

8. Underground Utility Location Map and Relocation Plan

SUMMARY OF LOCATION NUMBERS OF RELOCATION OF UNDERGROUND UTILITY

NDOLA CITY ROADS

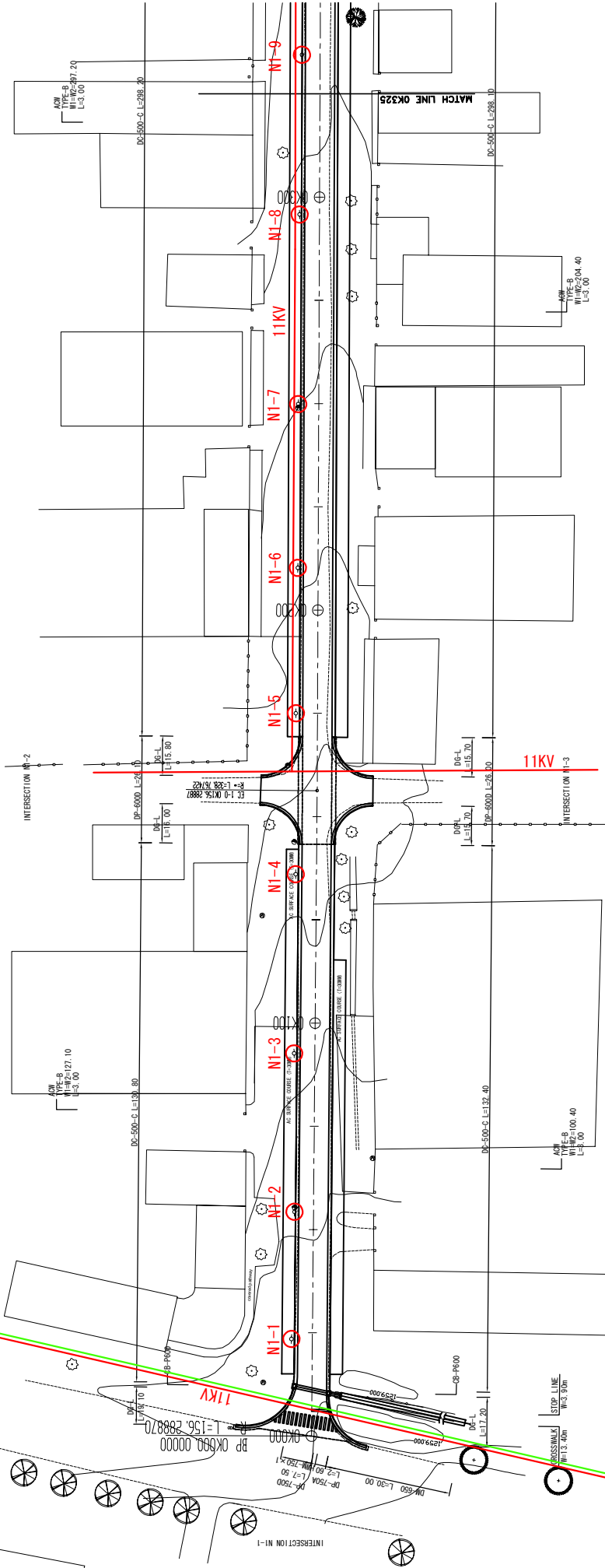
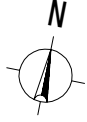
Road No.	Road Name	Power Cable	Telephone Cable	Water Pipe
N1	Vitanda Street	0	1	0
N2	Kaunda Drive	1	1	1
N3	Makoli Avenue	5	4	2
N4	Independence Way	1	0	1
N5	Zambia Road	25	8	5
N6	Matelo Road	1	0	4
N7	Lukasu Road	3	2	2
N8	Chambeshi Road	3	0	16
N9	Livingstone Road	2	0	1
Total		41	16	32
		89		

Note:

The figures show the number of spots where underground utilities are possibly required to be relocated due to conflicts between the utilities and the planned drainage structures. It is possible that more underground utilities exist and are required to be relocated.

KITWE CITY ROADS

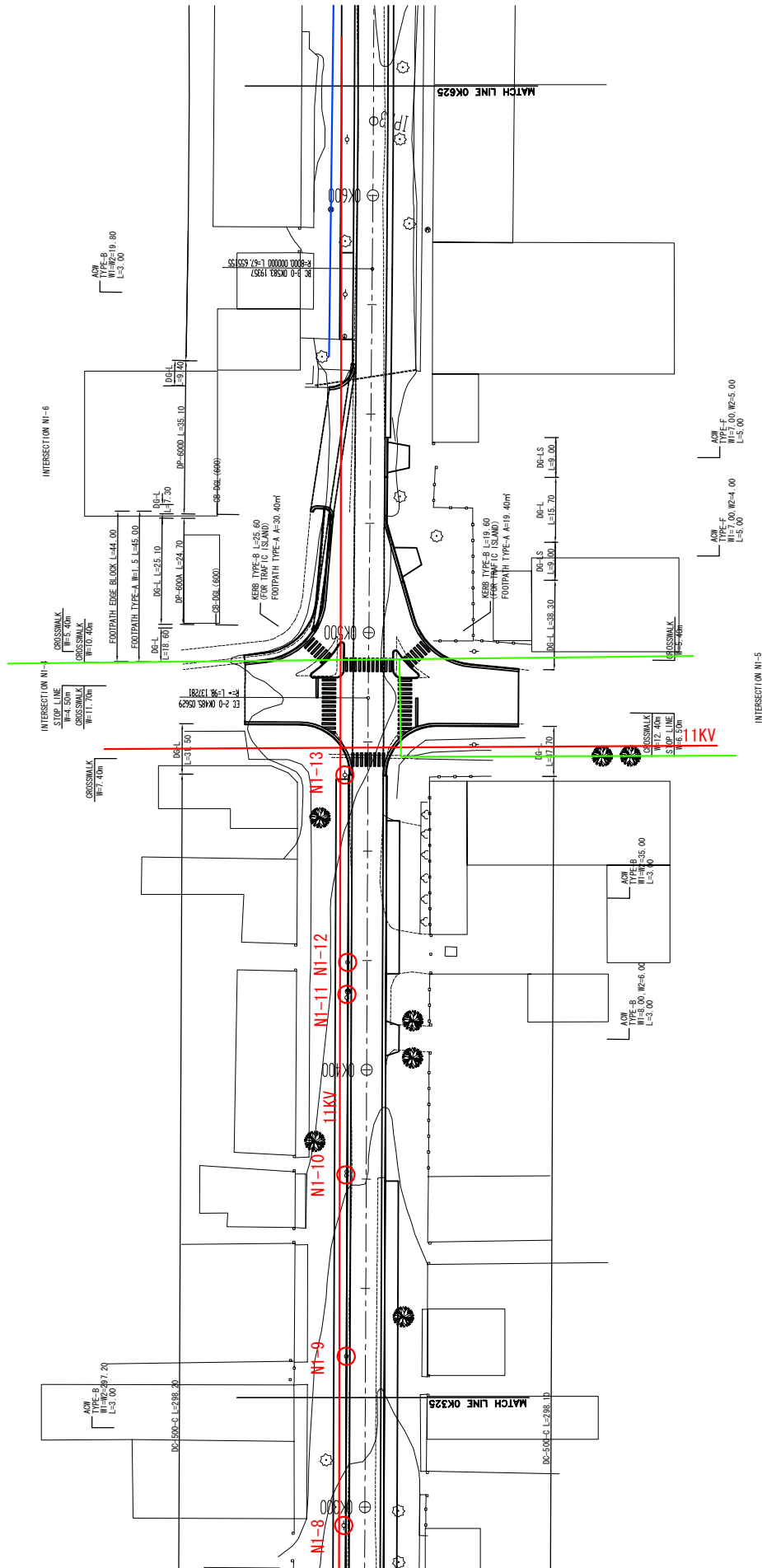
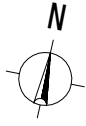
Road No.	Road Name	Power Cable	Telephone Cable	Water Pipe
K1	Dr. Aggrey Avenue	0	0	0
K2	Euclid Road	1	1	5
K3	Zomba Road	6	3	6
K4	Blantyre Road	1	1	7
K5	Eshowe Road	4	0	3
K6	Matuka Avenue	1	0	4
K7	Kantanta Street	7	8	23
K8	Natwange Road	8	2	1
K9	Mutentemuko Road	3	3	7
K10	Miseshi Street	8	8	10
K11	Kanongesha Road	4	2	10
K12	Mulilakwanda Road	2	2	2
K13	Lilogwe Road	4	0	1
K14	Independence Service Lane	3	1	6
Total		52	31	85
		168		



—	: Power Cable
—	: Telephone Cable
—	: Water Pipe
●	: Conflict Point

○ : Power poles to be temporarily supported during excavation for the side ditch.

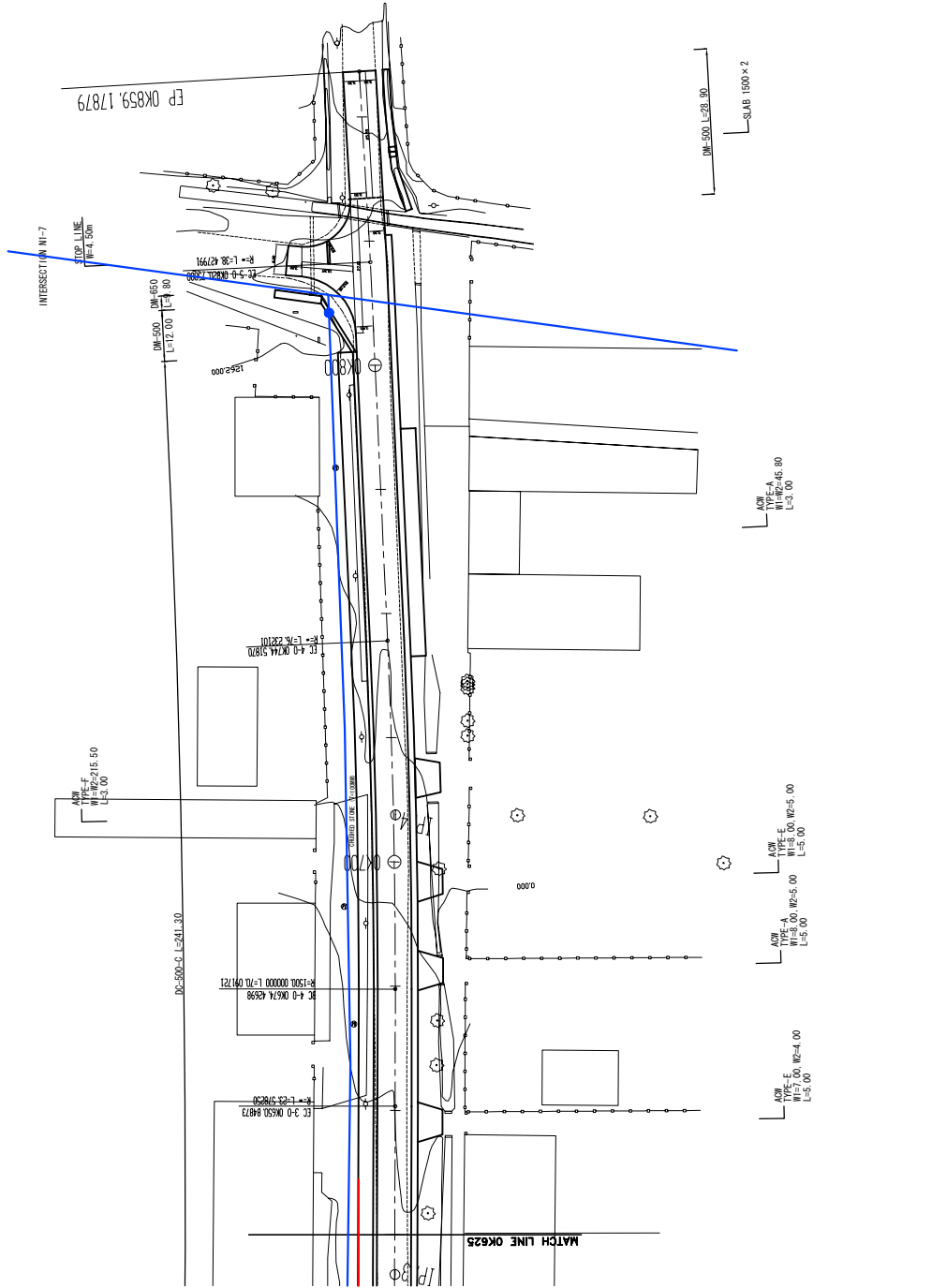
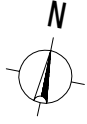
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDUOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	PREPARED	KATAHARA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	DATE	SHEET NO
						SUBMITTED		DATE	



- : Power Cable
- : Telephone Cable
- : Water Pipe
- : Conflict Point

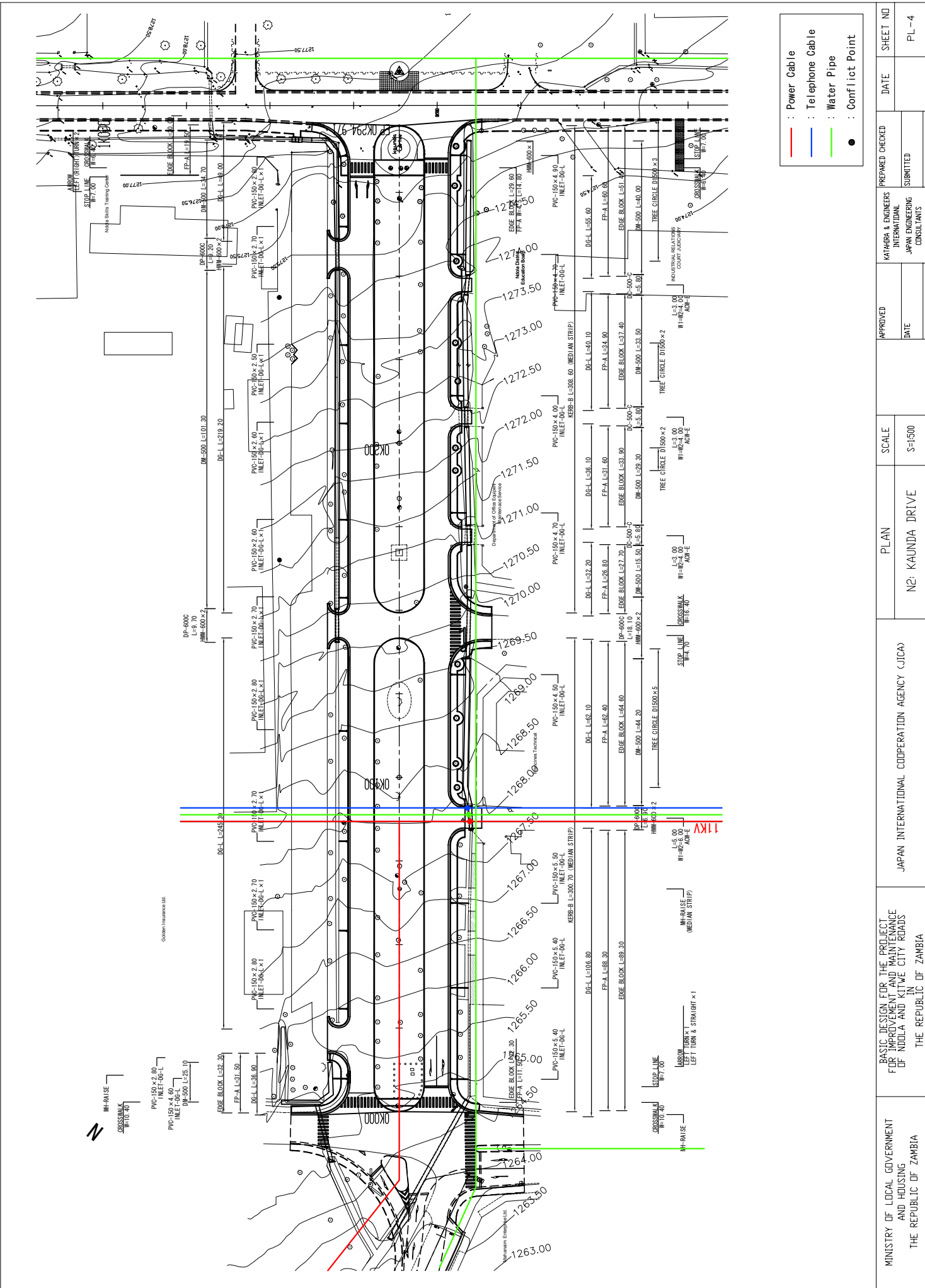
○ : Power poles to be temporarily supported during excavation for the side ditch.

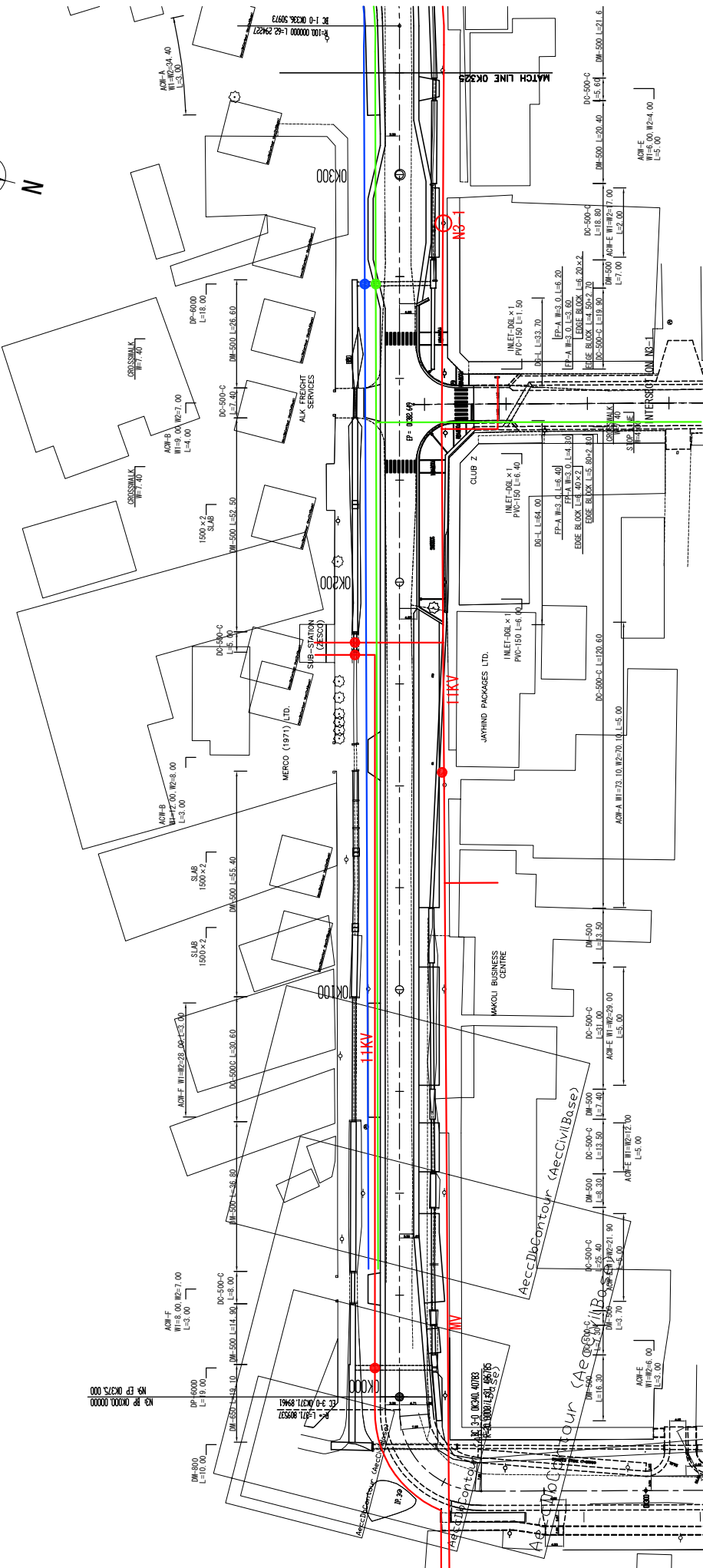
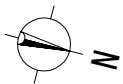
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDUKA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHARA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	DATE	SHEET NO
				NI: VITANDA STREET(2/3)	S=1500		DATE	



- : Power Cable
- : Telephone Cable
- : Water Pipe
- : Conflict Point

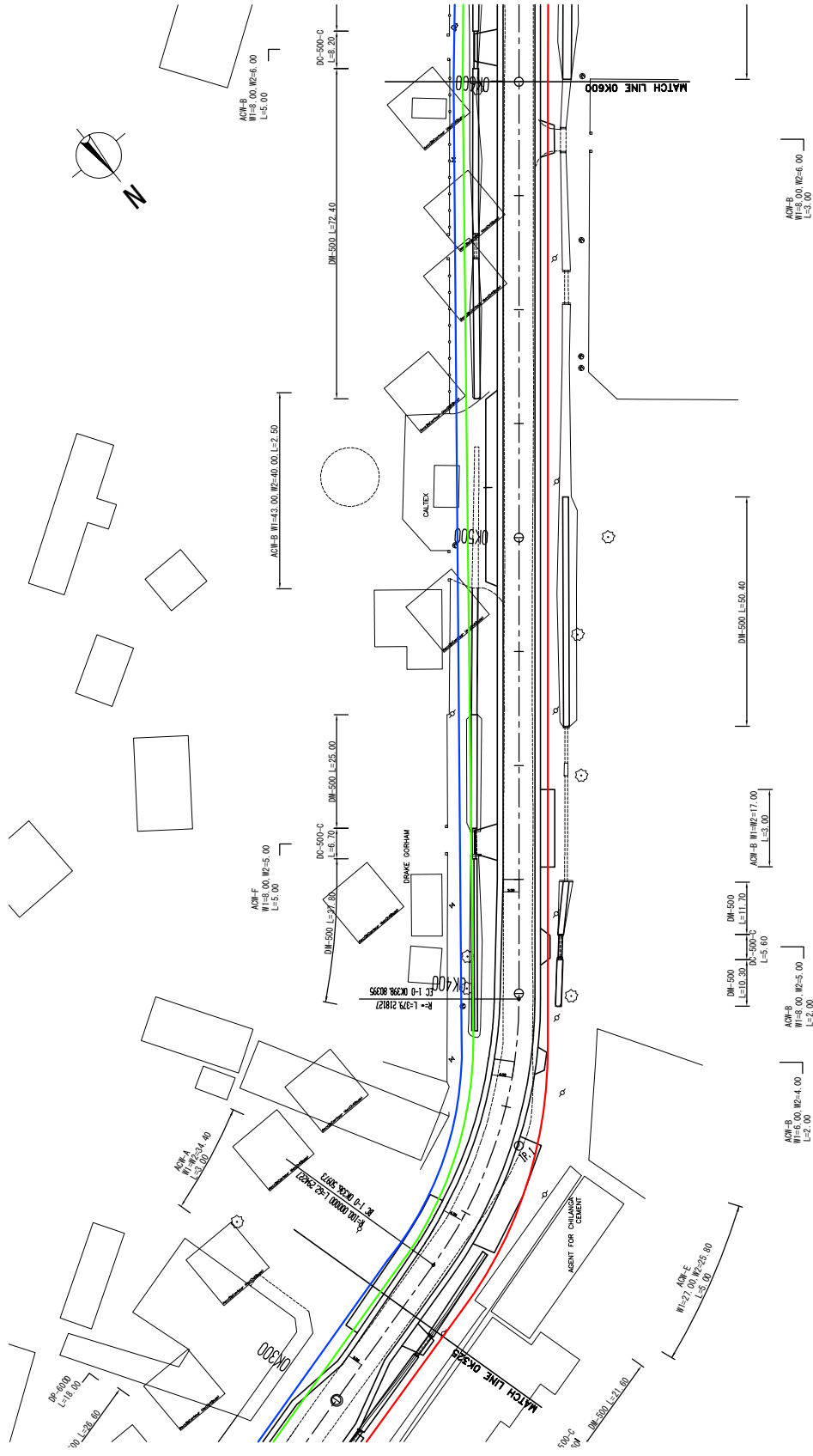
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDUKA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED DATE	KATAHARA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED	DATE	SHEET NO
							CHECKED	DATE	PL-3





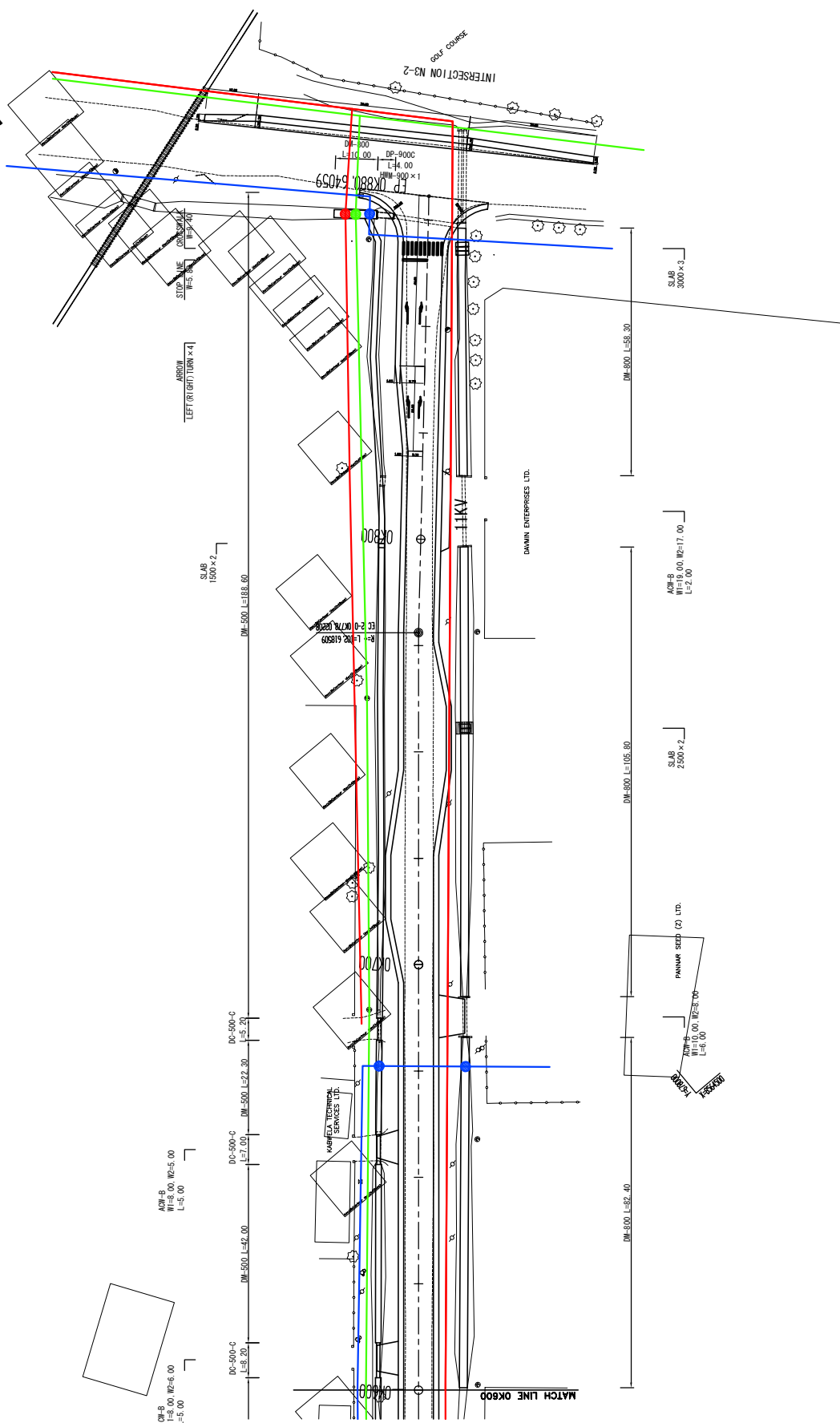
- : Power Cable
- : Telephone Cable
- : Water Pipe
- : Conflict Point

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	KATAHARA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED CHECKED SUBMITTED	DATE	SHEET NO



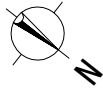
- : Power Cable
- : Telephone Cable
- : Water Pipe
- : Conflict Point

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED	DATE	SHEET NO
						CHECKED		
BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDUKA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA		N3: MAKOLI AVENUE (2/3)		S=1:500		DATE		

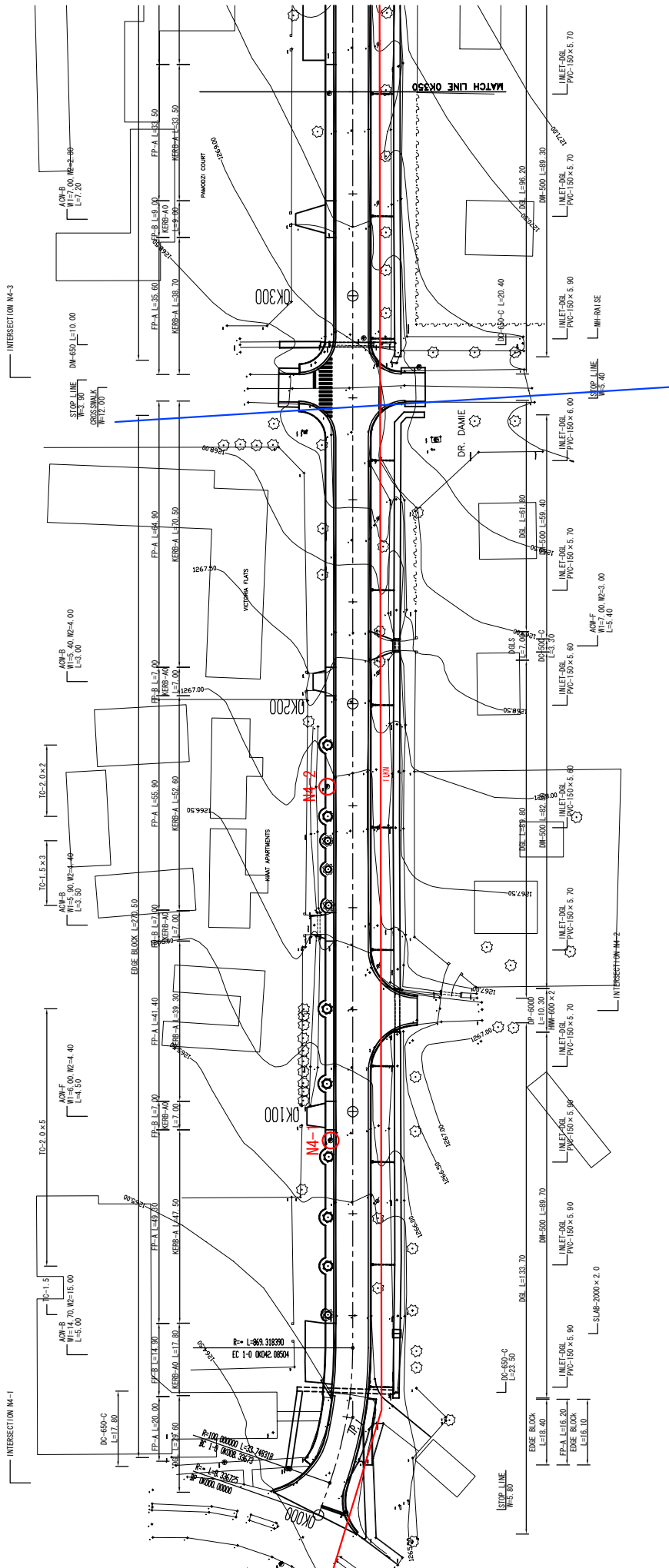


- : Power Cable
- : Telephone Cable
- : Water Pipe
- : Conflict Point

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



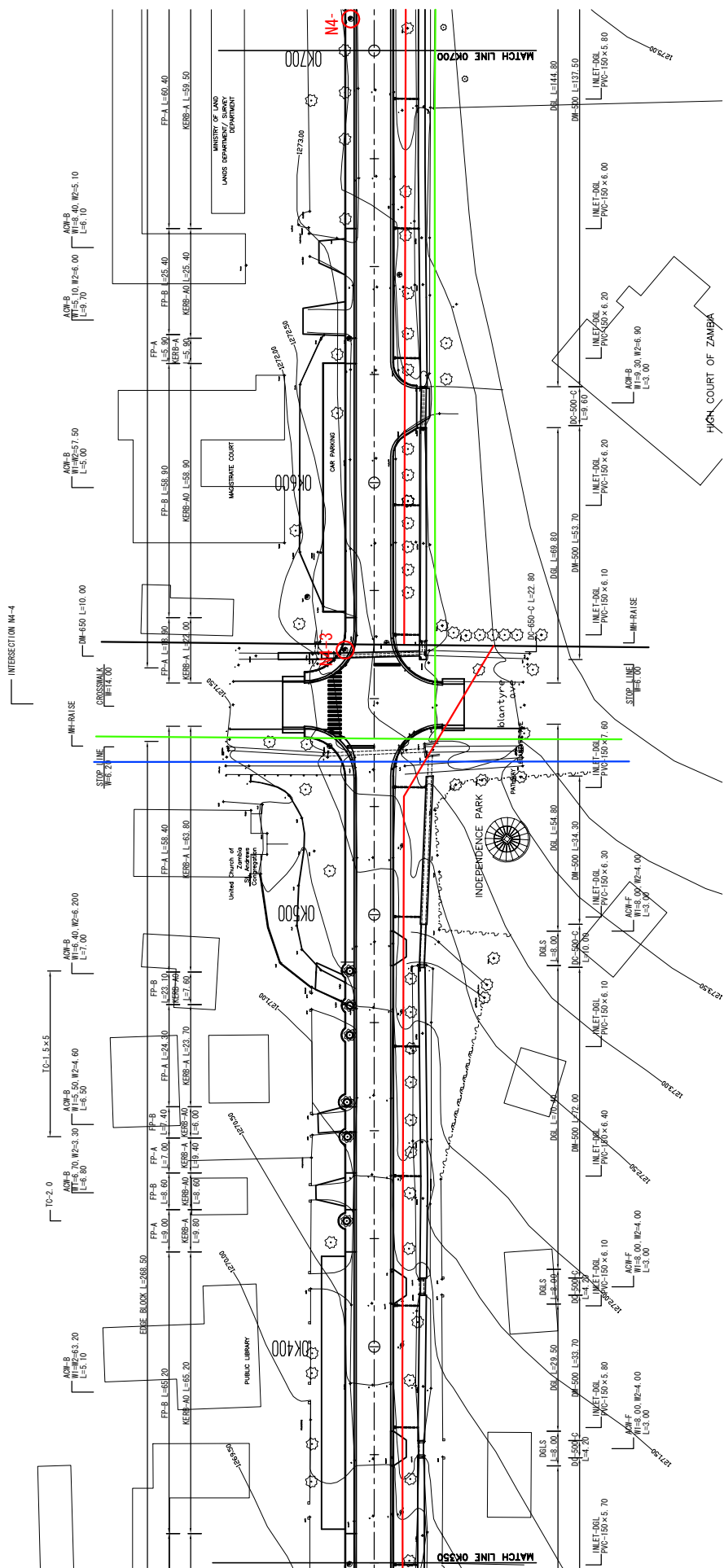
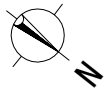
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- : Power Cable
- : Telephone Cable
- : Water Pipe
- : Conflict Point

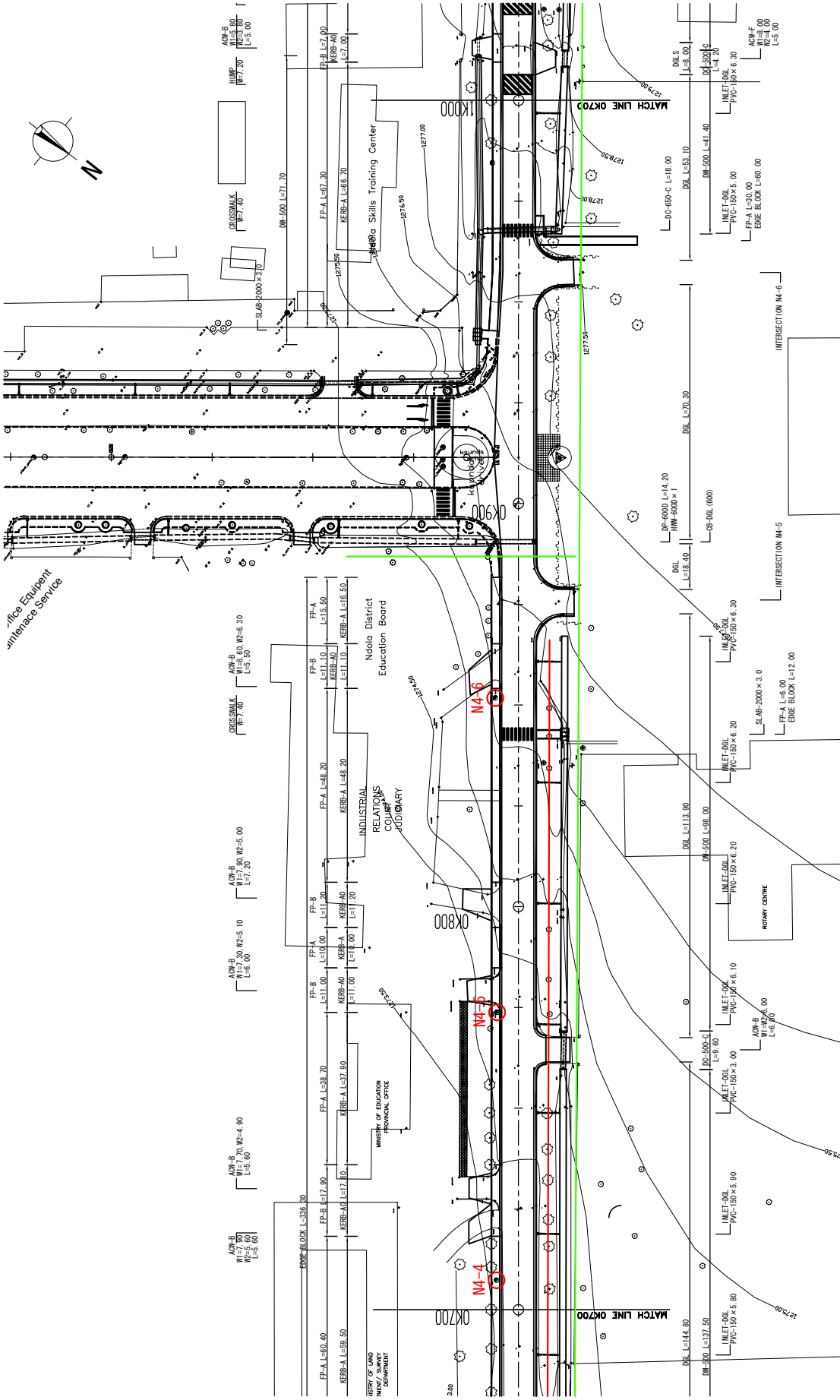
○ : Broken street lights to be removed.

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDLA AND KITWE CITY ROADS IN IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATHARUKA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	DATE	SHEET NO
				N4: INDEPENDENCE WAY(1/5)	DATE		PL-8	



—	: Power Cable
—	: Telephone Cable
—	: Water Pipe
●	: Conflict Point

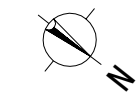
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NIDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHARA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED	DATE	SHEET NO
				N4: INDEPENDENCE WAY(2/5)			S=1:500		DATE



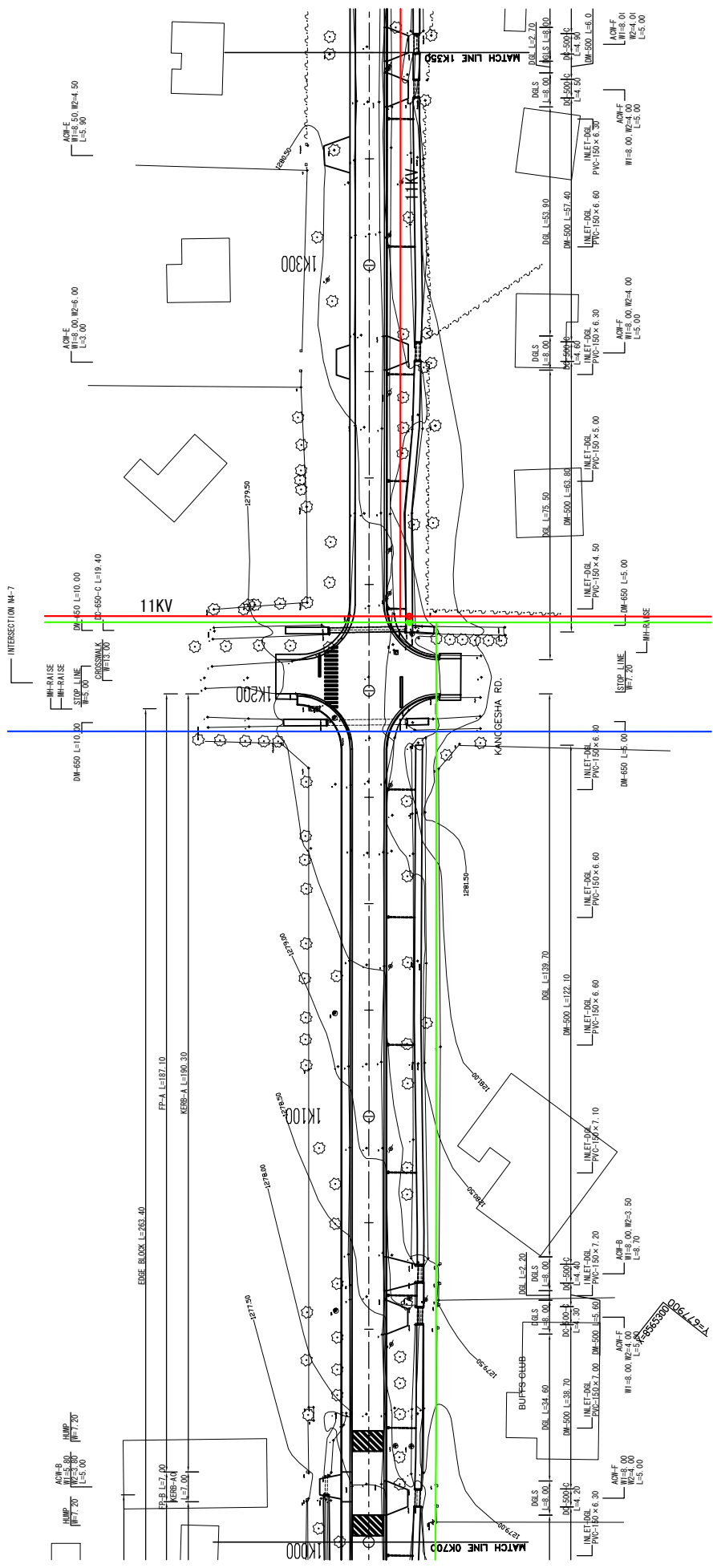
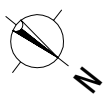
- : Power Cable
- : Telephone Cable
- : Water Pipe
- : Conflict Point

○ : Broken street lights to be removed.

Office Equipment
Interface Service

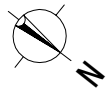


MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDOULA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED DATE	PREPARED CHECKED SUBMITTED	DATE	SHEET NO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



- : Power Cable
- : Telephone Cable
- : Water Pipe
- : Conflict Point

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATHIBA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED	SHEET NO
						CHECKED	DATE
N4: INDEPENDENCE WAY(4/5)				DATE	DATE	DATE	PL-11

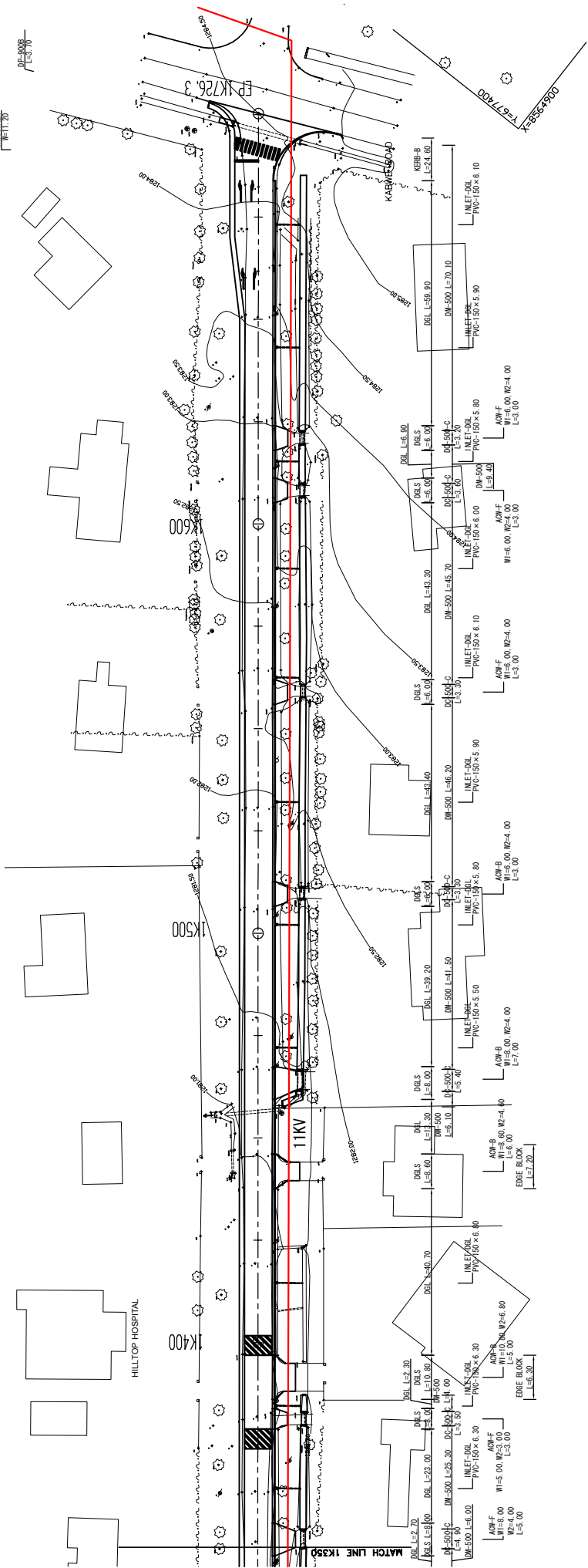


INTERSECTION MW-8

HUMP
H=7.20

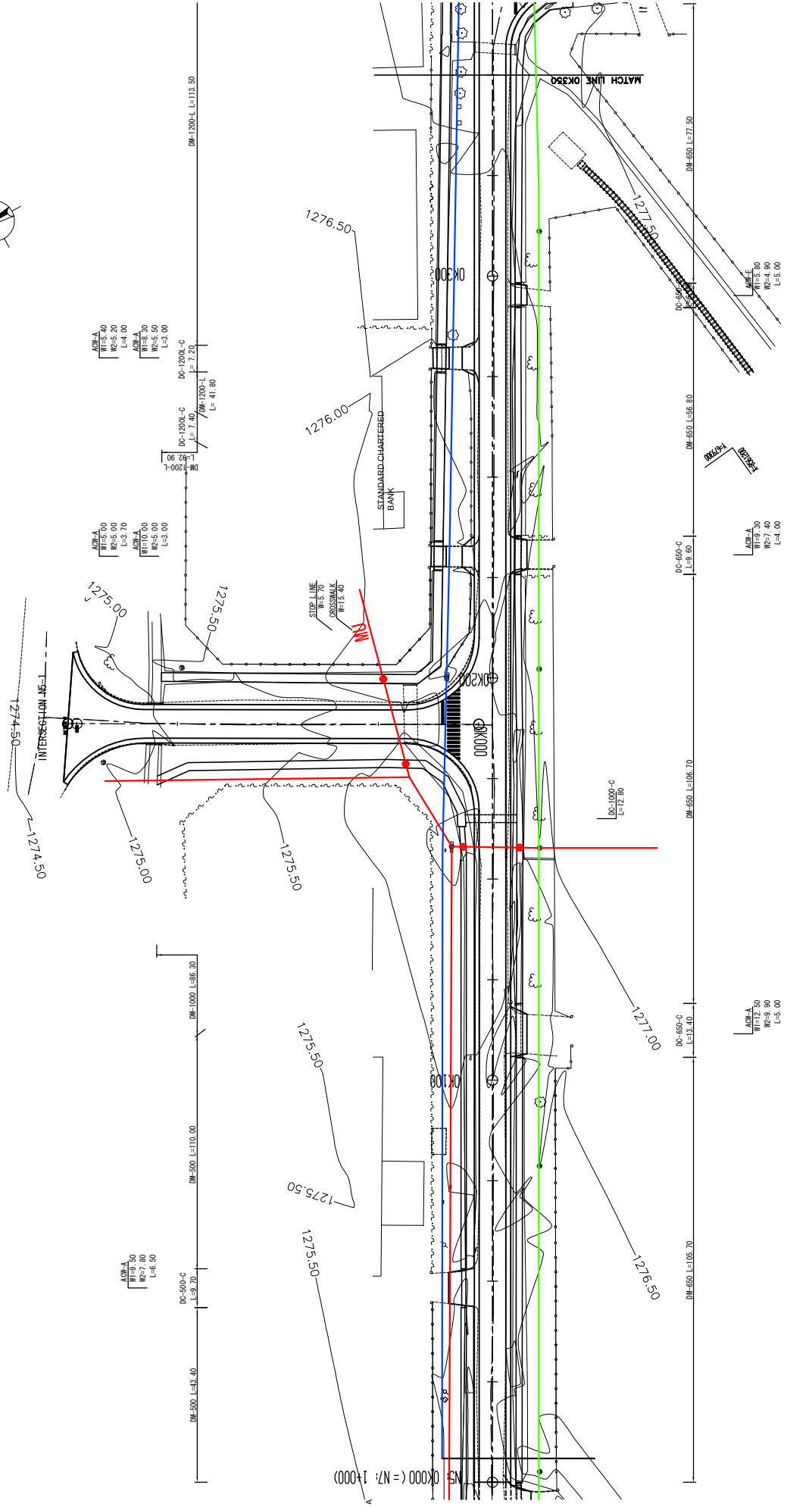
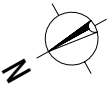
HUMP
H=7.20

ARROW
LEFT (RIGHT) TURN x 4
STOP LINE
W=3.00
CROSSWALK
W=1.70



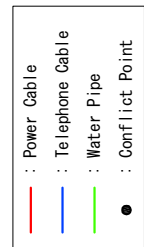
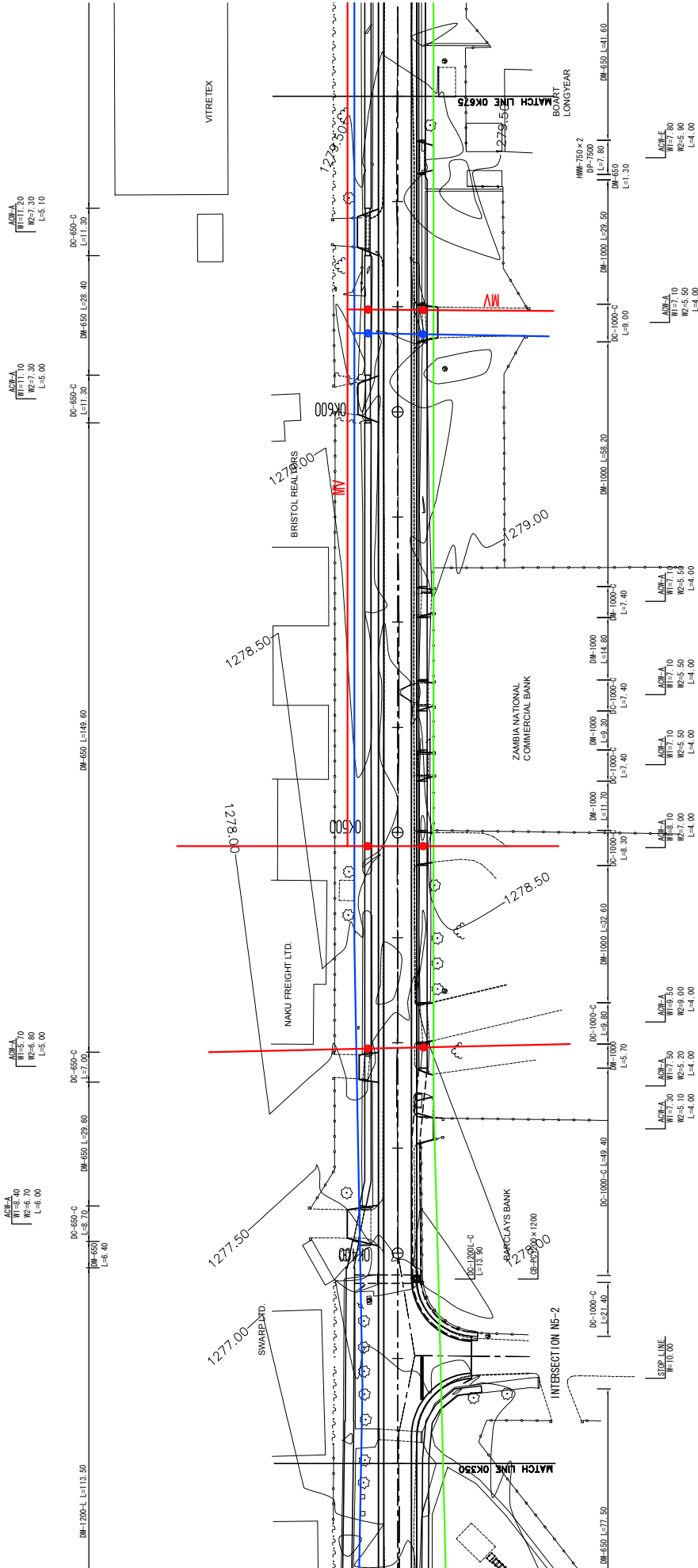
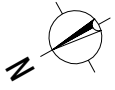
- : Power Cable
- : Telephone Cable
- : Water Pipe
- : Conflict Point

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN N4: INDEPENDENCE WAY(5/5)	SCALE S=1:500	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED CHECKED	DATE	SHEET NO
				DATE		SUBMITTED	PL-12	

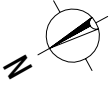


- : Power Cable
- : Telephone Cable
- : Water Pipe
- : Conflict Point

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHARA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED	DATE	SHEET NO
						CHECKED		
BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDUOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA		N5: ZAMBIA ROAD (1/77)		S=1:500				



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED DATE	KATAHARA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED	DATE	SHEET NO
						CHECKED		PL-14
BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDUKA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA			NS: ZAMBIA ROAD (2/7)		INTERSECTION NS-2		DM-650 L=11.30	



ASPH.
W=4.70
W2=4.70
L=4.50

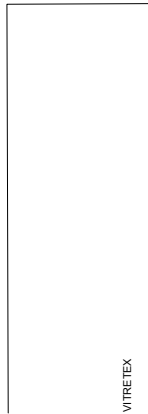
ASPH.
W=5.00
W2=4.90
L=4.50

DC-650-C
L=8.50 DM-650 L=18.80

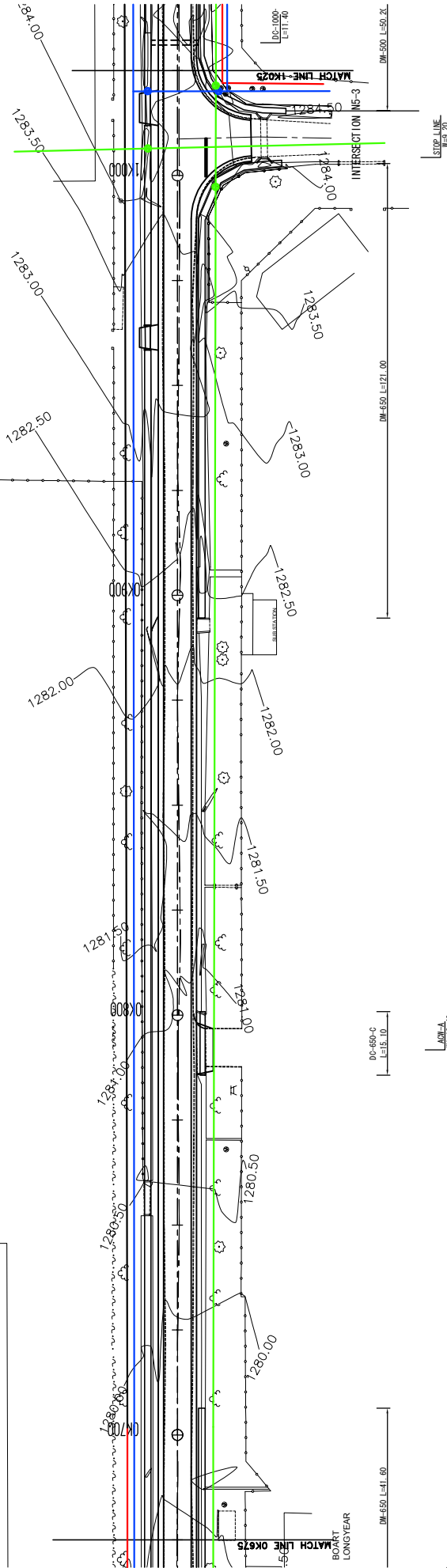
DM-650 L=10.00

DM-650 L=47.50

DM-650 L=50.2L



VITRETEX



DC-650-C
L=15.10

ASPH.
W=12.40
W2=10.00
L=4.00

DM-650 L=41.80

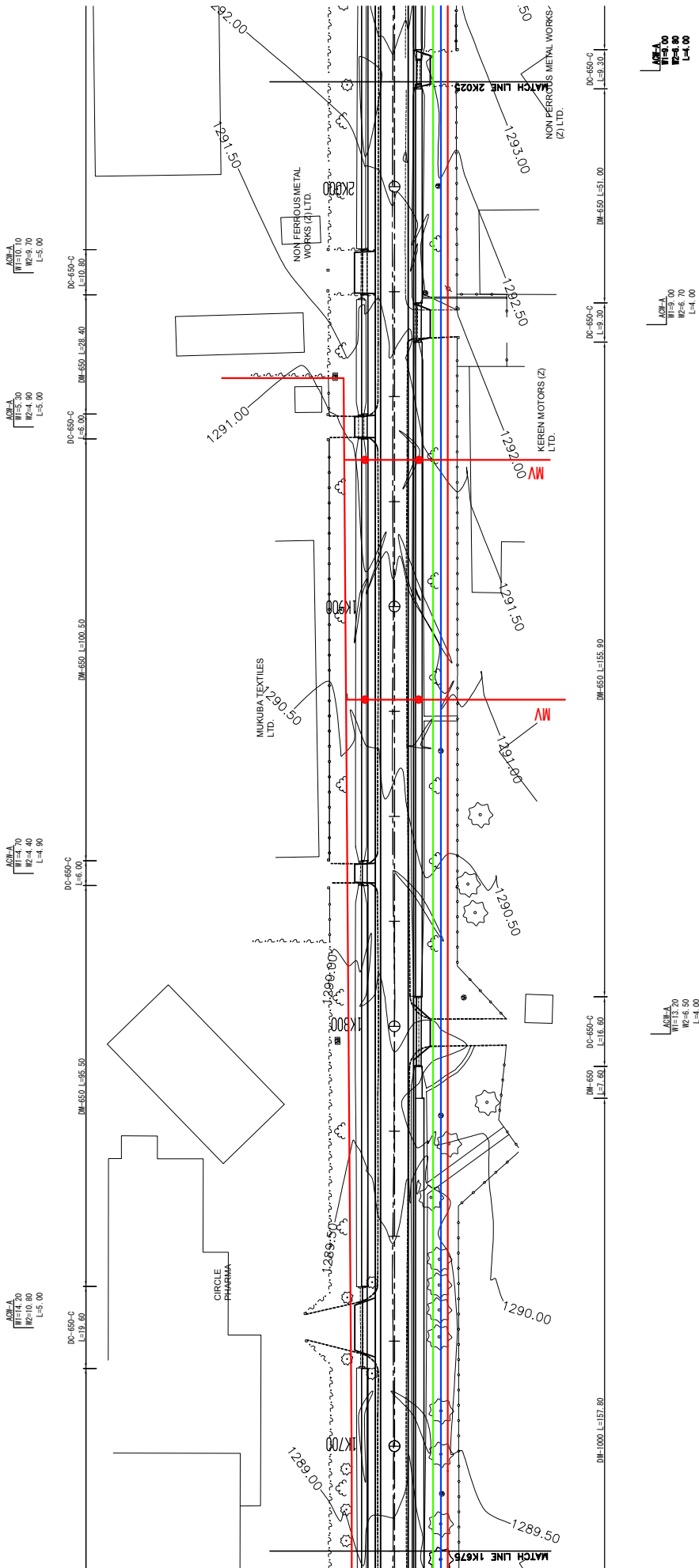
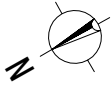
DM-650 L=121.00

DM-650 L=50.2L

0
0
0

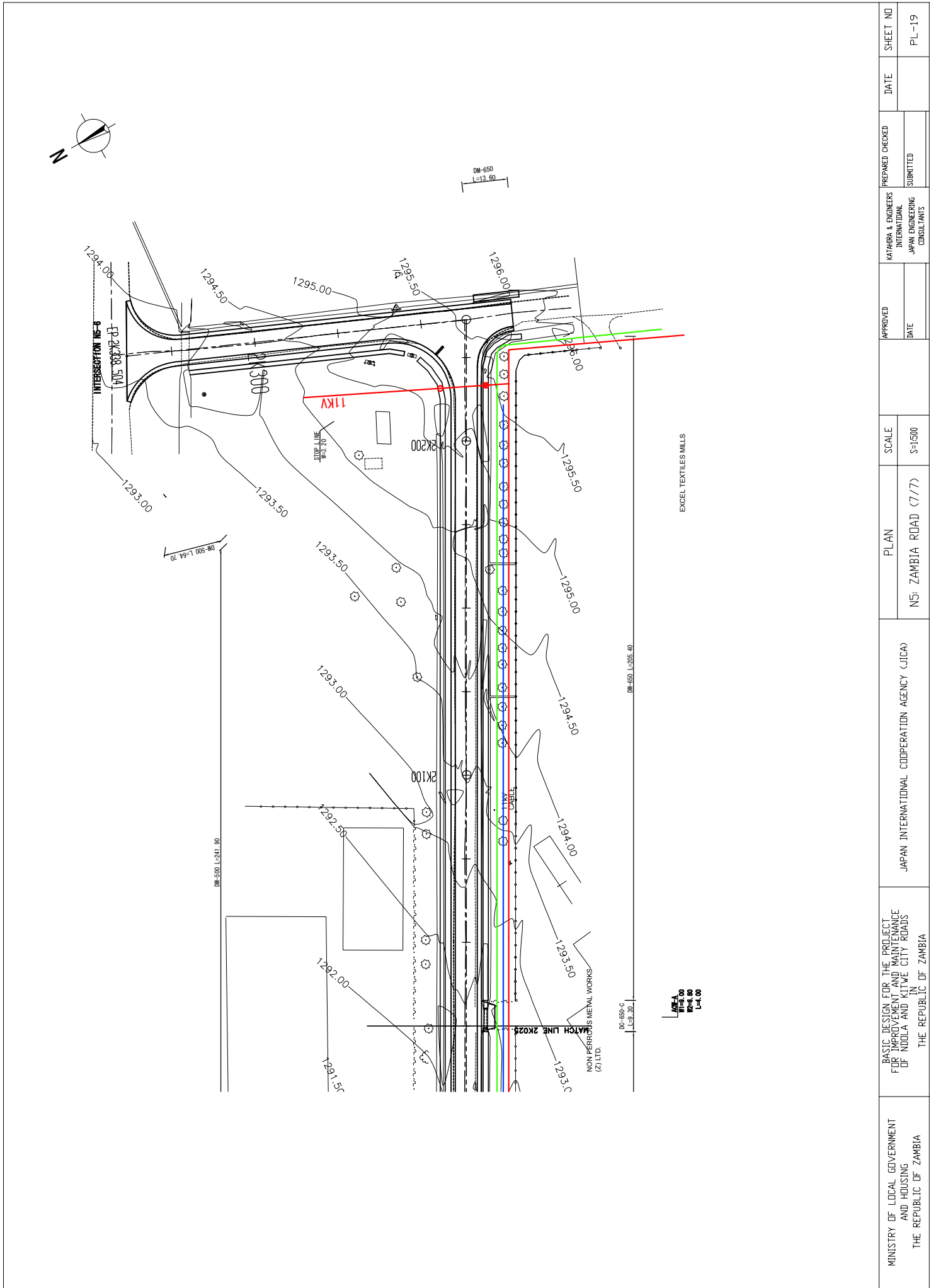
- : Power Cable
- : Telephone Cable
- : Water Pipe
- : Conflict Point

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHARA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED	DATE	SHEET NO
						CHECKED	DATE	PL-15
		NS: ZAMBIA ROAD (3/7)		DATE	SUBMITTED			

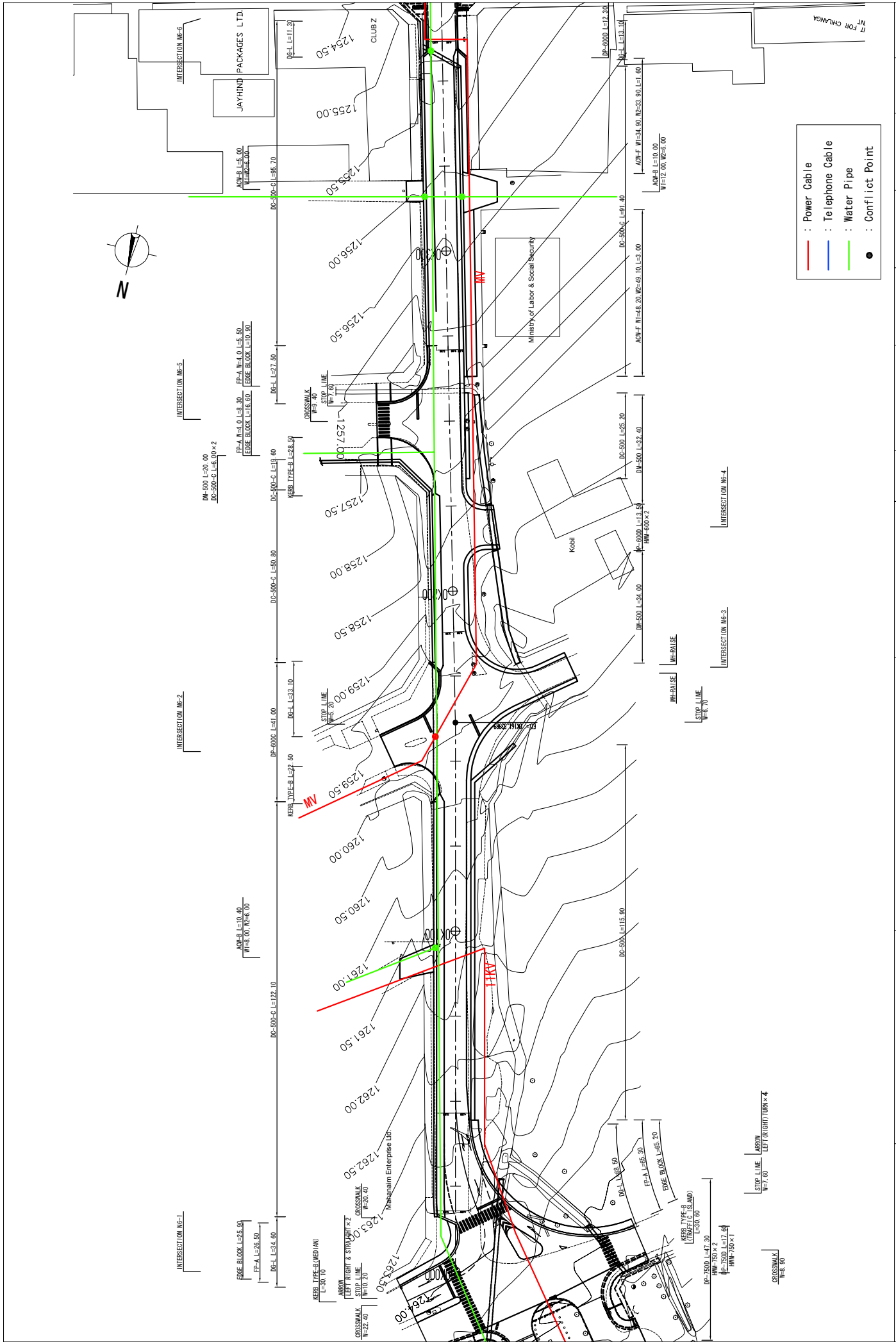


- : Power Cable
- : Telephone Cable
- : Water Pipe
- : Conflict Point

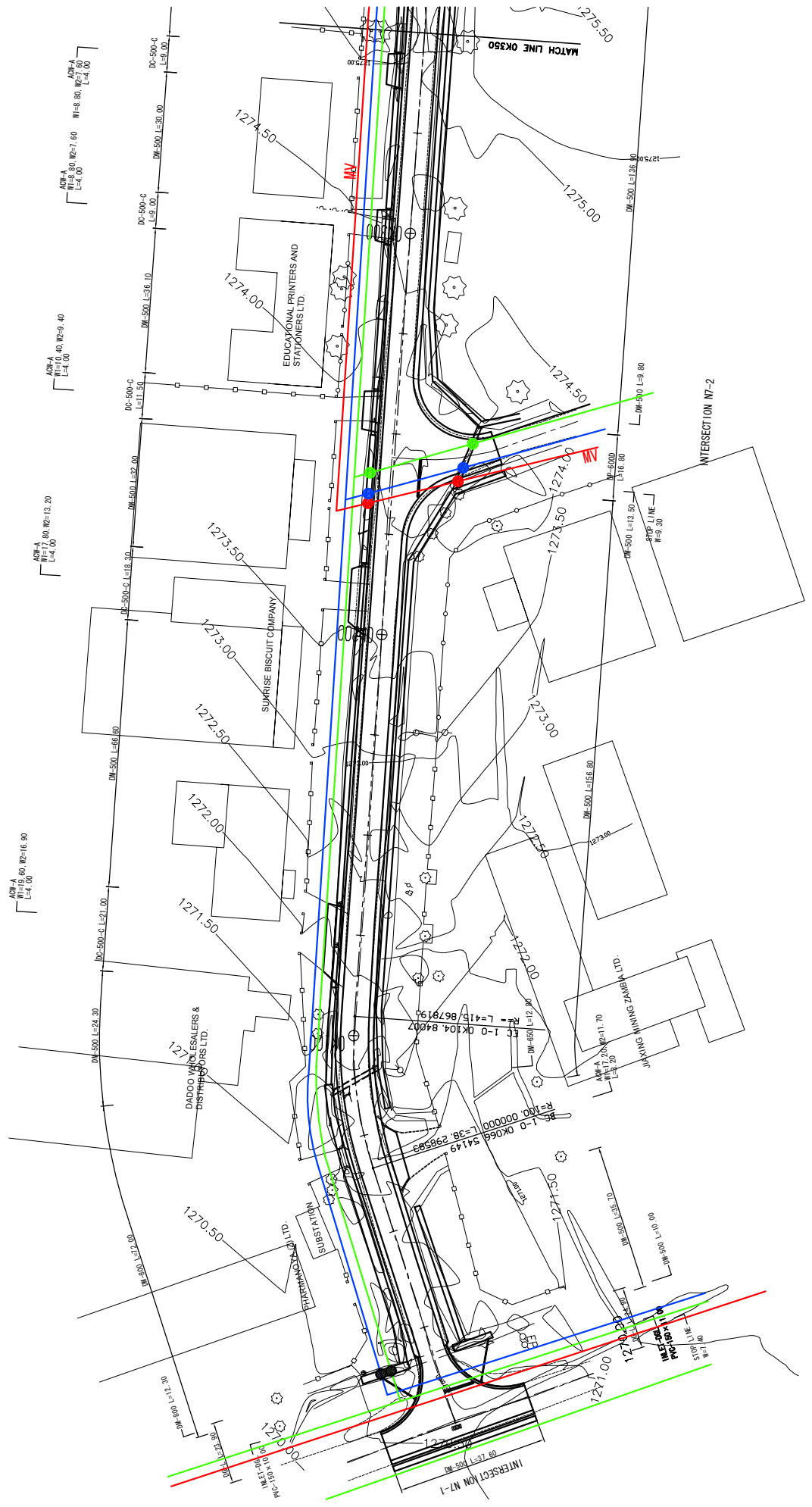
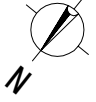
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHARA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED	DATE	SHEET NO
						DATE		
N5: ZAMBIA ROAD (6/7)			S=1:500					
BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NIDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA								



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN NS- ZAMBIA ROAD (7/7)	SCALE S=1:500	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED	SHEET NO PL-19
					DATE		CHECKED	

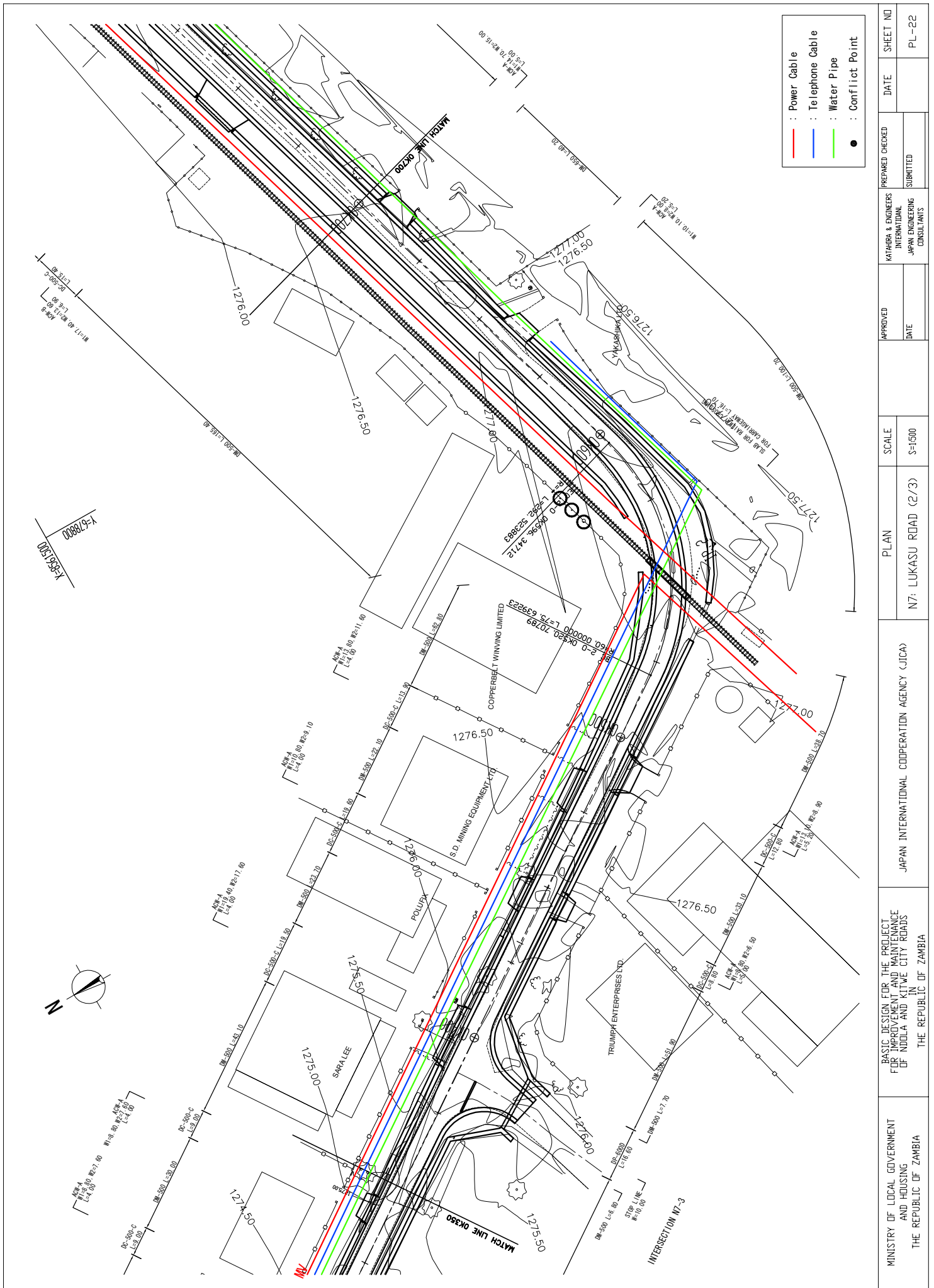


MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDUOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN N6: METELO ROAD	SCALE S=1:500	APPROVED	PREPARED	CHECKED	DATE	SHEET NO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



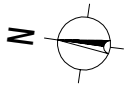
- : Power Cable
- : Telephone Cable
- : Water Pipe
- : Conflict Point

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHARA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED	SHEET NO
						CHECKED	
BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NIDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA			N7: LUKASU ROAD (1/3)	S=1500	DATE	SUBMITTED	PL-21



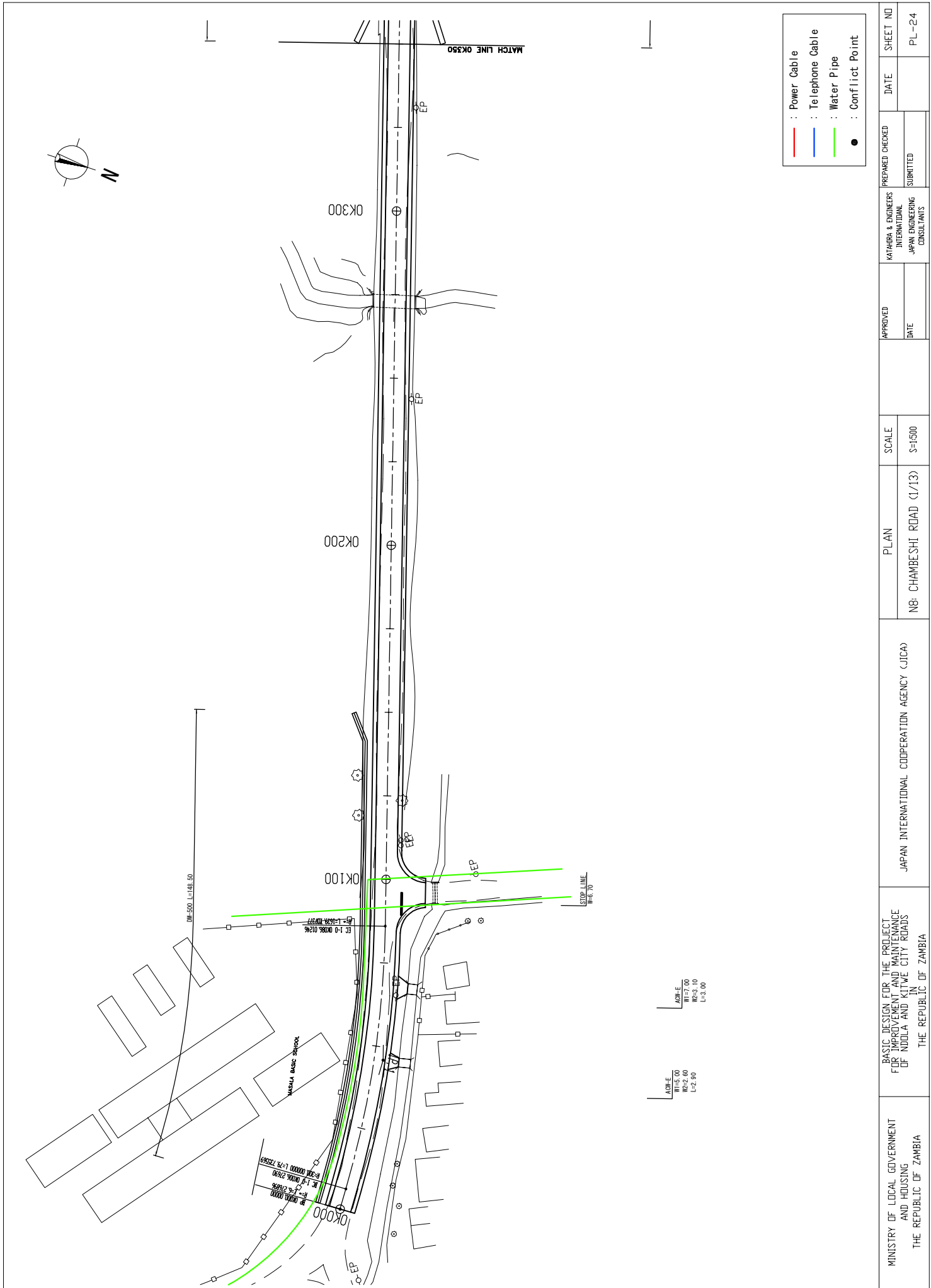
- : Power Cable
- : Telephone Cable
- : Water Pipe
- : Conflict Point

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NIDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHARA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED	DATE	SHEET NO
				N7: LUKASU ROAD (2/3)			S=1500		



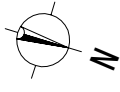
- : Power Cable
- : Telephone Cable
- : Water Pipe
- : Conflict Point

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	N7: LUKASU ROAD (3/3)	SCALE S=1:500	APPROVED	DATE	PREPARED CHECKED	DATE	SHEET NO PL-23
						DATE				



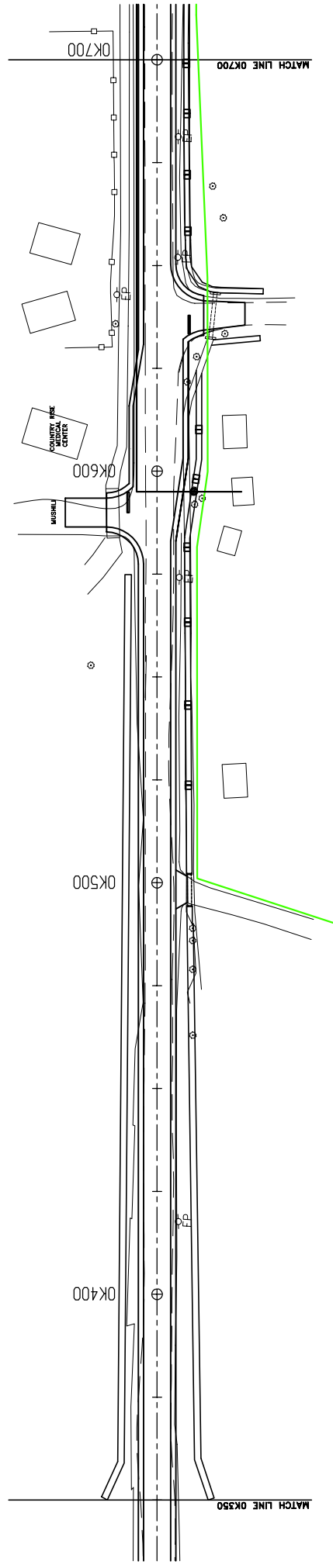
- : Power Cable
- : Telephone Cable
- : Water Pipe
- : Conflict Point

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 IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED	DATE	SHEET NO
							CHECKED	DATE	PL-24
			N8: CHAMBESHI ROAD (1/13)	S=1:500	DATE		SUBMITTED		



ASPH
W=7.00
W2= 5.50
L=10.00
STOP LINE
W=4.50

DM-650 L=225.40



DM-500
L=11.90
STOP LINE
W=4.50

DM-500 L=122.50
SUB=1500x12

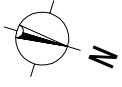
DM-500
L=11.90

ASPH
W=8.50
W2= 6.30
L=2.80

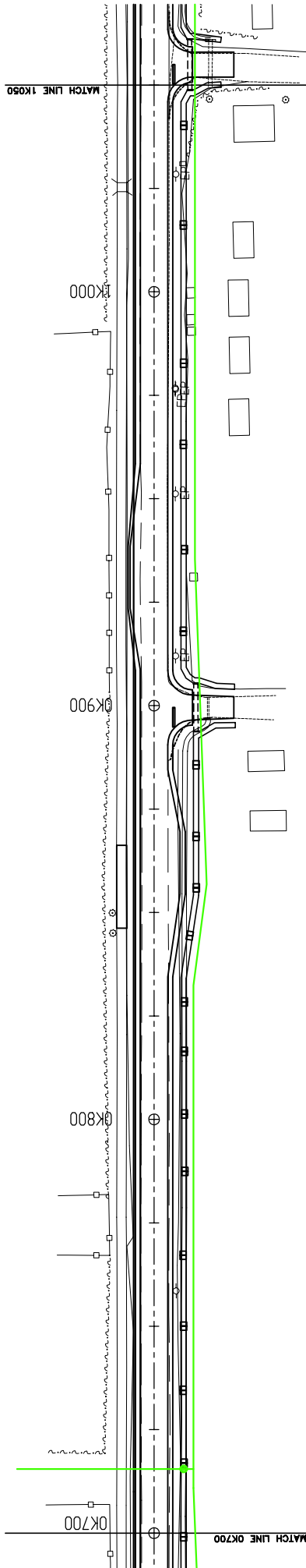
ASPH
W=7.00
W2= 5.50
L=10.00

- : Power Cable
- : Telephone Cable
- : Water Pipe
- : Conflict Point

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NIDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	S=1:500	DATE	PREPARED	KATAHARA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	SHEET NO
							CHECKED		DATE
		N8: CHAMBESHI ROAD (2/13)				DATE	SUBMITTED		



REPAIR-DI200
L=20.00



STOP LINE
W=4.70

STOP LINE
W=4.70

DM-500 L=215.30
S.A.B:1500x32

DM-500 L=163.70
S.A.B:1500x12

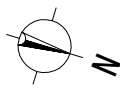
DP-6000 L=12.10
HM-600x2

ACPA
WF: 6.00
WF: 5.00
WF: 6.00
L=10.00

ACPA
WF: 6.00
WF: 5.00
WF: 6.00
L=10.00

- : Power Cable
- : Telephone Cable
- : Water Pipe
- : Conflict Point

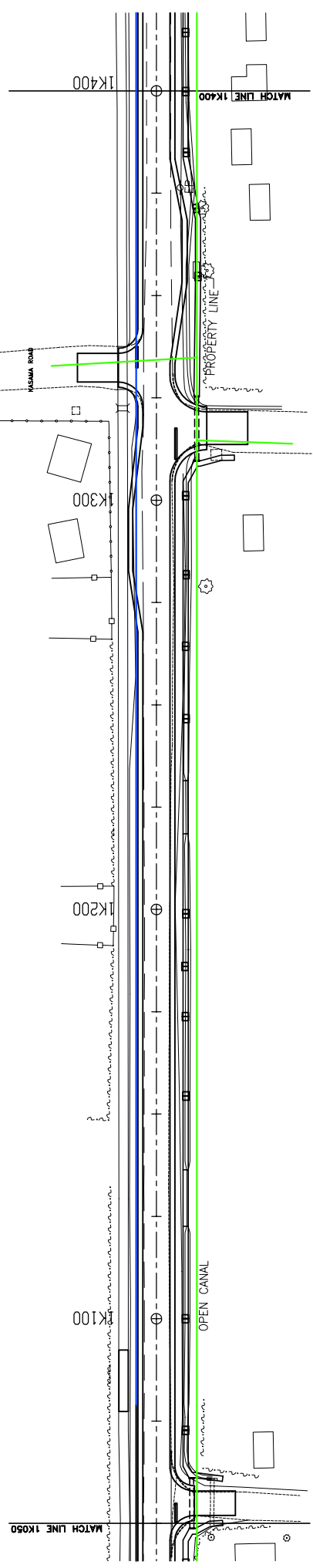
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN N8: CHAMBESHI ROAD (3/13)	SCALE S=1:500	APPROVED	KATAHARA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED	DATE	SHEET NO PL-26
				DATE		SUBMITTED		



ADW-A
 WF=7.00
 W=7.00
 L=10.00

STOP LINE
 W=8.20

REPAIR-DI200
 L=20.00



STOP LINE
 W=7.60

OP-6000
 L=15.50
 FMH-600x2

DM-500
 L=4.70

ADW-A
 WF=8.00
 W=8.00
 L=10.00

DM-500 L=88.20

DC-500-C
 L=13.00

DM-500 L=82.10

DC-500-C
 L=13.80

DM-500 L=70.00

OP-6000
 L=12.10
 FMH-600x2

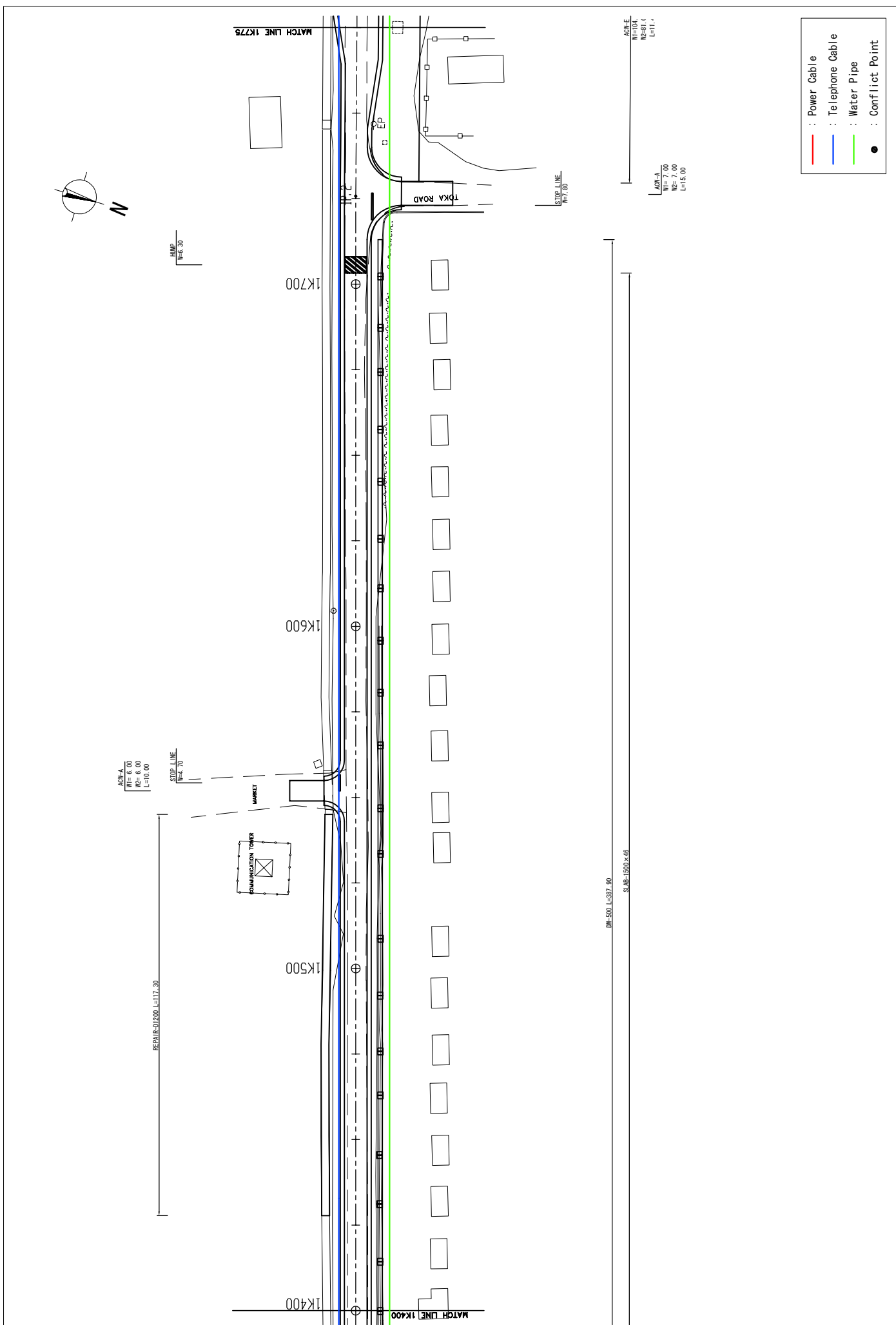
ADW-A
 WF=6.00
 W=6.00
 L=10.00

SIAB-1500x20

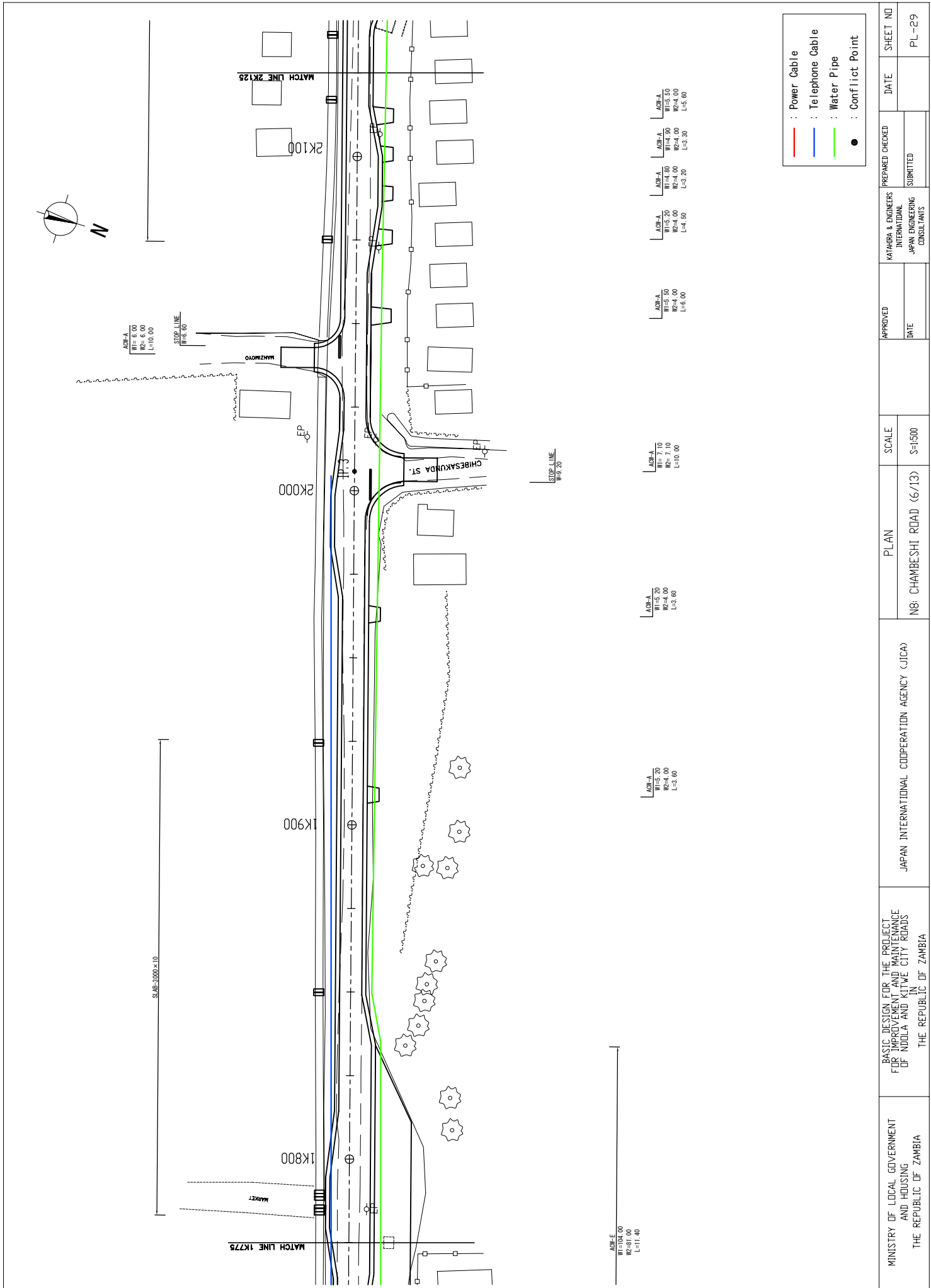
- : Power Cable
- : Telephone Cable
- : Water Pipe
- : Conflict Point

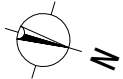
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHARA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS		DATE	SHEET NO
					DATE	PL-27		
N8: CHAMBESHI ROAD (4/13)			S=1:500					
BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDUKA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA								

- : Power Cable
- : Telephone Cable
- : Water Pipe
- : Conflict Point



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDLA AND KITVE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN N8: CHAMBESHI ROAD (5/13)	SCALE S=1/500	APPROVED	KATAHARA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED	DATE	SHEET NO
					DATE		SUBMITTED	PL-28	

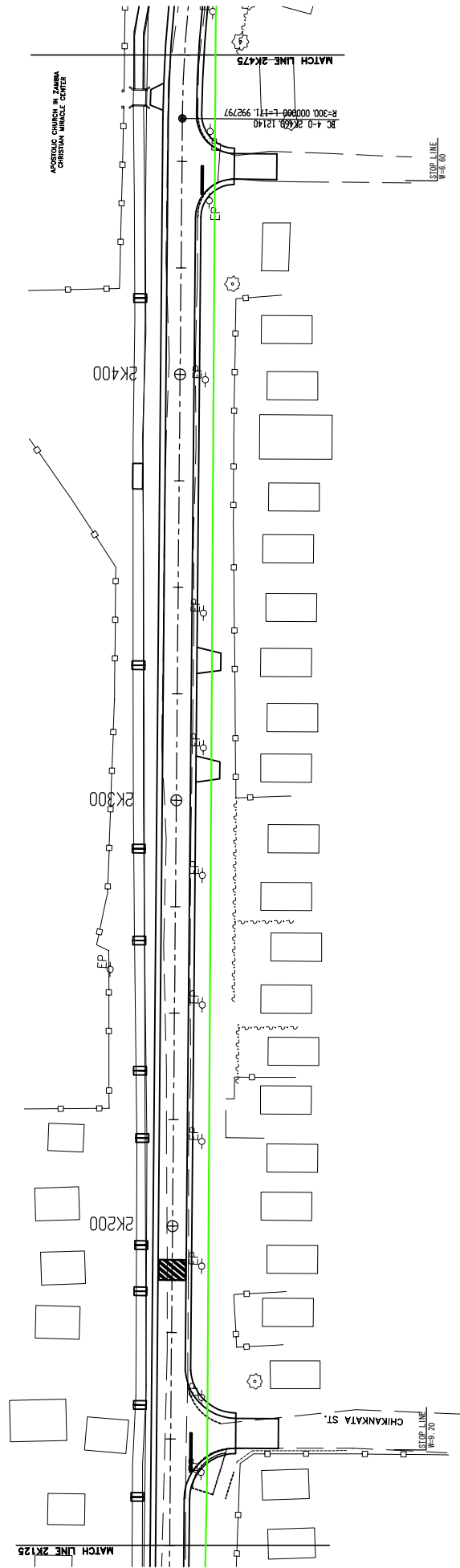




ASPH-A
W1=6.30
W2=3.70
L=2.00

SLAB-3000x24
REPAIR-D1200
L=6.00

RAIL
W=6.30



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

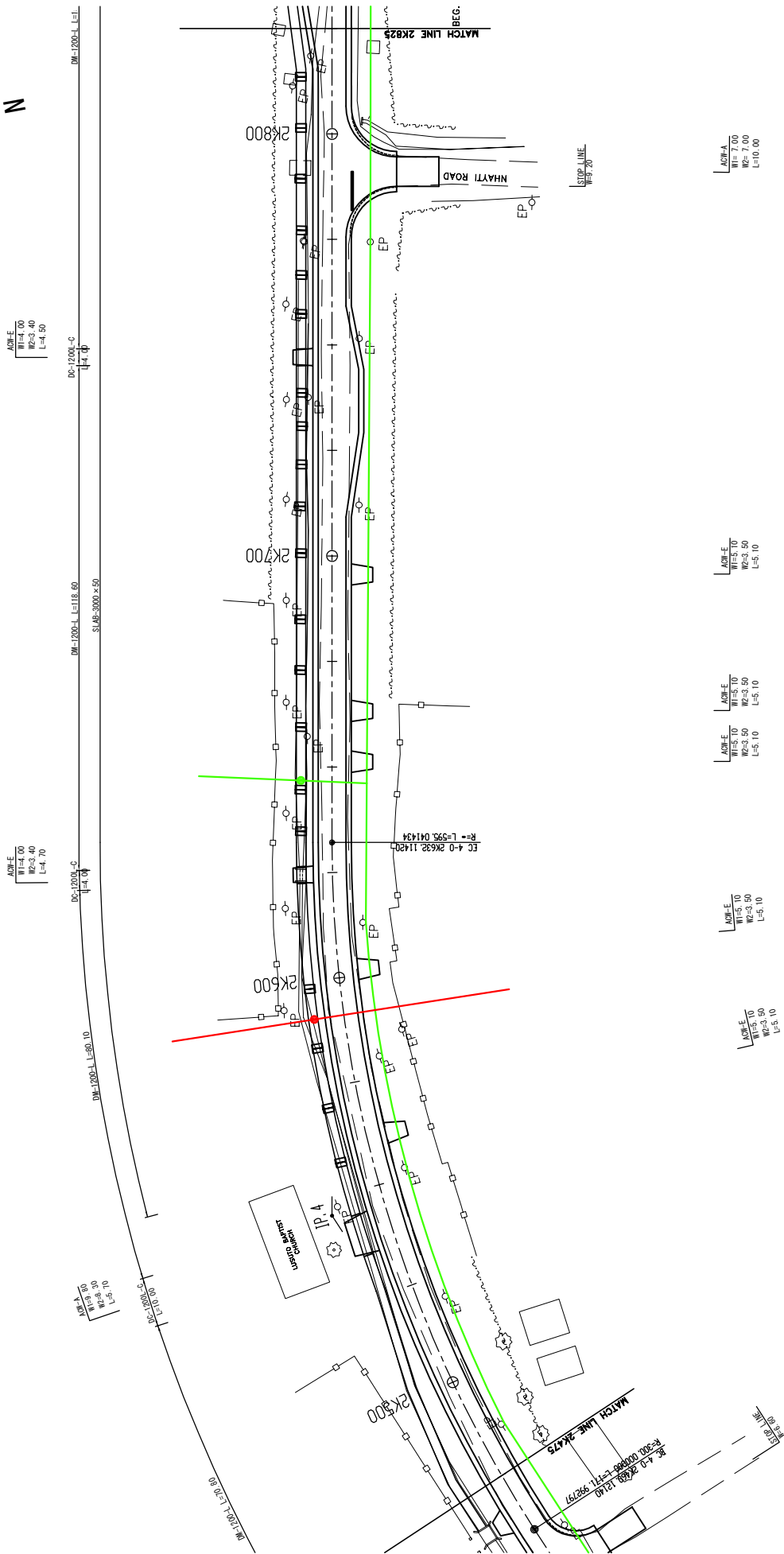
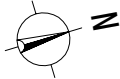
ASPH-A
W1=5.20
W2=4.00
L=5.60

ASPH-A
W1=5.20
W2=4.00
L=5.60

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

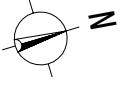
- : Power Cable
- : Telephone Cable
- : Water Pipe
- : Conflict Point

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHARA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED	DATE	SHEET NO
							SUBMITTED		PL-30
			N8: CHAMBESHI ROAD (7/13)	S=4500	DATE				



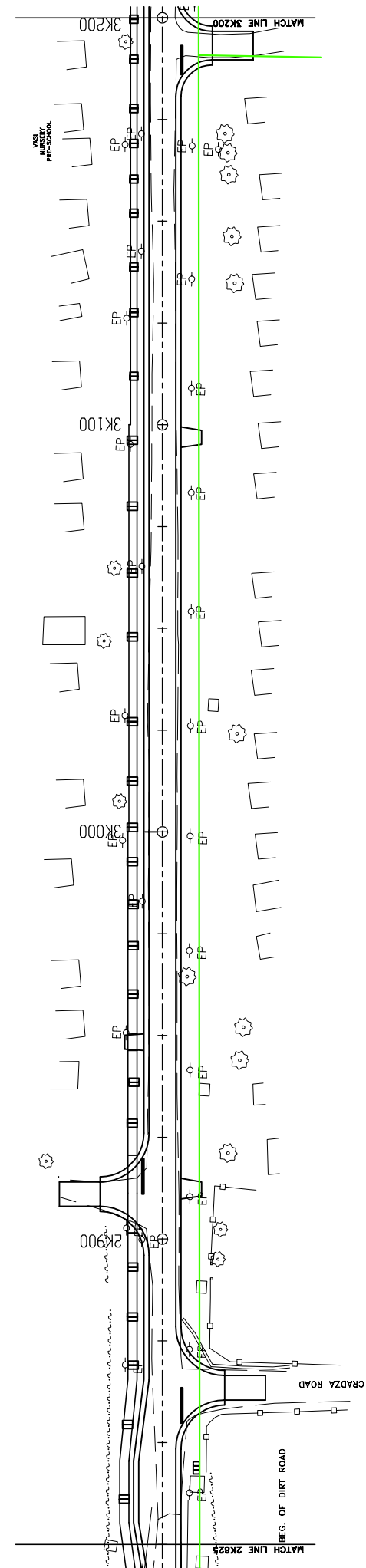
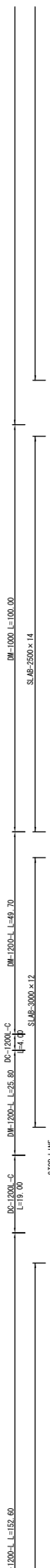
- : Power Cable
- : Telephone Cable
- : Water Pipe
- : Conflict Point

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	N8: CHAMBESHI ROAD (8/13)		SCALE S=1:500	APPROVED DATE	KATAHARA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED	CHECKED	DATE	SHEET NO
BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDDLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA											PL-31



ADW-E
 W1= 4.70
 W2= 3.50
 L= 2.40

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



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

ADW-E
 W1= 3.50
 W2= 3.50
 L= 5.10

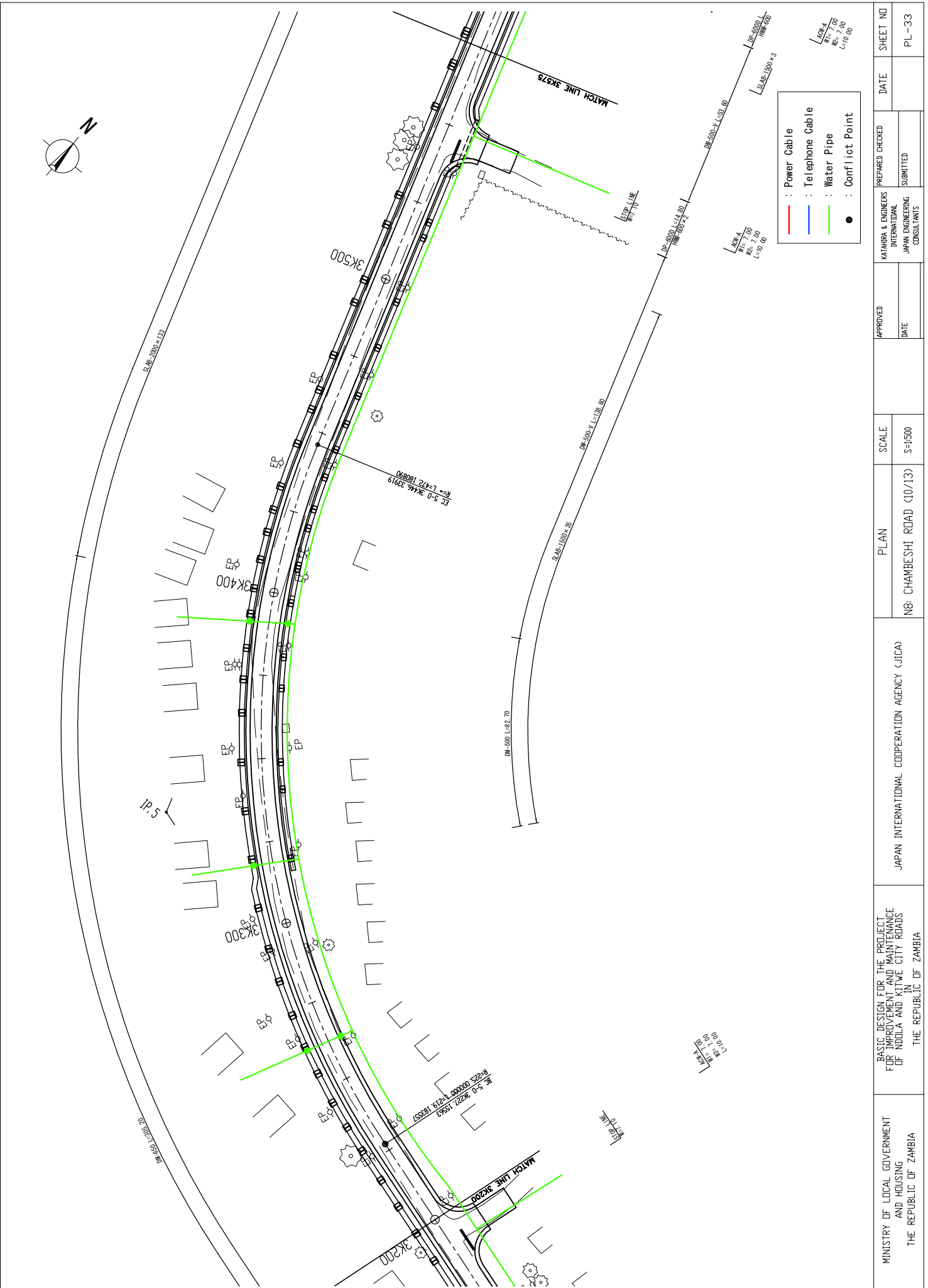
ADW-E
 W1= 5.10
 W2= 3.50
 L= 5.10

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

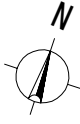
Legend:

- : Power Cable
- : Telephone Cable
- : Water Pipe
- : Conflict Point

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDUKA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHARA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED	DATE	SHEET NO
							CHECKED	DATE	PL-32
			N8: CHAMBESHI ROAD (9/13)	S=1:500	DATE		SUBMITTED		



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN N8: CHAMBESHI ROAD (10/13)	SCALE S=1:500	APPROVED DATE	KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED	CHECKED	DATE	SHEET NO
						SUBMITTED	SUBMITTED		PL-33



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

DM-500
L=17.60

DC-550-C
L=20.60

DM-500
L=16.80

ADP-E
W1= 7.70
W2= 6.00
L=10.00

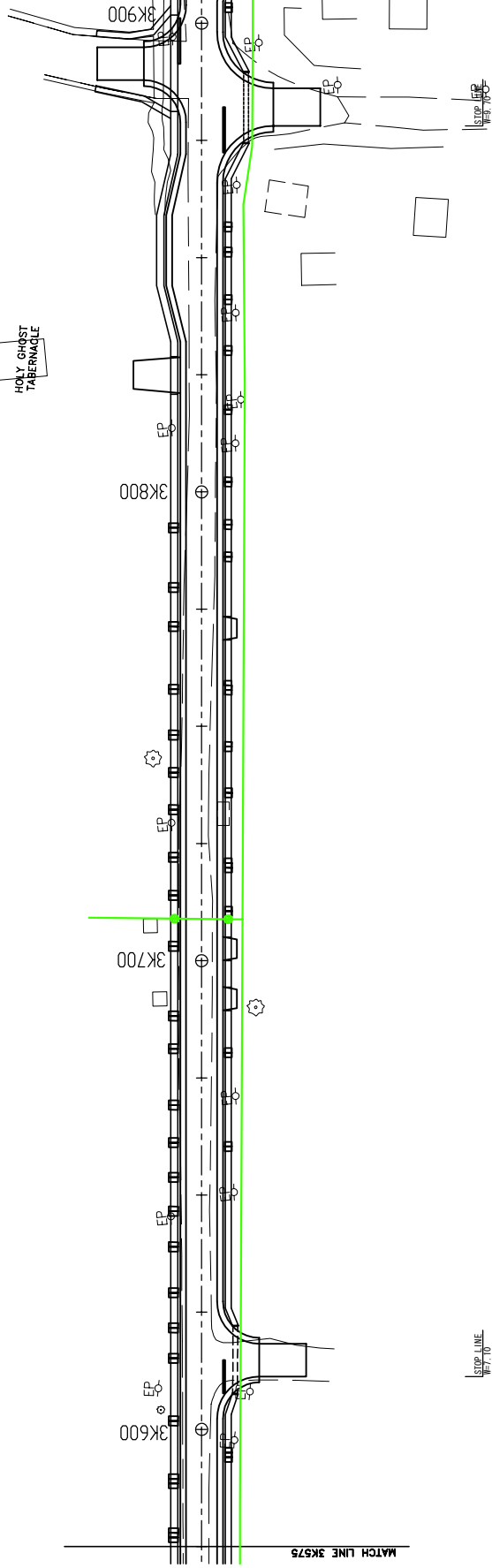
DC-550-C
L=8.00

DM-500-V L=53.00

DM-550-V L=71.10

STOP LINE
W17.70

HOLY GHOST
TABERNACLE



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

DM-500
L=17.60

DC-550-C
L=20.60

DM-500
L=16.80

ADP-E
W1= 7.70
W2= 6.00
L=10.00

DC-550-C
L=8.00

DM-500-V L=53.00

DM-550-V L=71.10

STOP LINE
W17.70

HOLY GHOST
TABERNACLE



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

DM-500
L=17.60

DC-550-C
L=20.60

DM-500
L=16.80

ADP-E
W1= 7.70
W2= 6.00
L=10.00

DC-550-C
L=8.00

DM-500-V L=53.00

DM-550-V L=71.10

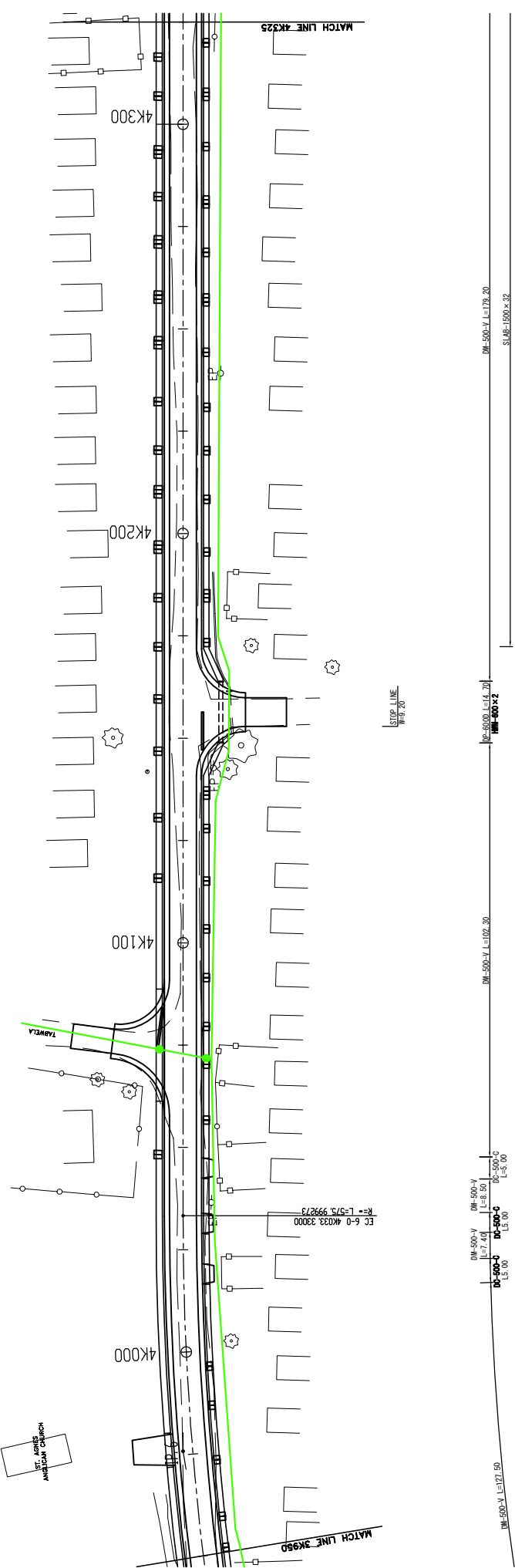
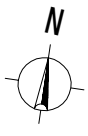
STOP LINE
W17.70

HOLY GHOST
TABERNACLE



- : Power Cable
- : Telephone Cable
- : Water Pipe
- : Conflict Point

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDUKA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED	DATE	SHEET NO
				N8: CHAMBESHI ROAD (11/13)			S=1:500		



ADW-E
W1= 7.70
W2= 6.00
L=10.00

ADW-E
W1= 7.70
W2= 6.00
L=10.00

ADW-E
W1= 7.70
W2= 6.00
L=10.00

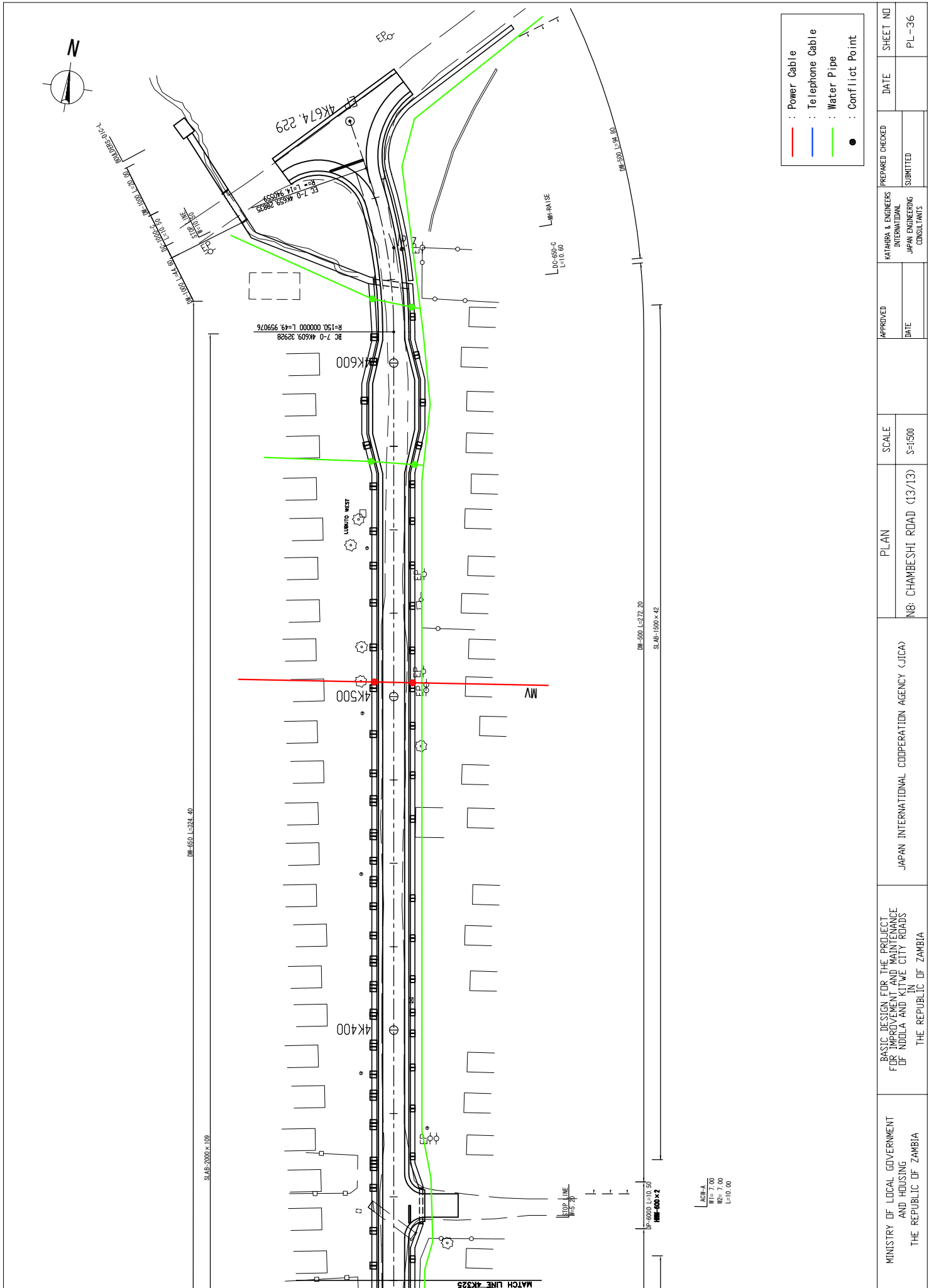
ADW-A
W1= 7.00
W2= 6.00
L=10.00

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

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

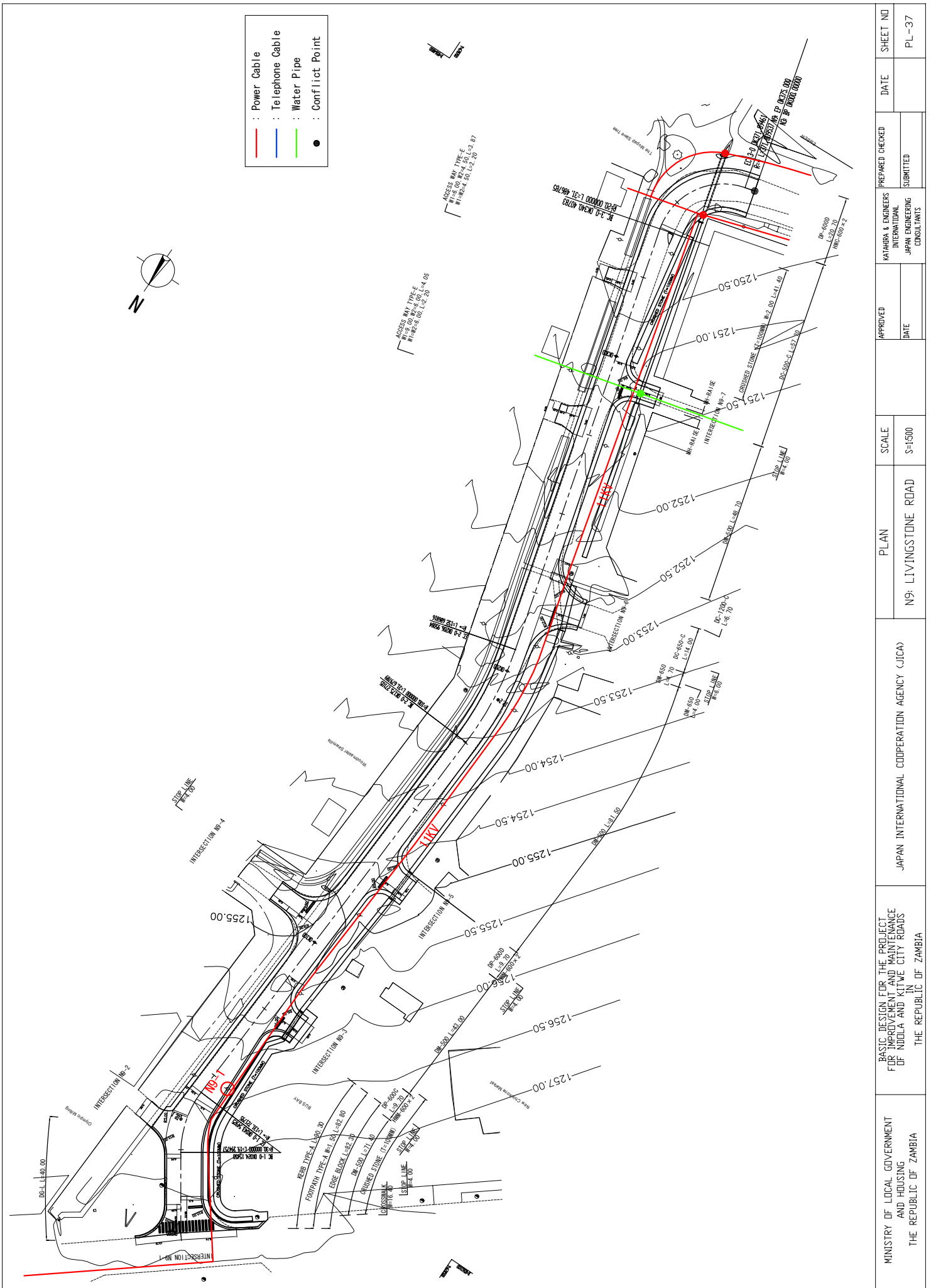
- : Power Cable
- : Telephone Cable
- : Water Pipe
- : Conflict Point

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHARA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED	DATE	SHEET NO
						CHECKED	DATE	PL-35
BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDUOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA		N8: CHAMBESHI ROAD (12/13)		S=1:500				



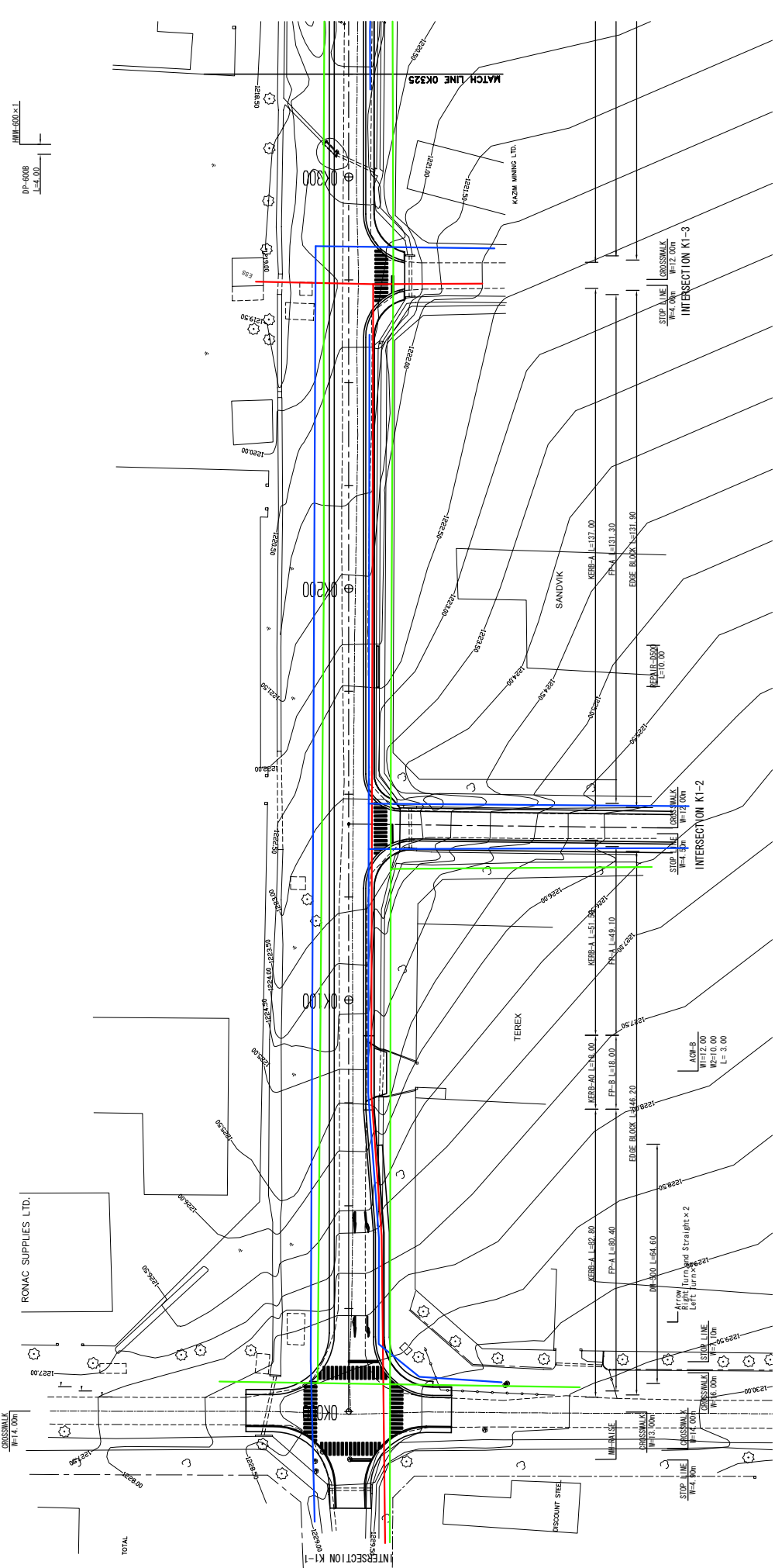
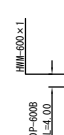
—	: Power Cable
—	: Telephone Cable
—	: Water Pipe
●	: Conflict Point

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NIDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHARA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED	DATE	SHEET NO
							CHECKED	DATE	PL-36
			N8: CHAMBESHI ROAD (13/13)	S=1500	DATE		SUBMITTED		



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		SCALE	APPROVED	DATE	SHEET NO
BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NODOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA		PLAN		DATE		PREPARED CHECKED
N9: LIVINGSTONE ROAD		S=1500		DATE		KATAPHA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS

- : Power Cable
- : Telephone Cable
- : Water Pipe
- : Conflict Point



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