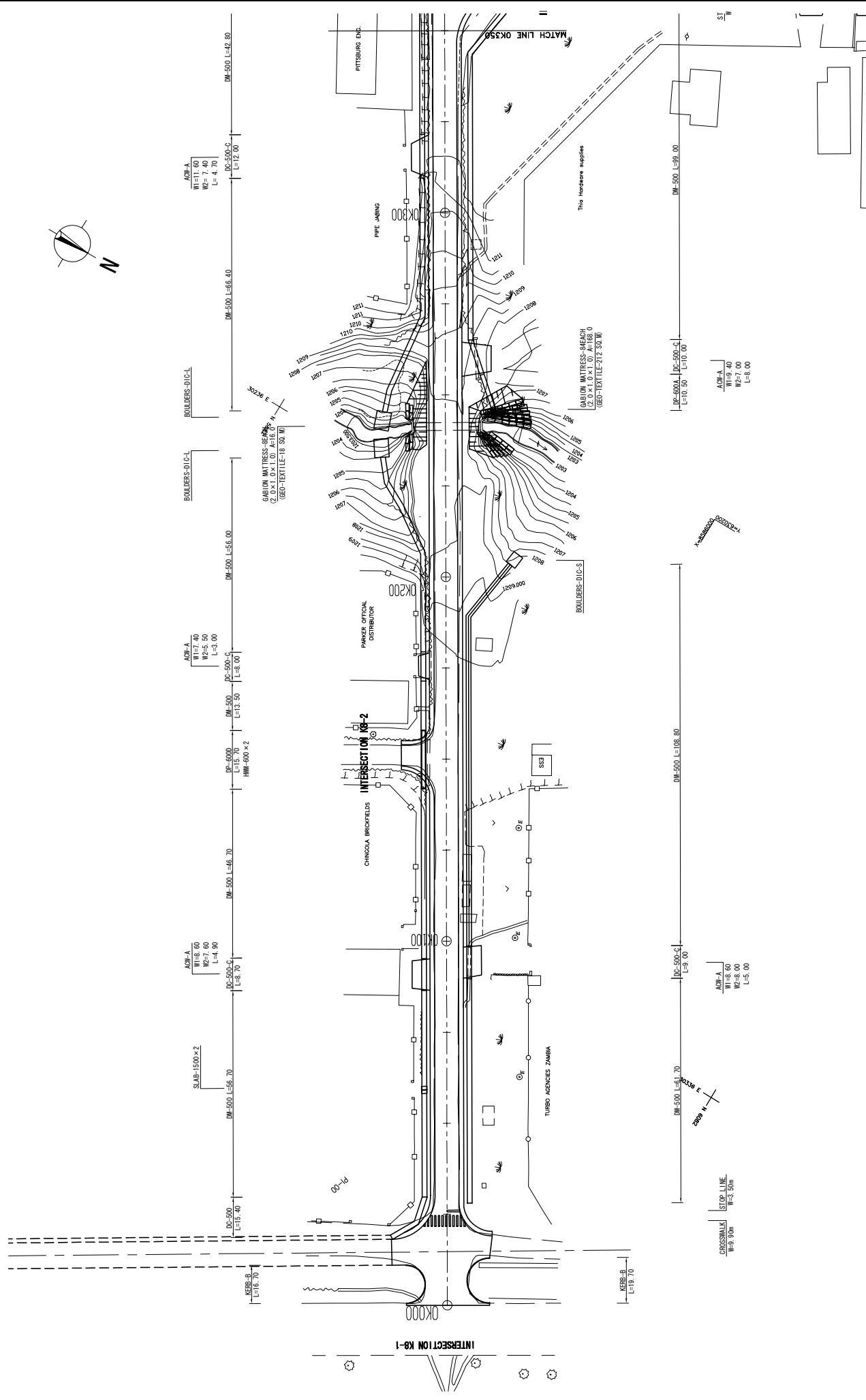
AOM-E
 W1= 5.60
 W2= 4.80
 W3= 5.00
 L=3.00

AOM-E
 W1= 5.60
 W2= 4.80
 W3= 5.00
 L=3.00

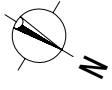
AOM-E
 W1= 5.50
 W2= 4.80
 W3= 5.00
 L=3.00

DM-650
 HW=750 x 1

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	DATE	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED	DATE	SHEET NO
				S=1:500				SUBMITTED		



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1500	APPROVED DATE	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED	DATE	SHEET NO
						SUBMITTED		
BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NODDA AND NATWANGE CITY ROADS IN THE REPUBLIC OF ZAMBIA		K8: NATWANGE ROAD (1/3)						



ACW-A
W=12.00
L=4.40

DM-500 L=42.80
DC-500-C L=12.00

STOP LINE
W=3.40m

DM-500 L=18.90
L=9.30

DM-500 L=55.80

DP-6000 L=4.30
HMM-600 x 1

ACW-A
W=9.60
L=4.00

DM-500 L=63.80

DP-6000 L=10.80

SLAB FOR RAILWAY CROSSING
FOR CARRIAGEWAY W=9.10

ACW-C
W=9.60
L=4.00

STOP LINE
W=3.40m

DM-500 L=21.80

DP-6000 L=13.90

STOP LINE
W=3.40m

ACW-E
W=7.80
L=3.20

ACW-F
W=7.80
L=4.40

DM-500 L=166.60

ACW-E
W=7.80
L=3.00

ACW-F
W=7.80
L=4.40

ACW-E
W=9.70
L=4.40

DM-500 L=51.00

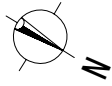
DP-6000 L=13.90

STOP LINE
W=3.40m

DM-500 L=21.80

DP-6000 L=13.90

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED DATE	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED SUBMITTED	DATE	SHEET NO
							K8: NAT'WANGE ROAD (2/3)	PL-56



STOP LINE
W=3.00m
CROSSWALK
W=3.00m

ALPH-E
W=7.20
W=7.20
W=7.20
L=3.00

ALPH-A
W=8.80
W=8.80
W=8.80
L=3.00

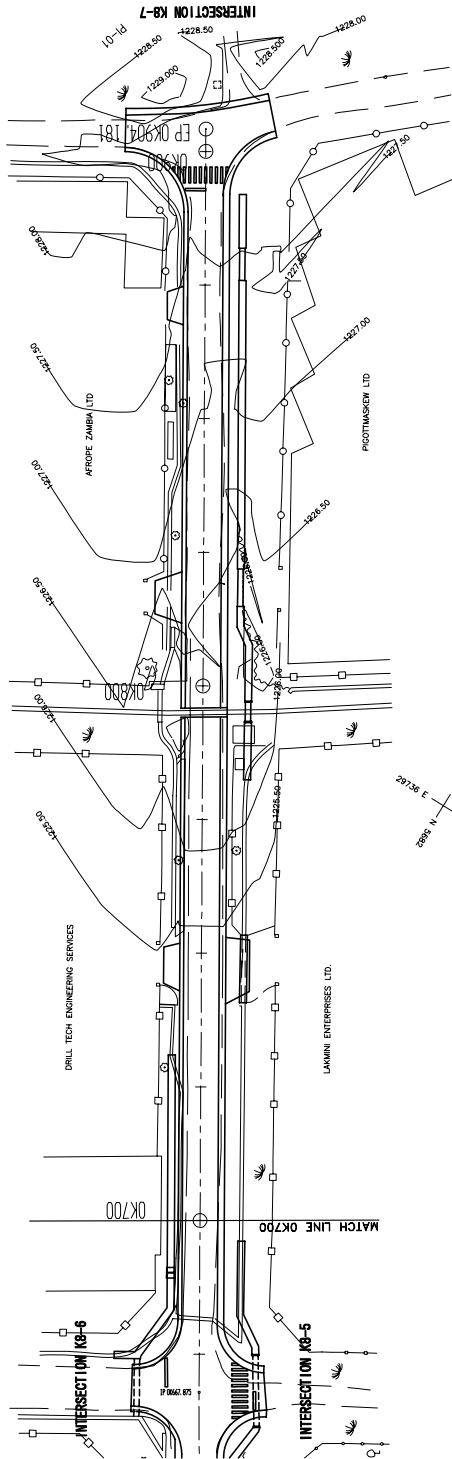
ALPH-E
W=8.80
W=8.80
W=8.80
L=3.00

SLAB-1500x2
DM-500 L=63.80

STOP LINE
W=3.40m
CROSSWALK
W=3.40m

ALPH-A
W=7.20
W=7.20
W=7.20
L=3.00

SLAB FOR RAILWAY CROSSING
FOR CARRIAGEWAY W=3.60



DM-500 L=51.00
DM-500 L=22.60
L=6.00

DM-500 L=18.10
DM-500 L=7.00
L=7.00

DM-500 L=72.00
DM-500 L=21.80
L=7.00

DM-500 L=21.80
DM-500 L=21.80
L=7.00

DM-500 L=21.80
DM-500 L=21.80
L=7.00

DM-500 L=21.80
DM-500 L=21.80
L=7.00

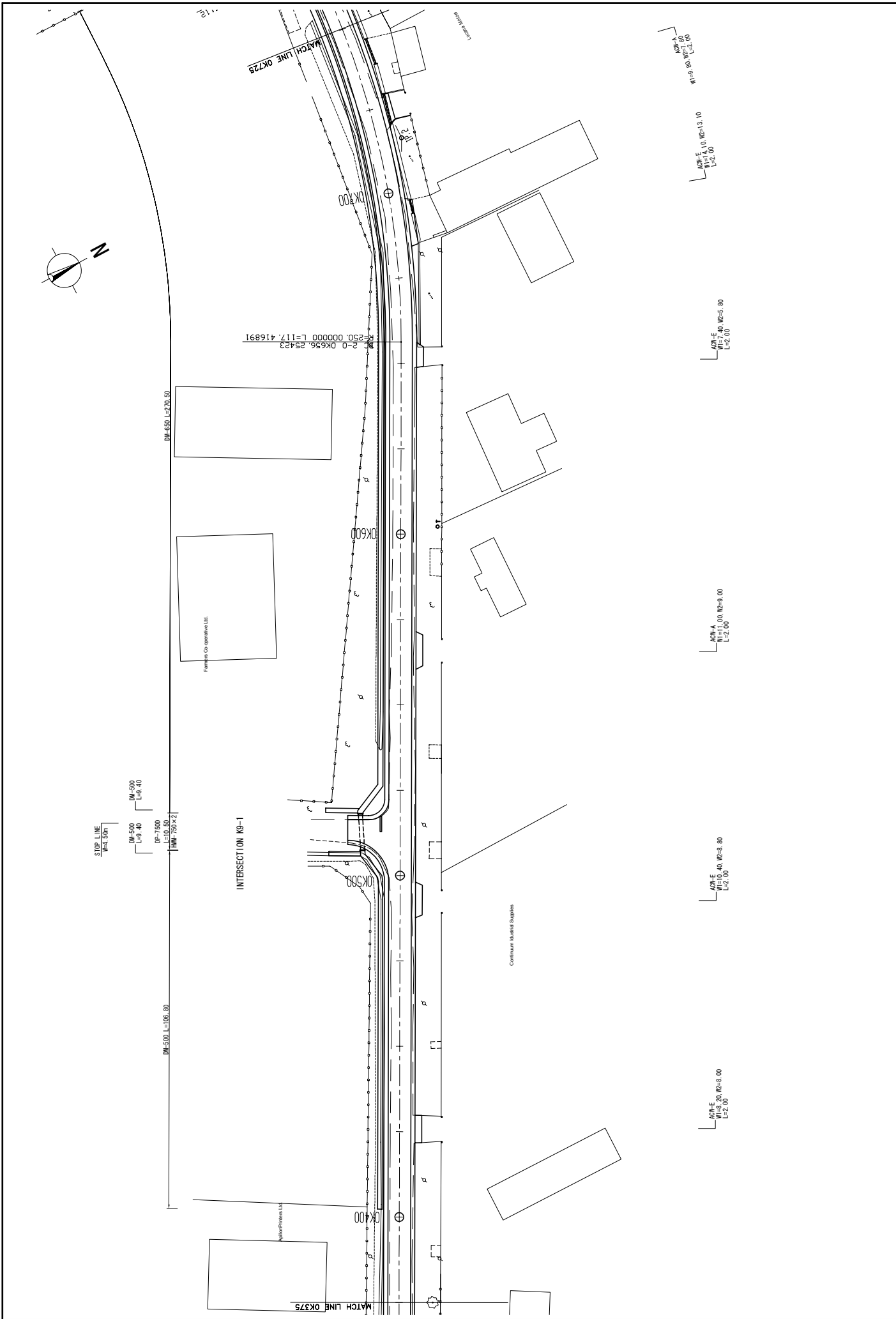
DM-500 L=21.80
DM-500 L=21.80
L=7.00

ALPH-A
W=7.20
W=7.20
W=7.20
L=3.00

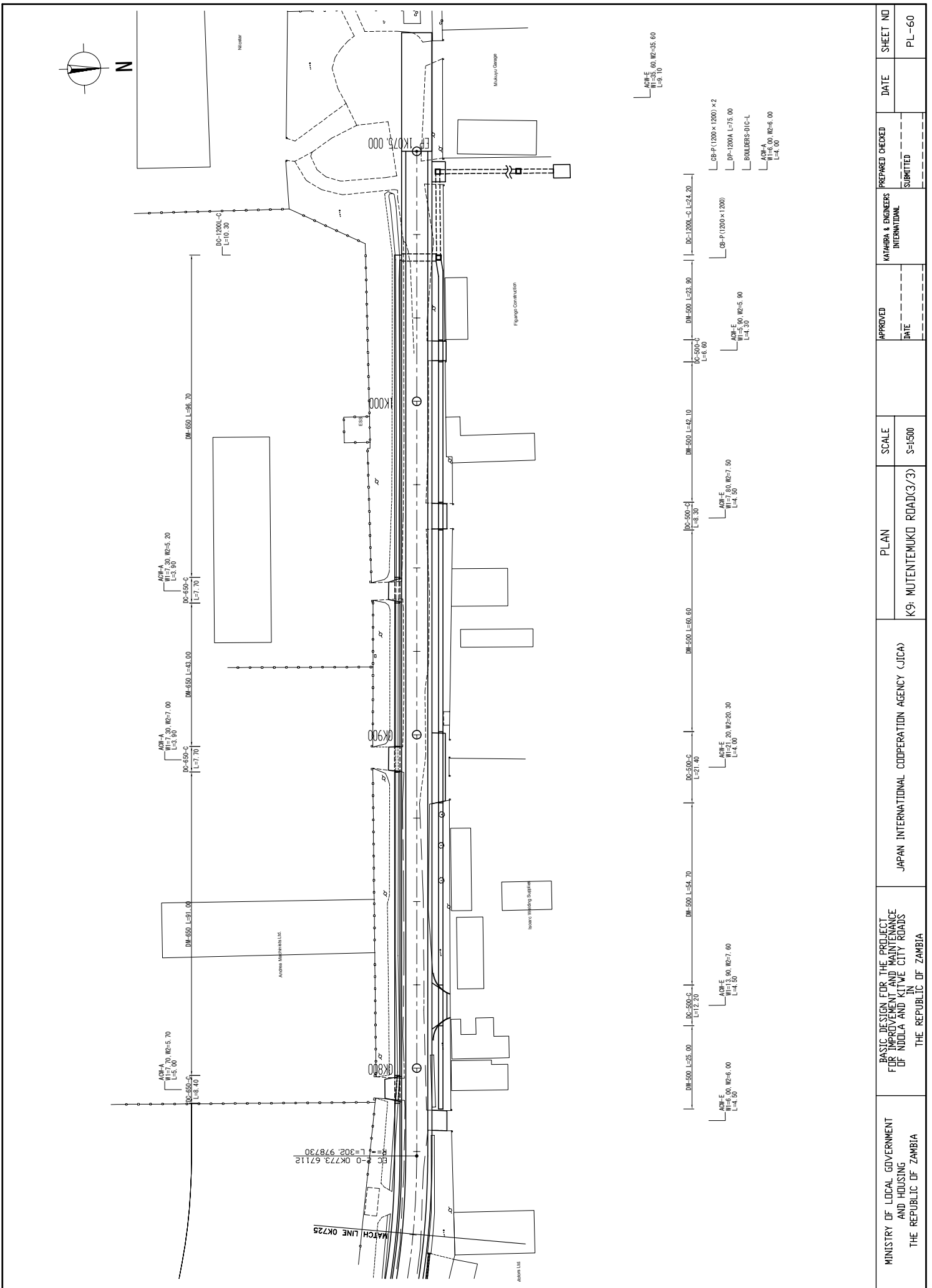
ALPH-A
W=7.20
W=7.20
W=7.20
L=3.00

ALPH-A
W=7.20
W=7.20
W=7.20
L=3.00

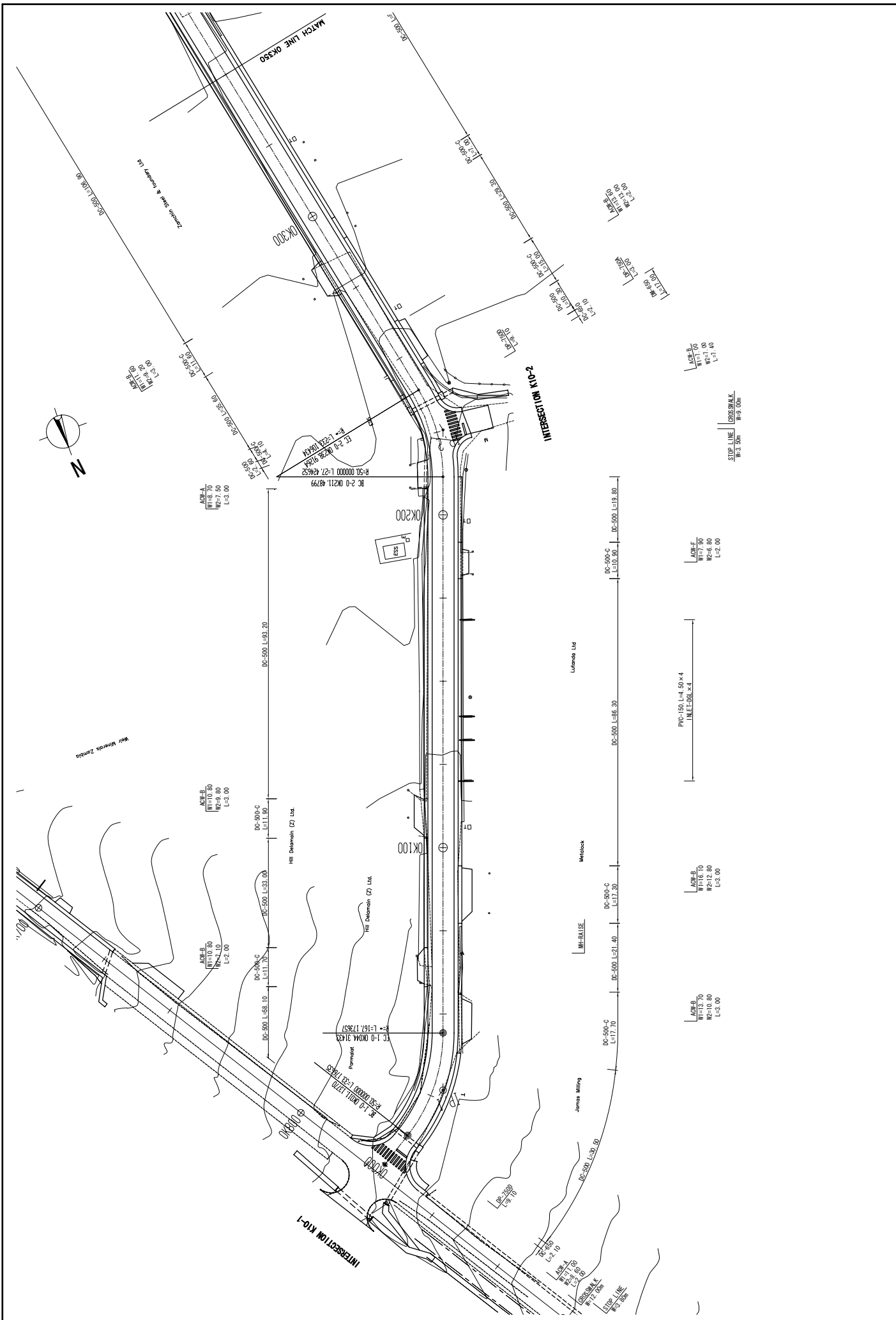
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NODDA AND NATVANGE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED DATE	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED SUBMITTED	DATE	SHEET NO PL-57
				K8: NATVANGE ROAD (3/3)					



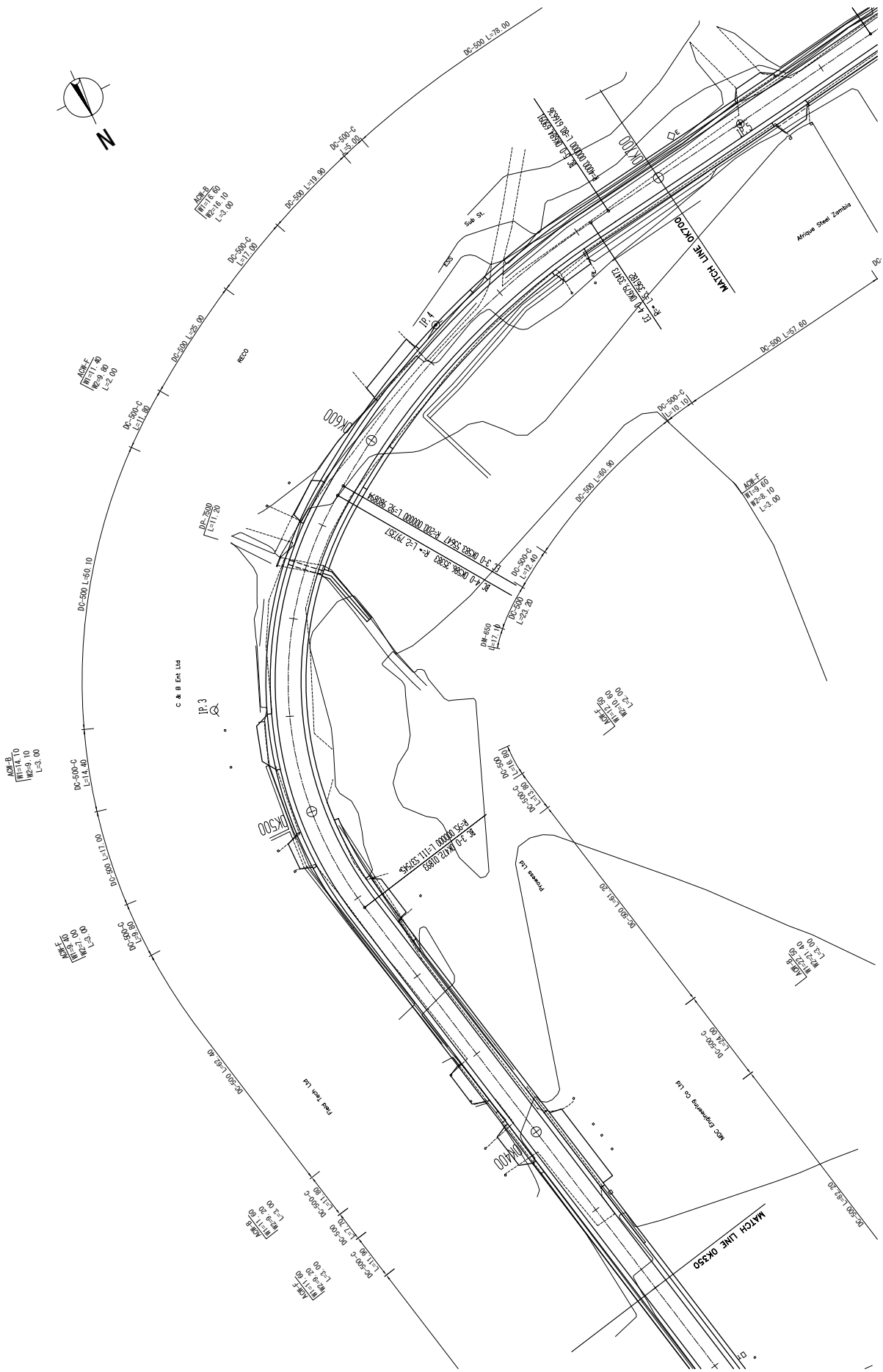
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	S=1:500	APPROVED DATE	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED SUBMITTED	DATE	SHEET NO
										PL-59



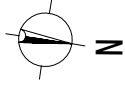
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED	DATE	SHEET NO
						SUBMITTED		
BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA		K9: MUTEMUKO ROAD(3/3)		S=1500				



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED	PREPARED CHECKED	DATE	SHEET NO
					DATE	SUBMITTED		
		KATAHIRA & ENGINEERS INTERNATIONAL					PL-61	



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED	PREPARED CHECKED	DATE	SHEET NO
					DATE	SUBMITTED		PL-62



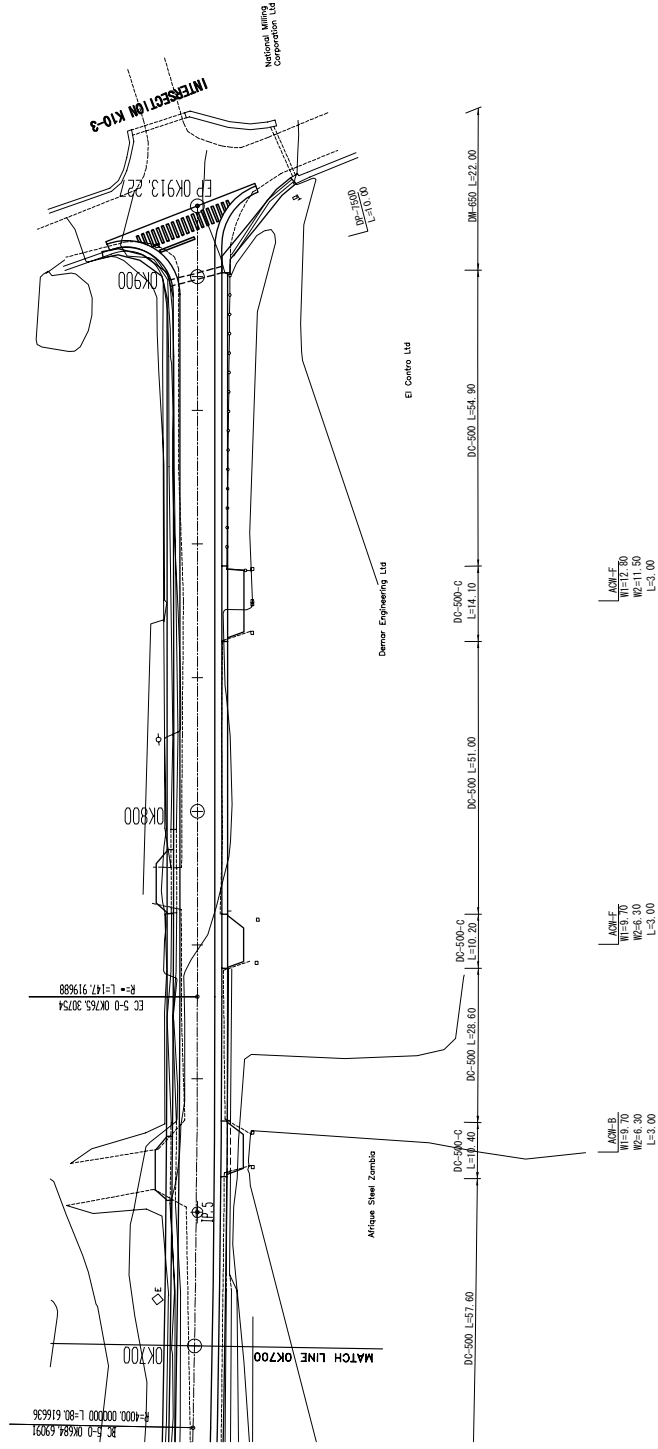
STOP LINE
W=7.00m

CROSSWALK
W=18.00m

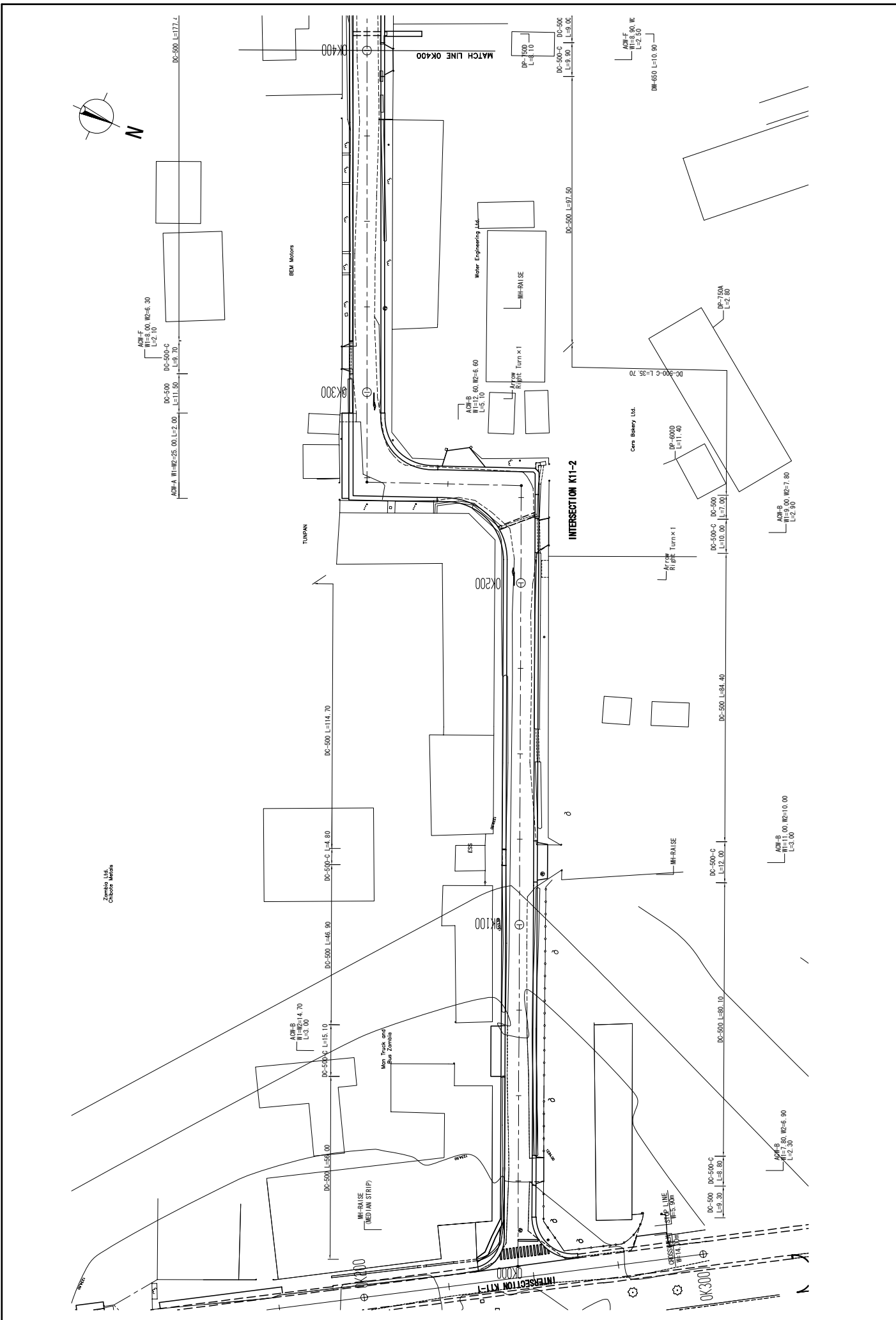
AQW-B
W=12.30
W2=7.40
L=2.00

AQW-F
W=12.30
W2=7.40
L=2.00

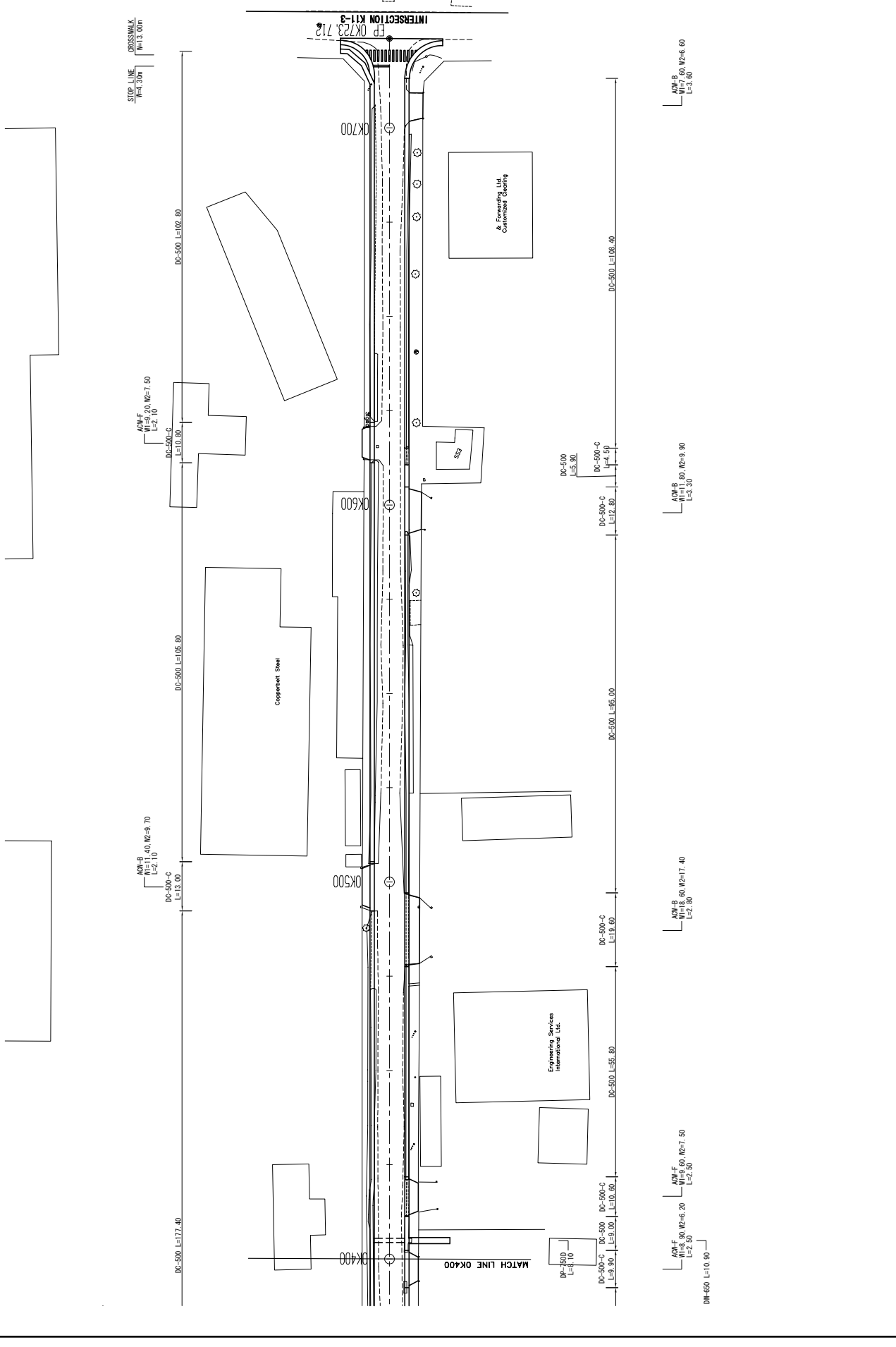
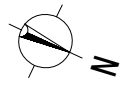
0+0 L=75.00 DC-500-C L=12.00 DC-500 L=120.50

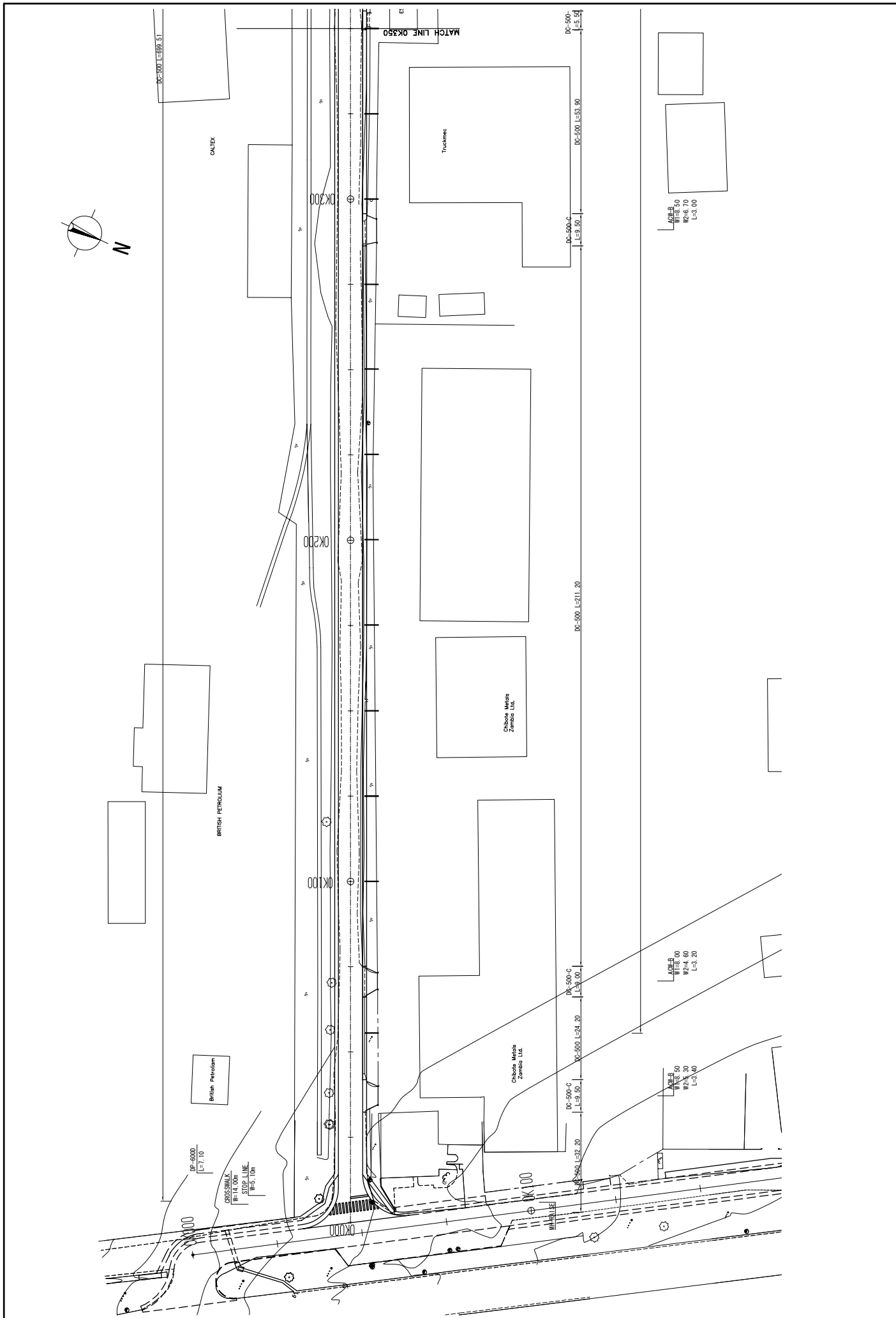


MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED	KATAMBA & ENGINEERS INTERNATIONAL	PREPARED CHECKED	DATE	SHEET NO PL-63
BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA		K10: MISESHI STREET (3/3)		DATE				

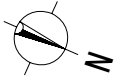


MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED DATE	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED SUBMITTED	DATE	SHEET NO PL-64
		K11- KANDGESHA ROAD (1/2)	S=1:500					





MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1500	APPROVED DATE	KATAJIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED	SHEET NO
							SUBMITTED	PL-66



DC-650 DC-650 DC-650
L=1.50 L=1.50 L=1.50
L=6.00 L=6.00
HMC-750 x 2 HMC-750 x 2

STOP LINE
W=3.80W
H=10.00m

Total

OK500

OK500

OK400

MATCH LINE OK350

gmc LOGISTICS (Z) LTD.

INDUSTRIAL EQUIPMENT

KITWE REPAIRS

SCAW LTD.

DC-500-C
L=20.00

DC-500-C
L=81.50

DC-500-C
L=14.40

DC-500-C
L=51.20

DC-500-C
L=11.90

DC-500-C
L=59.50

DC-500-C
L=10.00

DB-7500
L=7.10

PVC-150 L=4.00 x 23=92.0m
TINLET-DBEL X 23

AGILE
W=10.00
H=2.80
L=3.80

AGILE
W=13.40
H=2.80
L=3.80

AGILE
W=10.90
H=2.80
L=3.40

AGILE
W=8.00
H=2.80
L=3.80

Copperbelt Steel

MINISTRY OF LOCAL GOVERNMENT
AND HOUSING
THE REPUBLIC OF ZAMBIA

BASIC DESIGN FOR THE PROJECT
FOR IMPROVEMENT AND MAINTENANCE
OF NDOLA AND KITWE CITY ROADS
IN
THE REPUBLIC OF ZAMBIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PLAN
K12: MULILAKWENDA ROAD (2/2)

SCALE
S=1500

APPROVED

DATE

KATAHIRA & ENGINEERS
INTERNATIONAL

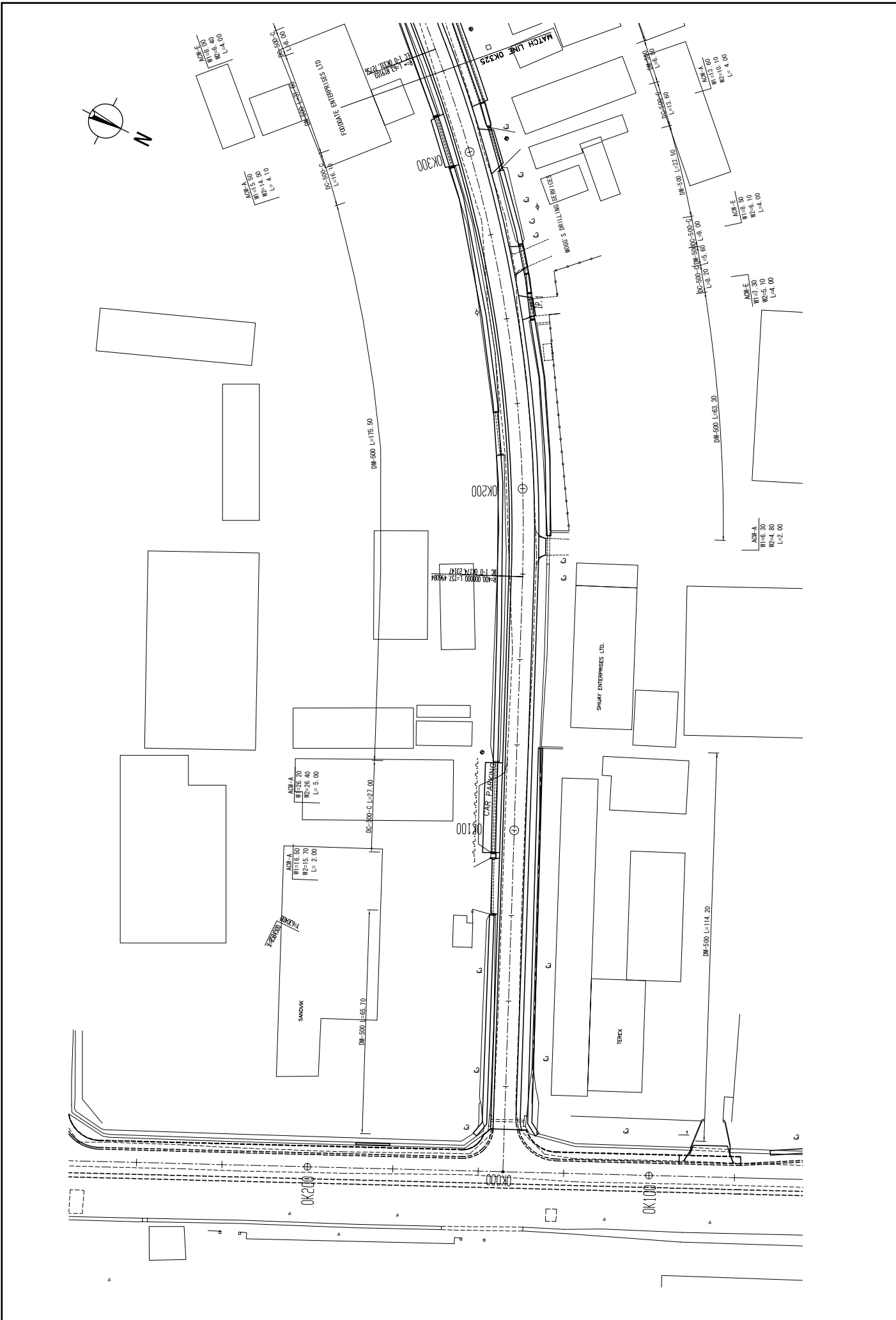
PREPARED CHECKED

SUBMITTED

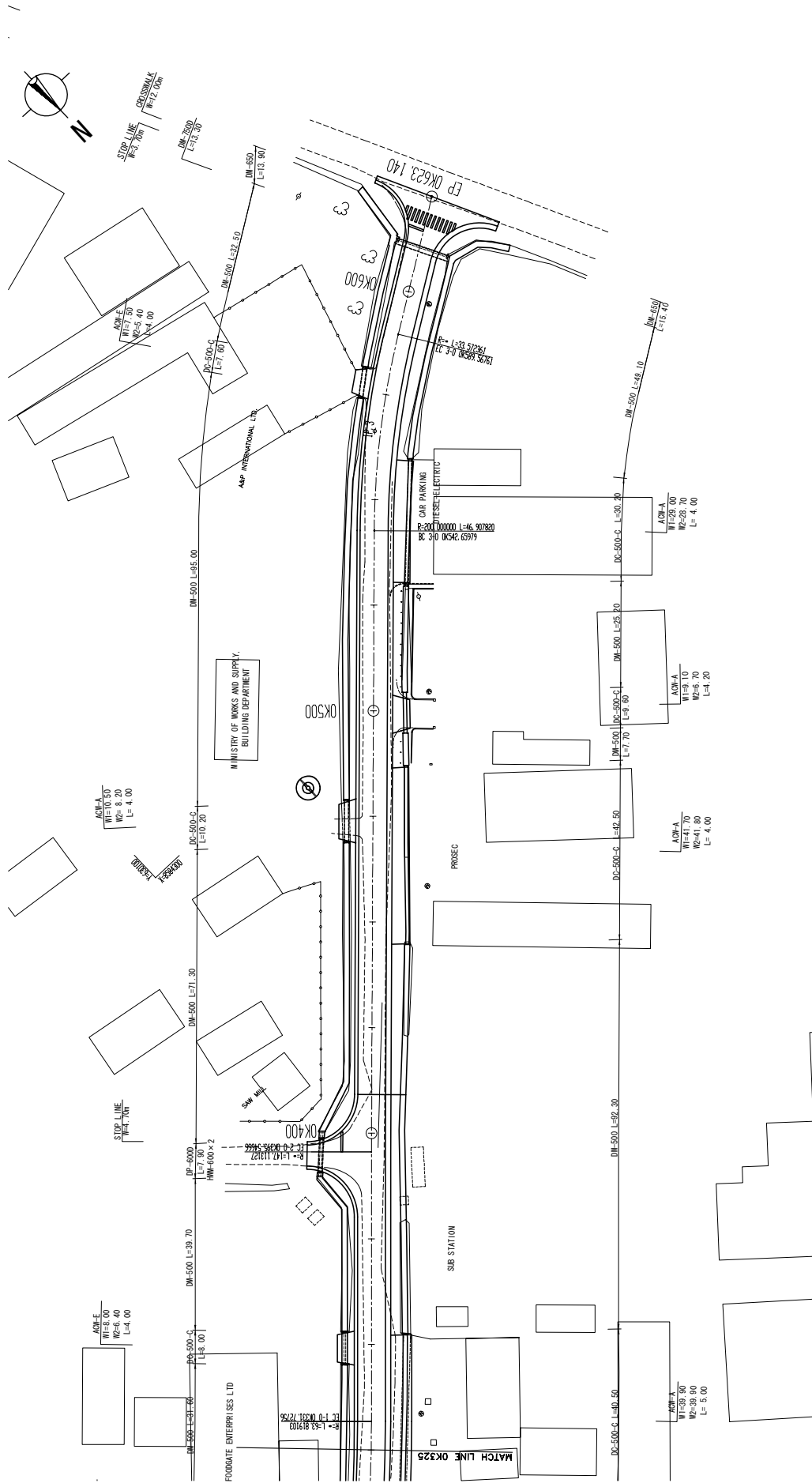
DATE

SHEET NO

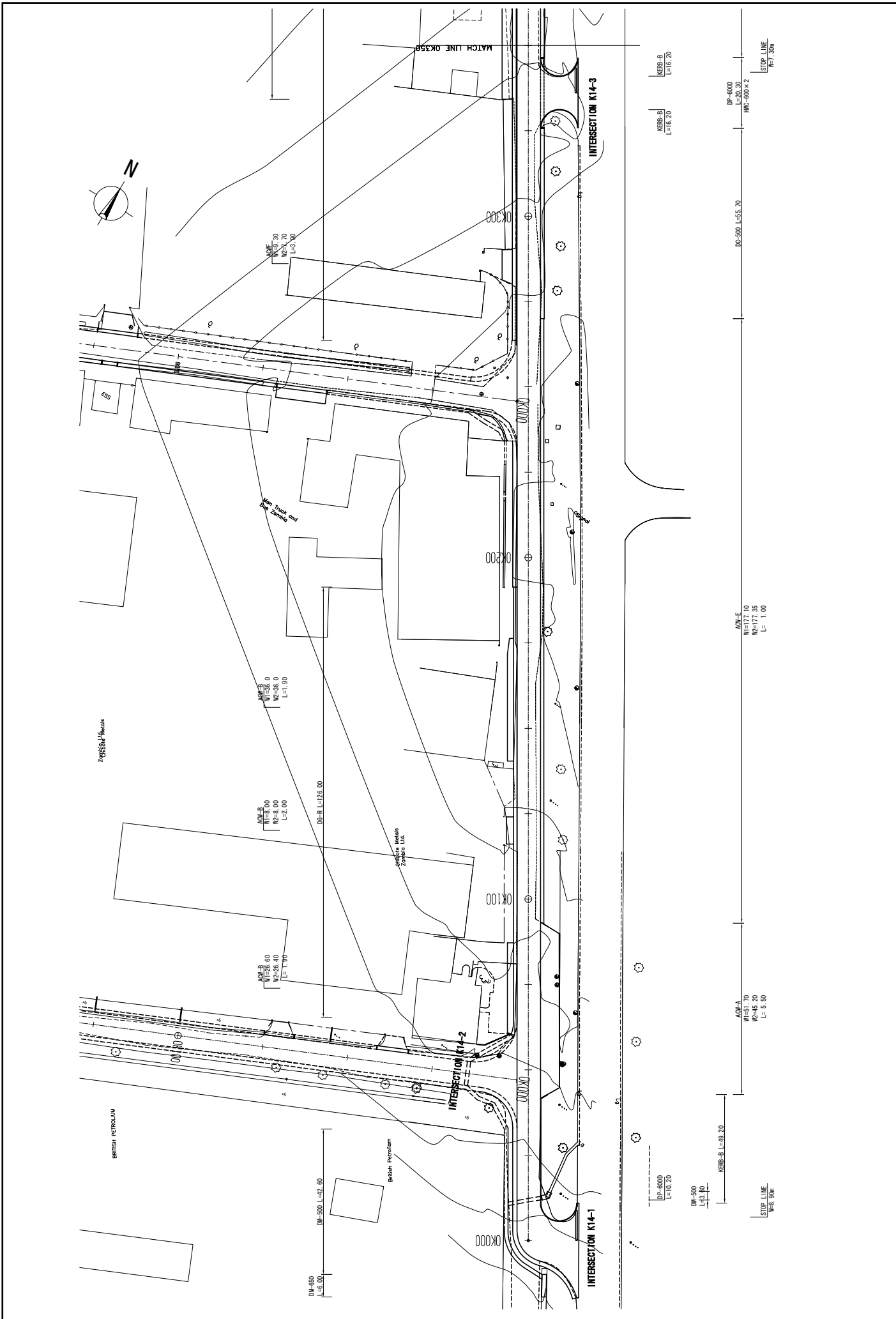
PL-67



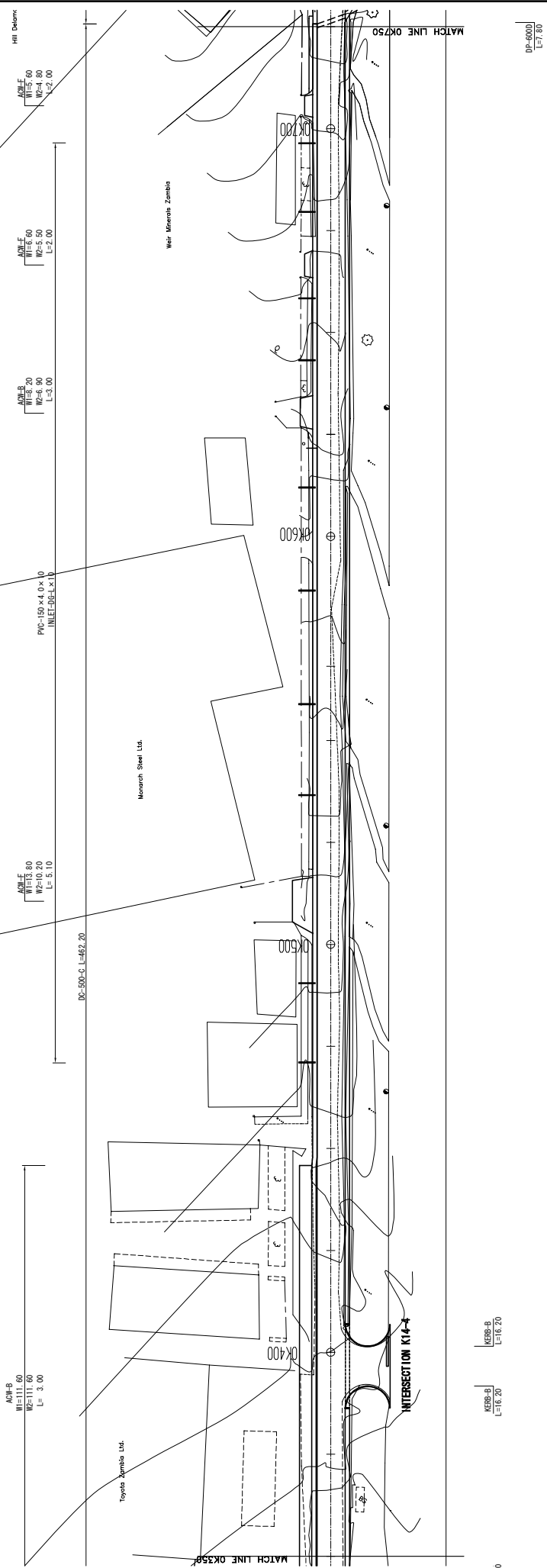
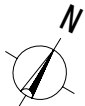
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KATWE CITY ROADS THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED	DATE	SHEET NO
					DATE		SUBMITTED		
			K13: LILLOGWE ROAD (1/2)	S=1:500					PL-68



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF MDDLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	K13: LILOGWE ROAD (2/2)	SCALE S=1:500	APPROVED DATE	PREPARED CHECKED SUBMITTED	DATE	SHEET NO PL-69
									KATAHIRA & ENGINEERS INTERNATIONAL



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KITWE CITY ROADS THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN		SCALE S=1:500	APPROVED DATE	PREPARED CHECKED SUBMITTED	DATE	SHEET NO PL-70
			K14: INDEPENDENCE SERVICE LINE (1/3)						



ACH-B
W=111.60
L=3.00

ACH-B
W=118.80
L=2.10

ACH-B
W=118.20
L=3.00

ACH-B
W=118.60
L=2.00

ACH-B
W=118.60
L=2.00

ACH-E
W=117.60
L=16.20

DC-500-L-329.50

DC-500-L-39.80

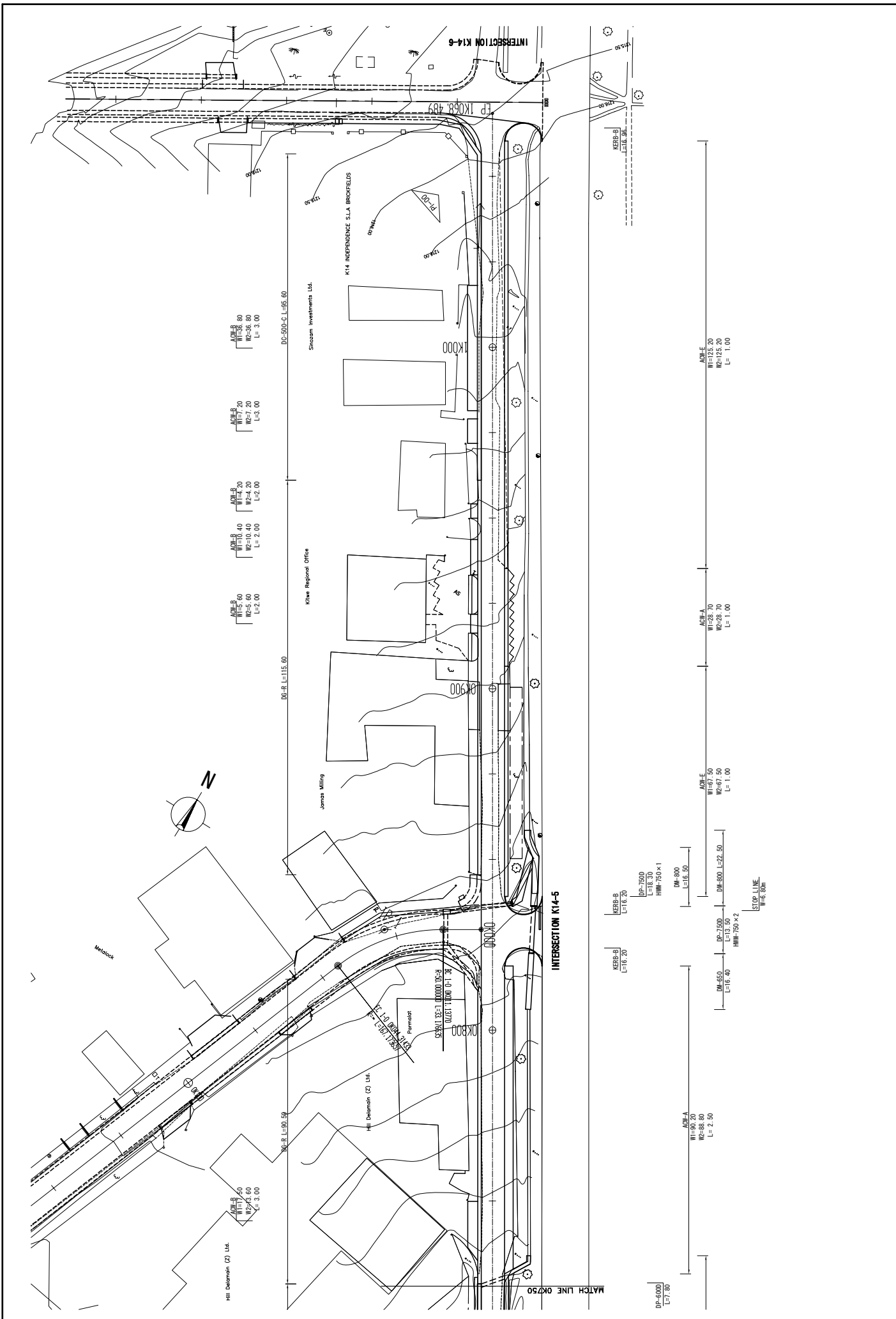
DP=6000
L=50.30

HMC-600 x 2

STOP LINE
W=7.30m

LINE
W=7.30m

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED	DATE	SHEET NO



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED DATE	KATAHIRA & ENGINEERS INTERNATIONAL	PREPARED CHECKED	DATE	SHEET NO PL-72
						SUBMITTED		