

REPUBLIC OF KENYA



MINISTRY OF PUBLIC WORKS

DETAILED DESIGN STUDY

ON

THE NAIROBI BYPASS PROJECT

COORDINATE TABLES

SEPTEMBER 1992

Japan International  
Cooperation Agency

The Permanent Secretary  
Ministry of Public Works  
P.O. Box 30260  
NAIROBI

The Chief Engineer (Roads)  
Ministry of Public Works  
P.O. Box 30260  
NAIROBI



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国際協力事業団

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NOTE

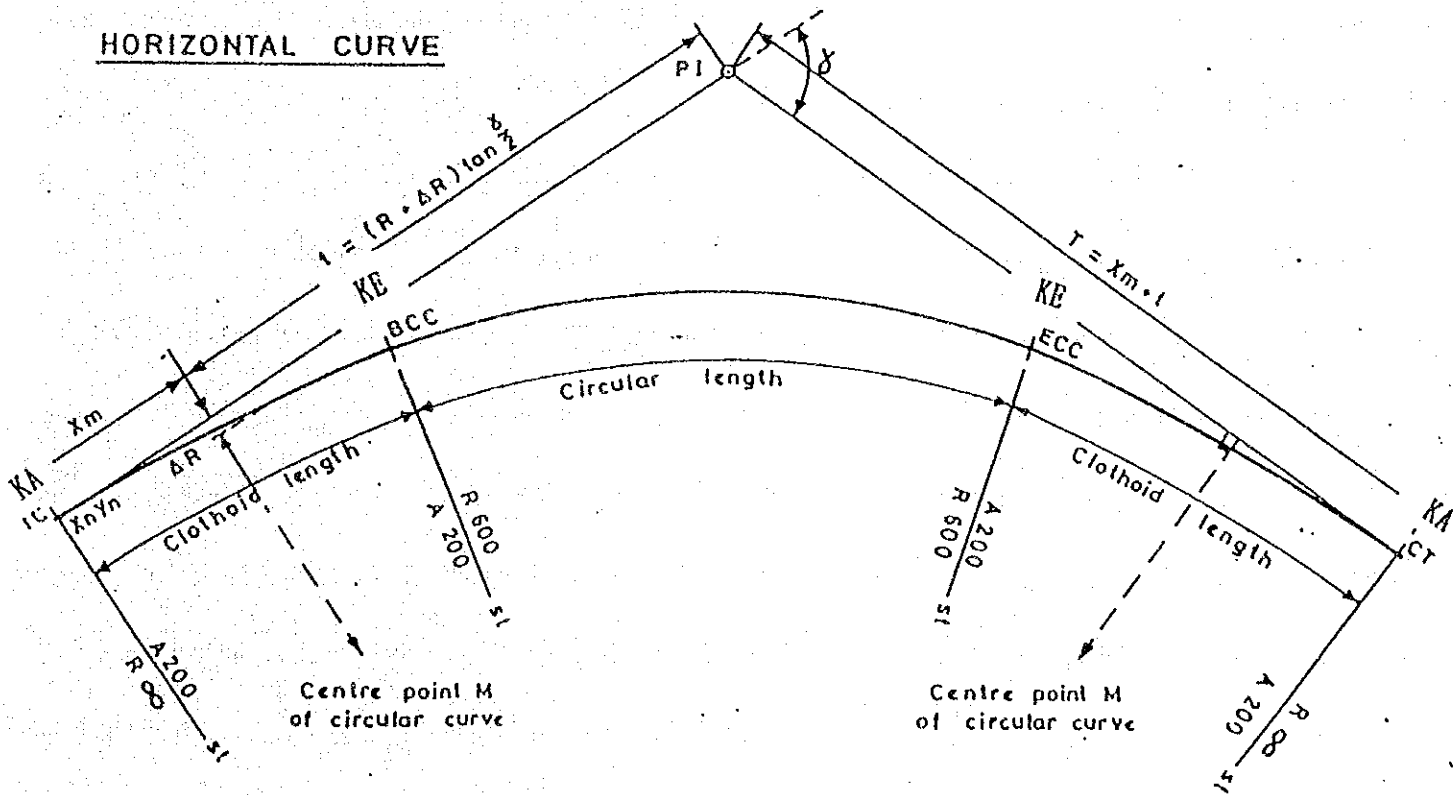
Symbols are shown as follows.

KA = TC      Tangent to clothoid (clothoid origin)

KE = BCC      Beginning of circle from clothoid end

KE = ECC      End of circle to clothoid

KA = CT      clothoid to tangent







1 MAIN ROAD

1-124

STATION NUMBER IS CHANGED AND PUT BRAKIN  
G POINT AS FOLLOW.

NO 00+00 — NO 15 km+484. 875 L=15484. 874

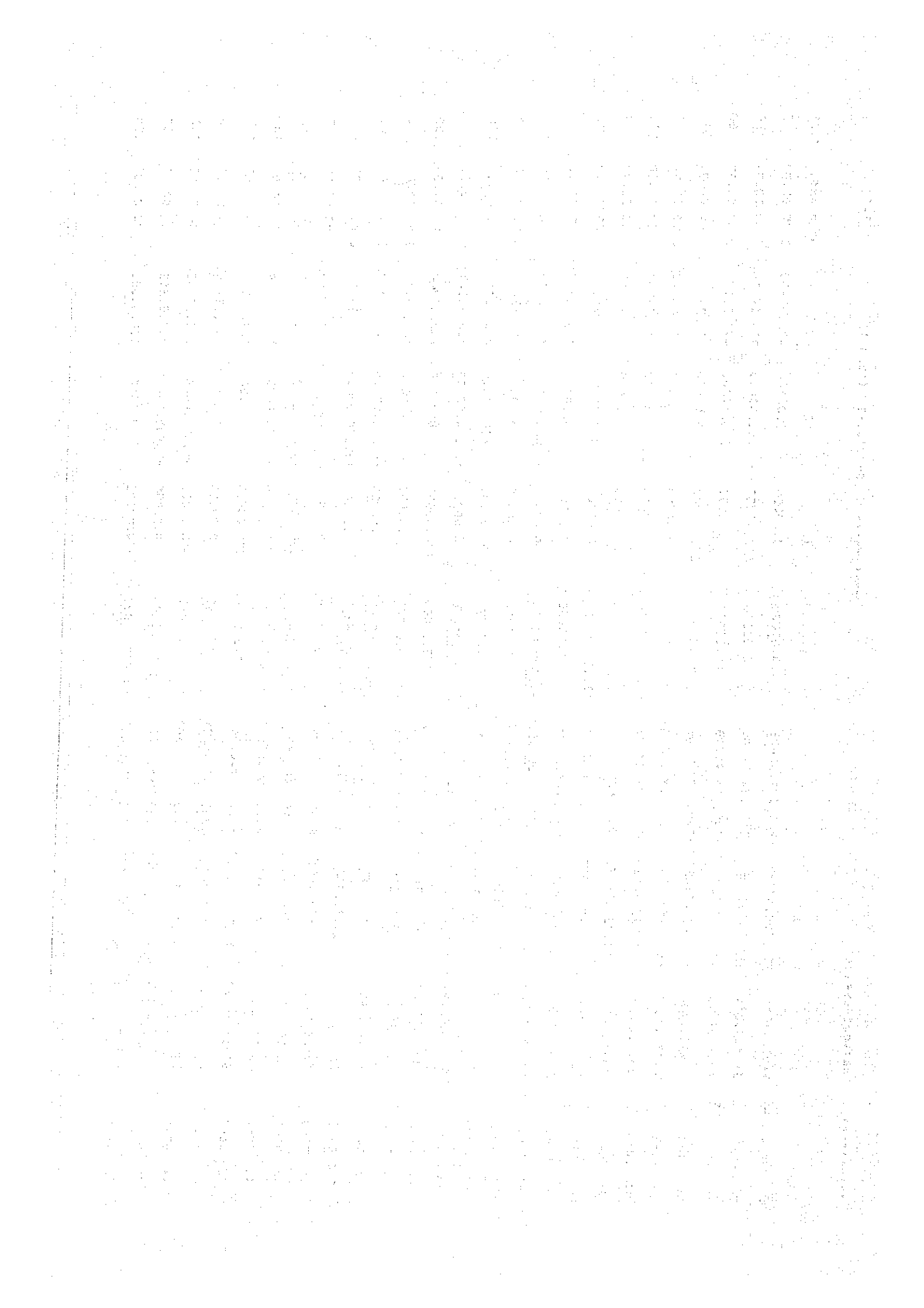
= (NO 15 km+300. 000)

— NO 28 km+416. 604 L=13116. 865

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28601. 479

NAME	S T A.	X	Y	R1	A	R2	L	ERROR	ANG.	TYPE
BP 00-0	-	1+02.41204	+54,200.43168	+260,591.58083	0.00000	0.00000	420.91218	0 00	00.00	0
KA -1-1		3+18.50014	+53,835.27755	+260,382.22530	0.00000	300.00000 + 700.00000	128.57143	0 00	00.00	200
KE -1-1		4+47.07156	+53,725.78842	+260,314.91790	+ 700.00000	0.00000 + 700.00000	497.55576	0 00	00.00	100
KE -1-2		9+44.62732	+53,449.52657	+259,913.67963	+ 700.00000	0.00000	128.57143	0 00	00.00	200
KA -1-2		10+73.19975	+53,425.71361	+259,737.38170	0.00000	0.00000	452.24465	0 00	00.00	0
SC 00-0		15+25.44341	+53,355.56180	+259,340.61112	-3,000.00000	0.00000 -3,000.00000	444.79945	0 00	00.00	100
EC 00-0		19+70.24286	+53,254.30173	+258,907.90940	0.00000	0.00000	756.79200	0 00	00.00	0
BC 01-0		27+27.03485	+53,027.75372	+258,185.82206	+3,000.00000	0.00000 +3,000.00000	782.25864	0 00	00.00	100
EC 01-0		35+09.29349	+52,892.98786	+257,417.50741	0.00000	0.00000	1,025.92171	0 00	00.00	0
BC 02-0		45+35.21521	+52,848.61860	+256,392.54559	+4,000.00000	0.00000 +4,000.00000	375.16719	0 00	00.00	100
EC 02-0		49+10.38240	+52,849.98154	+256,017.51837	0.00000	0.00000	180.87405	0 00	00.00	0
KA 03-1		50+91.25645	+52,859.11724	+255,836.87518	0.00000	400.00000 + 800.00000	200.00000	0 00	00.00	200
KE 03-1		52+91.25645	+52,877.51660	+255,637.86277	+ 800.00000	0.00000 + 800.00000	326.52607	0 00	00.00	100
KE 03-2		56+17.77652	+52,997.67176	+255,336.68802	+ 800.00000	0.00000	200.00000	0 00	00.00	200
KA 03-2		58+17.77652	+53,121.31520	+255,179.66325	0.00000	0.00000	184.08772	0 00	00.00	0
BC 04-0		60+01.86424	+53,241.12543	+255,039.89990	-4,000.00000	0.00000 -4,000.00000	377.31173	0 00	00.00	100
ERC 05-0		63+79.17597	+53,472.82737	+254,742.28803	+2,000.00000	0.00000 +2,000.00000	649.26211	0 00	00.00	100
EC 05-0		70+28.43808	+53,925.90386	+254,281.23061	0.00000	0.00000	421.66933	0 00	00.00	0
KA 06-1		74+50.10741	+54,266.17332	+254,032.18902	0.00000	300.00000 - 600.00000	150.00000	0 00	00.00	200
KE 06-1		76+00.10741	+54,383.34085	+253,938.69817	- 600.00000	0.00000 - 600.00000	553.39786	0 00	00.00	100
KE 06-2		81+53.50527	+54,567.85787	+253,437.60066	- 600.00000	0.00000	150.00000	0 00	00.00	200
KA 06-2		83+03.50527	+54,539.30067	+253,290.45021	0.00000	0.00000	55.03885	0 00	00.00	0
KA 07-1		83+58.54412	+54,526.57378	+253,236.90302	0.00000	500.00000 +1,000.00000	250.00000	0 00	00.00	200
KE 07-1		86+08.54412	+54,478.97845	+252,991.65227	+1,000.00000	0.00000 +1,000.00000	267.09355	0 00	00.00	100
KE 07-2		88+75.63768	+54,485.68859	+252,725.43648	+1,000.00000	0.00000	250.00000	0 00	00.00	200



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NAME	S	T	A.	X	Y	R1	A	R2	L	ERROR	ANG.	TYPE
KA 08-1	91+25.63768	+54,545.57905	+252,482.89498	0.00000	300.00000	-	600.00000	150.00000	0.00000	0.00	00.00	200
KE 08-1	92+75.63768	+54,581.51333	+252,337.37008	-	600.00000	-	600.00000	507.96634	0.00000	0.00	00.00	100
KE 08-2	97+83.60402	+54,452.62020	+251,861.58861	-	600.00000	-	600.00000	150.00000	0.00000	0.00	00.00	200
KA 09-1	99+33.60402	+54,348.14310	+251,754.10231	0.00000	300.00000	+	600.00000	150.00000	0.00000	0.00	00.00	200
KE 09-1	100+83.60402	+54,243.66601	+251,646.61601	+	600.00000	+	600.00000	332.28310	0.00000	0.00	00.00	100
KE 09-2	104+15.88712	+54,112.61197	+251,345.87752	+	600.00000	+	600.00000	150.00000	0.00000	0.00	00.00	200
KA 10-1	105+65.88712	+54,105.01259	+251,196.17442	0.00000	300.00000	-	600.00000	150.00000	0.00000	0.00	00.00	200
KE 10-1	107+15.88712	+54,097.41321	+251,046.47132	-	600.00000	-	600.00000	247.23419	0.00000	0.00	00.00	100
KE 10-2	109+63.12131	+54,015.92577	+250,815.04270	-	600.00000	-	600.00000	150.00000	0.00000	0.00	00.00	200
KA 11-1	111+13.12131	+53,927.28154	+250,693.87454	0.00000	300.00000	+	600.00000	150.00000	0.00000	0.00	00.00	200
KE 11-1	112+63.12131	+53,839.03731	+250,572.70637	+	600.00000	+	600.00000	159.81756	0.00000	0.00	00.00	100
KE 11-2	114+22.93887	+53,775.03220	+250,426.75426	+	600.00000	+	600.00000	150.00000	0.00000	0.00	00.00	200
KA 11-2	115+72.93887	+53,745.83952	+250,279.74049	0.00000	300.00000	0.00000	0.00000	982.33267	0.00000	0.00	00.00	0
KA 12-1	125+55.27155	+53,594.42693	+249,309.14700	0.00000	300.00000	+	600.00000	150.00000	0.00000	0.00	00.00	200
KE 12-1	127+05.27155	+53,577.51109	+249,160.20868	+	600.00000	+	600.00000	191.02669	0.00000	0.00	00.00	100
KE 12-2	128+96.29824	+53,602.06387	+248,971.57901	+	600.00000	+	600.00000	150.00000	0.00000	0.00	00.00	200
KA 12-2	130+46.29824	+53,656.54289	+248,831.93373	0.00000	300.00000	0.00000	0.00000	437.86619	0.00000	0.00	00.00	0
KA 13-1	134+84.16442	+53,832.53505	+248,430.99289	0.00000	350.00000	+	1,000.00000	122.50000	0.00000	0.00	00.00	200
KE 13-1	136+06.66442	+53,884.04269	+248,319.87039	+	1,000.00000	+	1,000.00000	317.73223	0.00000	0.00	00.00	100
KE 13-2	139+24.39665	+54,071.40174	+248,064.91175	+	1,000.00000	+	1,000.00000	122.50000	0.00000	0.00	00.00	200
KA 13-2	140+46.89665	+54,162.06718	+247,982.56478	0.00000	300.00000	0.00000	0.00000	548.18606	0.00000	0.00	00.00	0
KA 14-1	145+95.08271	+54,575.30112	+247,622.36252	0.00000	300.00000	+	600.00000	150.00000	0.00000	0.00	00.00	200
KE 14-1	147+45.08271	+54,692.29983	+247,528.66049	+	600.00000	+	600.00000	120.00350	0.00000	0.00	00.00	100
KE 14-2	148+65.08621	+54,797.89711	+247,472.07328	+	600.00000	+	600.00000	150.00000	0.00000	0.00	00.00	200
KA 15-1	150+15.08621	+54,540.71211	+247,426.54696	0.00000	300.00000	-	600.00000	150.00000	0.00000	0.00	00.00	200

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\*\*\*\*\* S-12331-I (FORM 1)

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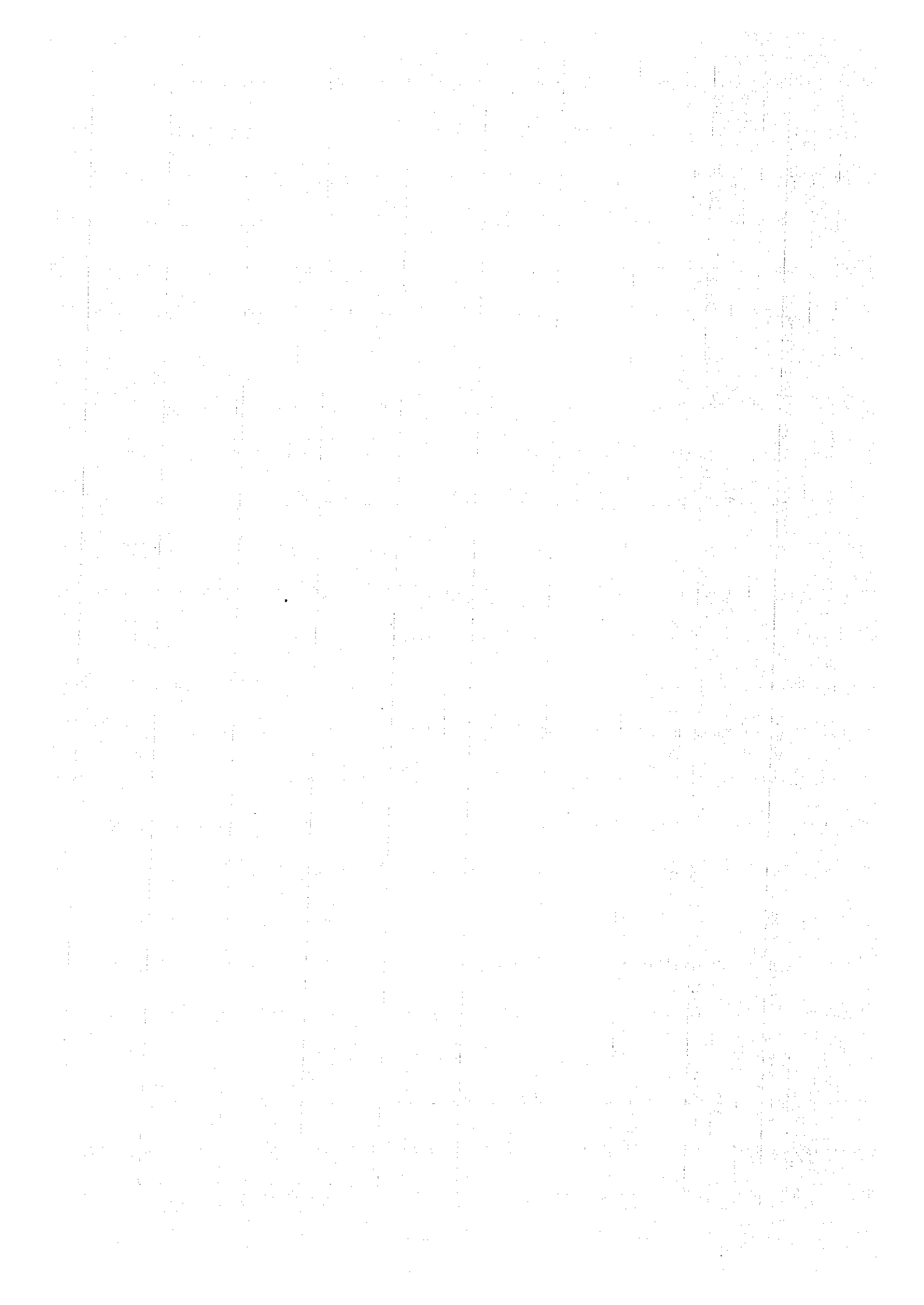
CENTER

NAIROBI BYPASS

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NAME	S	T	A.	X	Y	R1	A	R2	L	ERROR	ANG.	TYPE
XE 15-1	151	65	08621	+55,083.52711	+247,381.02065	- 600.00000	0.00000	- 600.00000	207.28874	0 00	00.00	100
XE 15-2	153	72	37496	+55,257.76745	+247,270.64295	- 600.00000	300.00000	-2,400.00000	112.50000	0 00	00.00	200
BRK	-	154	84.87496	+55,335.47528	+247,189.38459							

= NO 153 + 00.00



NAME	S T A.	X	Y	R1	A	R2	L	ERROR	ANG.	TYPE
<del>KA 00-1</del>	<del>91+25.63768</del>	<del>+54,545.57905</del>	<del>+252,482.89498</del>	<del>0.00000</del>	<del>300.00000</del>	<del>600.00000</del>	<del>150.00000</del>	<del>0.00</del>	<del>00.00</del>	<del>200</del>
KE 08-1	92+75.63768	+54,581.51333	+252,337.37008	- 600.00000	0.00000	- 600.00000	227.31599	0 00	00.00	100
XE 08-2	95+02.95367	+54,574.58134	+252,111.51750	- 600.00000	300.00000	0.00000	150.00000	0 00	00.00	200
KA 06-2	96+52.95367	+54,529.79006	+251,968.47027	0.00000	0.00000	0.00000	900.70543	0 00	00.00	0
KA 09-1	105+33.65909	+54,225.07841	+251,120.87290	0.00000	400.00000	-1,000.00000	160.00000	0 00	00.00	200
KE 09-1	107+13.65909	+54,166.97172	+250,971.84603	-1,000.00000	0.00000	-1,000.00000	117.52144	0 00	00.00	100
KE 09-2	108+31.18053	+54,112.33034	+250,867.87597	-1,000.00000	400.00000	0.00000	160.00000	0 00	00.00	200
KA 10-1	109+91.16053	+54,022.54662	+250,735.49684	0.00000	400.00000	+1,000.00000	160.00000	0 00	00.00	200
KE 10-1	111+51.18053	+53,952.76239	+250,603.11771	+1,000.00000	0.00000	+1,000.00000	305.65099	0 00	00.00	100
KE 10-2	114+56.83153	+53,817.06308	+250,321.49537	+1,000.00000	400.00000	0.00000	160.00000	0 00	00.00	200
KA 10-2	116+16.83153	+53,787.35251	+250,164.23063	0.00000	0.00000	0.00000	768.90089	0 00	00.00	0
KA 11-1	123+85.73241	+53,667.64306	+249,404.78466	0.00000	400.00000	+1,000.00000	160.00000	0 00	00.00	200
KE 11-1	125+45.73241	+53,655.85704	+249,246.18648	+1,000.00000	0.00000	+1,000.00000	842.18145	0 00	00.00	100
KE 11-2	133+87.91386	+53,922.65016	+248,476.59926	+1,000.00000	400.00000	0.00000	160.00000	0 00	00.00	200
KA 11-2	135+47.91386	+54,039.44000	+248,367.30346	0.00000	0.00000	0.00000	1,309.14396	0 00	00.00	0
KA 12-1	148+57.05782	+55,018.81400	+247,498.57768	0.00000	800.00000	-2,400.00000	266.66667	0 00	00.00	200
<del>KA 12-1</del>	<del>151+23.72569</del>	<del>+55,216.97623</del>	<del>+247,317.98329</del>	<del>-2,400.00000</del>	<del>0.00000</del>	<del>2,400.00000</del>	<del>1,332.97955</del>	<del>0.00</del>	<del>00.00</del>	<del>100</del>
BRK	153+02.000									
KE 12-2	164+56.70404	+55,850.59378	+246,170.77544	-2,400.00000	800.00000	0.00000	266.66667	0 00	00.00	200
KA 12-2	167+23.37071	+55,911.83231	+245,909.31275	0.00000	0.00000	0.00000	278.21475	0 00	00.00	0
BC 13-0	170+01.53546	+55,961.27931	+245,635.52736	-4,000.00000	0.00000	-4,000.00000	339.87672	0 00	00.00	100
EC 13-0	173+41.46218	+56,007.41173	+245,298.89922	0.00000	0.00000	0.00000	376.03054	0 00	00.00	0
KA 14-1	177+17.49272	+56,042.59788	+244,924.51853	0.00000	300.00000	+ 600.00000	150.00000	0 00	00.00	200
KE 14-1	178+67.49272	+56,062.82749	+244,775.99402	+ 600.00000	0.00000	+ 600.00000	268.76389	0 00	00.00	100
XE 14-2	181+36.25661	+56,176.94570	+244,535.16237	+ 600.00000	300.00000	0.00000	150.00000	0 00	00.00	200
KA 15-1	182+86.25661	+56,279.16925	+244,425.48404	0.00000	750.00000	-1,250.00000	450.00000	0 00	00.00	200



NAME	S T A.	X	Y	R1	A	R2	L	ERROR ANG.	TYPE
KE 15-1	187+36.25661	+56,579.38611	+244,091.13768	-1,250.00000	0.00000	-1,250.00000	315.73515	0 00 00.00	100
KE 15-2	190+51.99175	+56,726.29249	+243,812.60905	-1,250.00000	750.00000	0.00000	450.00000	0 00 00.00	200
KA 15-2	195+01.99175	+56,832.68780	+243,376.03425	0.00000	0.00000	0.00000	163.17473	0 00 00.00	0
KA 16-1	196+65.16648	+56,861.75021	+243,215.46847	0.00000	500.00000	+1,200.00000	208.33333	0 00 00.00	200
KE 16-1	198+73.49981	+56,904.75627	+243,011.69362	+1,200.00000	0.00000	+1,200.00000	802.73173	0 00 00.00	100
KA 16-2	206+76.23154	+57,349.82866	+242,361.60511	+1,200.00000	500.00000	0.00000	208.33333	0 00 00.00	200
KA 17-1	206+84.56487	+57,524.24850	+242,267.80043	0.00000	500.00000	-1,200.00000	208.33333	0 00 00.00	200
KE 17-1	210+92.89821	+57,698.66814	+242,133.99575	-1,200.00000	0.00000	-1,200.00000	470.24286	0 00 00.00	100
KE 17-2	215+63.14106	+59,013.33412	+241,788.59978	-1,200.00000	500.00000	0.00000	208.33333	0 00 00.00	200
KA 18-1	217+71.47440	+58,110.44101	+241,604.36089	0.00000	400.00000	+1,000.00000	160.00000	0 00 00.00	200
KE 18-1	219+31.47440	+58,184.70173	+241,662.68949	+1,000.00000	0.00000	+1,000.00000	171.75648	0 00 00.00	100
KE 18-2	221+03.23088	+58,284.65660	+241,323.27335	+1,000.00000	400.00000	0.00000	160.00000	0 00 00.00	200
KA 18-2	222+63.23088	+58,394.99482	+241,207.66784	0.00000	0.00000	0.00000	865.87364	0 00 00.00	0
BC 19-0	231+29.10452	+59,008.78488	+240,596.73146	-4,000.00000	0.00000	-4,000.00000	523.26795	0 00 00.00	100
EC 19-0	236+52.37247	+59,354.54899	+240,204.47353	0.00000	0.00000	0.00000	431.54455	0 00 00.00	0
KA 20-1	240+83.91702	+59,613.13789	+239,862.78422	0.00000	400.00000	+750.00000	213.33333	0 00 00.00	200
KE 20-1	242+97.25035	+59,756.17549	+239,700.38051	+750.00000	0.00000	+750.00000	737.47874	0 00 00.00	100
KE 20-2	250+34.72909	+60,436.75282	+239,504.79053	+750.00000	400.00000	0.00000	213.33333	0 00 00.00	200
KA 20-2	252+48.06242	+60,639.95277	+239,569.12655	0.00000	0.00000	0.00000	729.09867	0 00 00.00	0
BC 21-0	259+77.16110	+61,323.83558	+239,821.88963	-4,000.00000	0.00000	-4,000.00000	967.99631	0 00 00.00	100
EC 21-0	269+45.15740	+62,263.37187	+240,044.37934	0.00000	0.00000	0.00000	724.64299	0 00 00.00	0
KA 22-1	276+69.80039	+62,983.47230	+240,125.89063	0.00000	400.00000	+1,000.00000	160.00000	0 00 00.00	200
KE 22-1	273+29.80039	+63,141.89081	+240,148.00434	+1,000.00000	0.00000	+1,000.00000	459.68841	0 00 00.00	100
EC 23-0	282+89.43880	+63,557.59254	+240,334.58097	-1,400.00000	0.00000	-1,400.00000	126.59642	0 00 00.00	100
EC 23-0	284+16.06522	+63,661.57449	+240,406.71529	0.00000	0.00000	0.00000	0.51798	0 00 00.00	0
EP 00-0	284+16.60320	+63,662.01300	+240,406.99100						

CENTER

NAIROBI BYPASS

420.9122

L=

-1-1

SP 00-0 / KA

R1= 0.0000  
 A = 0.0000  
 R2= 0.0000

S T A.	X	Y	T	D	A
- 1+02.4120	+54,200.4317	+260,591.5808	209 49 37.50	2.4120	209 49 37.50
- 1+00.0000	+54,198.3392	+260,590.3611	209 49 37.50	20.0000	209 49 37.50
- 0+20.0000	+54,180.9885	+260,580.4334	209 49 37.50	20.0000	209 49 37.50
- 0+60.0000	+54,163.6379	+260,570.4856	209 49 37.50	20.0000	209 49 37.50
- 0+40.0000	+54,146.2273	+260,560.5381	209 49 37.50	20.0000	209 49 37.50
- 0+20.0000	+54,128.9367	+260,550.5904	209 49 37.50	20.0000	209 49 37.50
0+00.0000	+54,111.5861	+260,540.6427	209 49 37.50	20.0000	209 49 37.50
0+20.0000	+54,094.2355	+260,530.6950	209 49 37.50	20.0000	209 49 37.50
0+40.0000	+54,076.8849	+260,520.7473	209 49 37.50	20.0000	209 49 37.50
0+60.0000	+54,059.5343	+260,510.7997	209 49 37.50	20.0000	209 49 37.50
0+80.0000	+54,042.1837	+260,500.8520	209 49 37.50	20.0000	209 49 37.50
1+00.0000	+54,024.8331	+260,490.9043	209 49 37.50	20.0000	209 49 37.50
1+20.0000	+54,007.4825	+260,480.9566	209 49 37.50	20.0000	209 49 37.50
1+40.0000	+53,990.1319	+260,471.0089	209 49 37.50	20.0000	209 49 37.50
1+60.0000	+53,972.7812	+260,461.0612	209 49 37.50	20.0000	209 49 37.50
1+80.0000	+53,955.4306	+260,451.1136	209 49 37.50	20.0000	209 49 37.50
2+00.0000	+53,938.0800	+260,441.1659	209 49 37.50	20.0000	209 49 37.50
2+20.0000	+53,920.7294	+260,431.2182	209 49 37.50	20.0000	209 49 37.50
2+40.0000	+53,903.3788	+260,421.2705	209 49 37.50	20.0000	209 49 37.50
2+60.0000	+53,886.0282	+260,411.3228	209 49 37.50	20.0000	209 49 37.50
2+80.0000	+53,868.6776	+260,401.3752	209 49 37.50	20.0000	209 49 37.50
3+00.0000	+53,851.3270	+260,391.4275	209 49 37.50	20.0000	209 49 37.50
3+18.5001	+53,833.2776	+260,382.2258	209 49 37.50	18.5001	209 49 37.50

KA -1-1 / KE -1-1 L= 128.5714

R1= 0.0000  
A = 300.0000  
R2= + 700.0000

S T A-	X	Y	T	D	A
3+16.5001	+53,835.2776	+260,382.2258	209 49 37.50	1.4999	209 49 38.36
3+20.0000	+53,833.9764	+260,381.4798	209 49 40.08	20.0000	209 52 47.25
3+40.0000	+53,816.6369	+260,371.5161	209 58 27.20	20.0000	210 09 12.73
3+60.0000	+53,799.3413	+260,361.4698	210 22 31.04	19.9999	210 40 54.94
3+80.0000	+53,782.1411	+260,351.2644	211 01 51.62	19.9998	211 27 53.89
4+00.0000	+53,765.0821	+260,340.8250	211 56 28.94	19.9997	212 30 09.56
4+20.0000	+53,748.2151	+260,330.0784	213 06 22.98	19.9995	213 47 41.98
4+40.0000	+53,731.5949	+260,318.9542	214 31 33.76	7.0715	214 48 17.42
4+47.0716	+53,725.7886	+260,314.9179	215 05 20.19		

CENTER

NAIROBI BYPASS

\*\*\*\*\* NAIROBI BYPASS CENTER \*\*\*\*\* S-01922-I (FORM 9)

KE -1-1 / KE -1-2 L= 497.5558  
R1= + 700.0000  
A = 0.0000  
R2= + 700.0000

S T A.	X	Y	T	D	A
4+47.0716	+53,725.7834	+260,314.9179	215 05 20.19	12.9283	215 37 04.96
4+60.0000	+53,715.2768	+260,307.3883	216 03 49.74	19.9993	216 57 56.38
4+80.0000	+53,699.2994	+260,295.3624	217 47 03.02	19.9993	218 36 09.66
5+00.0000	+53,683.6701	+260,282.8845	219 25 16.30	19.9993	220 14 22.94
5+20.0000	+53,668.4037	+260,269.9652	221 03 29.58	19.9993	221 52 36.22
5+40.0000	+53,653.5125	+260,256.6151	222 41 42.86	19.9993	223 30 49.50
5+60.0000	+53,639.0089	+260,242.8450	224 19 56.14	19.9993	225 09 02.78
5+80.0000	+53,624.9045	+260,228.6662	225 58 09.42	19.9993	226 47 16.06
6+00.0000	+53,611.2109	+260,214.0902	227 36 22.70	19.9993	228 25 29.34
6+20.0000	+53,597.9393	+260,199.1290	229 14 35.98	19.9993	230 03 42.62
6+40.0000	+53,585.1005	+260,183.7948	230 52 49.26	19.9993	231 41 55.90
6+60.0000	+53,572.7050	+260,168.1000	232 31 02.54	19.9993	233 20 09.18
6+80.0000	+53,560.7630	+260,152.0576	234 09 15.82	19.9993	234 58 22.46
7+00.0000	+53,549.2841	+260,135.6805	235 47 29.10	19.9993	236 36 35.74
7+20.0000	+53,538.2778	+260,118.9822	237 25 42.38	19.9993	238 14 49.02
7+40.0000	+53,527.7529	+260,101.9763	239 03 55.66	19.9993	239 53 02.30
7+60.0000	+53,517.7182	+260,084.6767	240 42 08.94	19.9993	241 31 15.58
7+80.0000	+53,508.1818	+260,067.0975	242 20 22.22	19.9993	243 09 28.86
8+00.0000	+53,499.1515	+260,049.2530	243 58 35.50	19.9993	244 47 42.14
8+20.0000	+53,490.6346	+260,031.1578	245 36 48.78	19.9993	246 25 55.42
8+40.0000	+53,482.6382	+260,012.8267	247 15 02.06	19.9993	248 04 08.70
8+60.0000	+53,475.1687	+259,994.2746	248 53 15.34	19.9993	249 42 21.98
8+80.0000	+53,468.2322	+259,975.5167	250 31 28.62	19.9993	251 20 35.26
9+00.0000	+53,461.8344	+259,956.5683	252 09 41.90	19.9993	252 58 48.54

CENTER

NAIROBI BYPASS

KE -1-1 / KE -1-2

9+20.0000	+53,455.9805	+259,937.4449	253 47 55.18	19.9993	254 37 01.82
9+40.0000	+53,450.6754	+259,918.1621	255 26 02.46	4.6273	255 37 30.21
9+44.6273	+53,449.5266	+259,913.6796	255 43 51.97		

KE -1-2 / KA -1-2 L= 128.5714

R1= + 700.0000  
 A = 300.0000  
 R2= 0.0000

S T A.	X	Y	T	D	A
9+44.6273	+53,449.5266	+259,913.6796	255 48 51.97	15.3724	256 25 06.59
9+60.0000	+53,445.9167	+259,898.7371	256 59 50.94	19.9996	257 40 32.47
9+80.0000	+53,441.6479	+259,879.1984	258 18 41.22	19.9997	258 51 44.39
10+00.0000	+53,437.7846	+259,859.5754	259 22 14.77	19.9998	259 47 39.57
10+20.0000	+53,434.2410	+259,839.8920	260 10 31.59	19.9999	260 28 18.03
10+40.0000	+53,430.9303	+259,820.1680	260 43 31.67	20.0000	260 53 39.74
10+60.0000	+53,427.7652	+259,800.4200	261 01 15.03	13.1988	261 03 22.11
10+73.1988	+53,425.7136	+259,787.3817	261 04 34.65		



KA -1-2 / BC 00-0 L= 452.2447

R1= 0.0000  
 A = 0.0000  
 R2= 0.0000

S T A.	X	Y	T	0	A
10+73.1988	+53,425.7136	+259,737.3817	261 04 34.65	6.8012	261 04 34.65
10+80.0000	+53,424.6586	+259,780.6628	261 04 34.65	20.0000	261 04 34.65
11+00.0000	+53,421.5562	+259,760.9049	261 04 34.65	20.0000	261 04 34.65
11+20.0000	+53,418.4538	+259,741.1469	261 04 34.65	20.0000	261 04 34.65
11+40.0000	+53,415.3515	+259,721.3890	261 04 34.65	20.0000	261 04 34.65
11+60.0000	+53,412.2491	+259,701.6311	261 04 34.65	20.0000	261 04 34.65
11+80.0000	+53,409.1467	+259,681.3732	261 04 34.65	20.0000	261 04 34.65
12+00.0000	+53,406.0443	+259,662.1153	261 04 34.65	20.0000	261 04 34.65
12+20.0000	+53,402.9419	+259,642.3574	261 04 34.65	20.0000	261 04 34.65
12+40.0000	+53,399.8395	+259,622.5995	261 04 34.65	20.0000	261 04 34.65
12+60.0000	+53,396.7372	+259,602.8415	261 04 34.65	20.0000	261 04 34.65
12+80.0000	+53,393.6348	+259,583.0836	261 04 34.65	20.0000	261 04 34.65
13+00.0000	+53,390.5324	+259,563.3257	261 04 34.65	20.0000	261 04 34.65
13+20.0000	+53,387.4300	+259,543.5678	261 04 34.65	20.0000	261 04 34.65
13+40.0000	+53,384.3276	+259,523.8099	261 04 34.65	20.0000	261 04 34.65
13+60.0000	+53,381.2252	+259,504.0520	261 04 34.65	20.0000	261 04 34.65
13+80.0000	+53,378.1229	+259,484.2940	261 04 34.65	20.0000	261 04 34.65
14+00.0000	+53,375.0205	+259,464.5361	261 04 34.65	20.0000	261 04 34.65
14+20.0000	+53,371.9181	+259,444.7782	261 04 34.65	20.0000	261 04 34.65
14+40.0000	+53,368.8157	+259,425.0203	261 04 34.65	20.0000	261 04 34.65
14+60.0000	+53,365.7133	+259,405.2624	261 04 34.65	20.0000	261 04 34.65
14+80.0000	+53,362.6109	+259,385.5045	261 04 34.65	20.0000	261 04 34.65
15+00.0000	+53,359.5086	+259,365.7466	261 04 34.65	20.0000	261 04 34.65
15+20.0000	+53,356.4062	+259,345.9886	261 04 34.65	5.4434	261 04 34.65

S-01922-I (FORM 9)

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NAIROBI BYPASS

KA -1-2 / BC 00-0

15+25.4436 +55,355.5618 +259,340.6111 261 04 34.65



BC 00-0 / EC 00-0 L= 444.7995

R1= - 3,000.0000  
 A = 0.0000  
 R2= - 3,000.0000

S T A.	X	Y	T	D	A
15+25.4434	+53,355.5618	+259,340.6111	261 06 34.65	14.5566	260 56 14.23
15+40.0000	+53,353.2689	+259,326.2363	260 47 53.81	20.0000	260 36 26.27
15+60.0000	+53,350.0049	+259,306.5044	260 24 58.72	20.0000	260 13 31.17
15+80.0000	+53,346.6094	+259,286.7948	260 02 03.62	20.0000	259 50 36.07
16+00.0000	+53,343.0826	+259,267.1023	259 39 08.52	20.0000	259 27 40.97
16+20.0000	+53,339.4247	+259,247.4457	259 16 13.42	20.0000	259 04 45.87
16+40.0000	+53,335.6357	+259,227.8079	258 53 18.32	20.0000	258 41 50.77
16+60.0000	+53,331.7159	+259,208.1958	258 30 23.22	20.0000	258 18 55.67
16+80.0000	+53,327.6655	+259,188.6103	258 07 28.12	20.0000	257 56 00.57
17+00.0000	+53,323.4846	+259,169.0522	257 44 33.02	20.0000	257 33 05.48
17+20.0000	+53,319.1733	+259,149.5224	257 21 37.93	20.0000	257 10 10.38
17+40.0000	+53,314.7320	+259,130.0218	256 58 42.83	20.0000	256 47 15.28
17+60.0000	+53,310.1608	+259,110.5313	256 35 47.73	20.0000	256 24 20.18
17+80.0000	+53,305.4598	+259,091.1117	256 12 52.63	20.0000	256 01 25.08
18+00.0000	+53,300.6294	+259,071.7038	255 49 57.53	20.0000	255 38 29.98
18+20.0000	+53,295.6697	+259,052.3285	255 27 02.43	20.0000	255 15 34.88
18+40.0000	+53,290.5810	+259,032.9868	255 04 07.33	20.0000	254 52 39.78
18+60.0000	+53,285.3634	+259,013.6794	254 41 12.24	20.0000	254 29 44.69
18+80.0000	+53,280.0172	+258,994.4072	254 18 17.14	20.0000	254 06 49.59
19+00.0000	+53,274.5426	+258,975.1711	253 55 22.04	20.0000	253 43 54.49
19+20.0000	+53,268.9400	+258,955.9719	253 32 26.94	20.0000	253 20 59.39
19+40.0000	+53,263.2094	+258,936.8105	253 09 31.84	20.0000	252 58 04.29
19+60.0000	+53,257.3513	+258,917.6878	252 46 36.74	10.2429	252 40 44.62
19+70.2429	+53,254.3017	+258,907.9094	252 34 52.49		

CENTER

HAIROBI BYPASS

EC 00-0 / BC 01-0 L= 756.7920

R1= 0.0000  
A = 0.0000  
R2= 0.0000

S	T	A	X	Y	T	D	A
19	+70	-2429	+53,254.3017	+258,907.9094	252 34 52.49	9.7571	252 34 52.49
19	+80	-0000	+53,251.3809	+258,898.5997	252 34 52.49	20.0000	252 34 52.49
20	+00	-0000	+53,245.3938	+258,879.5168	252 34 52.49	20.0000	252 34 52.49
20	+20	-0000	+53,239.4068	+258,860.4340	252 34 52.49	20.0000	252 34 52.49
20	+40	-0000	+53,233.4197	+258,841.3512	252 34 52.49	20.0000	252 34 52.49
20	+60	-0000	+53,227.4327	+258,822.2683	252 34 52.49	20.0000	252 34 52.49
20	+80	-0000	+53,221.4456	+258,803.1855	252 34 52.49	20.0000	252 34 52.49
21	+00	-0000	+53,215.4585	+258,784.1026	252 34 52.49	20.0000	252 34 52.49
21	+20	-0000	+53,209.4715	+258,765.0198	252 34 52.49	20.0000	252 34 52.49
21	+40	-0000	+53,203.4844	+258,745.9369	252 34 52.49	20.0000	252 34 52.49
21	+60	-0000	+53,197.4973	+258,726.8541	252 34 52.49	20.0000	252 34 52.49
21	+80	-0000	+53,191.5103	+258,707.7712	252 34 52.49	20.0000	252 34 52.49
22	+00	-0000	+53,185.5232	+258,688.6884	252 34 52.49	20.0000	252 34 52.49
22	+20	-0000	+53,179.5362	+258,669.6055	252 34 52.49	20.0000	252 34 52.49
22	+40	-0000	+53,173.5491	+258,650.5227	252 34 52.49	20.0000	252 34 52.49
22	+60	-0000	+53,167.5620	+258,631.4398	252 34 52.49	20.0000	252 34 52.49
22	+80	-0000	+53,161.5750	+258,612.3570	252 34 52.49	20.0000	252 34 52.49
23	+00	-0000	+53,155.5879	+258,593.2741	252 34 52.49	20.0000	252 34 52.49
23	+20	-0000	+53,149.6009	+258,574.1913	252 34 52.49	20.0000	252 34 52.49
23	+40	-0000	+53,143.6138	+258,555.1084	252 34 52.49	20.0000	252 34 52.49
23	+60	-0000	+53,137.6267	+258,536.0256	252 34 52.49	20.0000	252 34 52.49
23	+80	-0000	+53,131.6397	+258,516.9427	252 34 52.49	20.0000	252 34 52.49
24	+00	-0000	+53,125.6526	+258,497.8599	252 34 52.49	20.0000	252 34 52.49
24	+20	-0000	+53,119.6655	+258,478.7770	252 34 52.49	20.0000	252 34 52.49

EC 00-0 / BC 01-0

24+60.0000	+53,113.6785	+258,459.6942	252 34 52.49	20.0000	252 34 52.49
24+60.0000	+53,107.6914	+258,440.6113	252 34 52.49	20.0000	252 34 52.49
24+80.0000	+53,101.7044	+258,421.5285	252 34 52.49	20.0000	252 34 52.49
25+00.0000	+53,095.7175	+258,402.4456	252 34 52.49	20.0000	252 34 52.49
25+20.0000	+53,089.7302	+258,383.3628	252 34 52.49	20.0000	252 34 52.49
25+40.0000	+53,083.7432	+258,364.2799	252 34 52.49	20.0000	252 34 52.49
25+60.0000	+53,077.7561	+258,345.1971	252 34 52.49	20.0000	252 34 52.49
25+80.0000	+53,071.7691	+258,326.1143	252 34 52.49	20.0000	252 34 52.49
26+00.0000	+53,065.7820	+258,307.0314	252 34 52.49	20.0000	252 34 52.49
26+20.0000	+53,059.7949	+258,287.9486	252 34 52.49	20.0000	252 34 52.49
26+40.0000	+53,053.8079	+258,268.8657	252 34 52.49	20.0000	252 34 52.49
26+60.0000	+53,047.8208	+258,249.7829	252 34 52.49	20.0000	252 34 52.49
26+80.0000	+53,041.8337	+258,230.7000	252 34 52.49	20.0000	252 34 52.49
27+00.0000	+53,035.8467	+258,211.6172	252 34 52.49	20.0000	252 34 52.49
27+20.0000	+53,029.8596	+258,192.5343	252 34 52.49	7.0349	252 34 52.49
27+27.0349	+53,027.7537	+258,185.8221	252 34 52.49		

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NAIROBI BYPASS

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782.2586

L=

01-0

BC 01-0 / EC 01-0

R1= + 3,000.0000  
A = 0.0000  
R2= + 3,000.0000

S T A.	X	Y	T	D	A
27+27.0349	+53,027.7537	+258,185.8221	252 34 52.49	12.9651	252 42 18.20
27+40.0000	+53,023.8993	+258,173.4431	252 49 43.91	20.0000	253 01 11.46
27+60.0000	+53,018.0585	+258,154.3150	253 12 39.01	20.0000	253 24 06.56
27+80.0000	+53,012.3454	+258,135.1484	253 35 34.11	20.0000	253 47 01.66
28+00.0000	+53,006.7601	+258,115.9442	253 58 29.21	20.0000	254 09 56.76
28+20.0000	+53,001.3030	+258,096.7031	254 21 24.31	20.0000	254 32 51.86
28+40.0000	+52,995.9743	+258,077.4261	254 44 19.41	20.0000	254 55 46.96
28+60.0000	+52,990.7743	+258,058.1140	255 07 14.50	20.0000	255 18 42.05
28+80.0000	+52,985.7031	+258,038.7676	255 30 09.60	20.0000	255 41 37.15
29+00.0000	+52,980.7609	+258,019.3879	255 53 04.70	20.0000	256 04 32.25
29+20.0000	+52,975.9481	+257,999.9756	256 15 59.80	20.0000	256 27 27.35
29+40.0000	+52,971.2648	+257,980.5317	256 38 54.90	20.0000	256 50 22.45
29+60.0000	+52,966.7113	+257,961.0570	257 01 50.00	20.0000	257 13 17.55
29+80.0000	+52,962.2876	+257,941.5524	257 24 45.10	20.0000	257 36 12.65
30+00.0000	+52,957.9941	+257,922.0183	257 47 40.20	20.0000	257 59 07.74
30+20.0000	+52,953.8310	+257,902.4569	258 10 35.29	20.0000	258 22 02.84
30+40.0000	+52,949.7983	+257,882.8677	258 33 30.39	20.0000	258 44 57.94
30+60.0000	+52,945.8963	+257,863.2521	258 56 25.49	20.0000	259 07 53.04
30+80.0000	+52,942.1251	+257,843.6109	259 19 20.59	20.0000	259 30 48.14
31+00.0000	+52,938.4850	+257,823.9450	259 42 15.69	20.0000	259 53 43.24
31+20.0000	+52,934.9761	+257,804.2552	260 05 10.79	20.0000	260 16 38.34
31+40.0000	+52,931.5985	+257,784.5425	260 28 05.89	20.0000	260 39 33.44
31+60.0000	+52,928.3524	+257,764.8078	260 51 00.99	20.0000	261 02 28.53
31+80.0000	+52,925.2380	+257,745.0518	261 13 56.08	20.0000	261 25 23.63

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NAIROBI BYPASS

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BC 01-0 / EC 01-0

32+00.0000	+52,922.2553	+257,725.2755	261 36 51.18	20.0000	261 48 18.73
32+20.0000	+52,919.4045	+257,705.4797	261 59 46.28	20.0000	262 11 13.83
32+40.0000	+52,916.6858	+257,685.6654	262 22 41.38	20.0000	262 34 08.93
32+60.0000	+52,914.0992	+257,665.8334	262 45 36.48	20.0000	262 57 04.03
32+80.0000	+52,911.6449	+257,645.9846	263 08 31.58	20.0000	263 19 59.13
33+00.0000	+52,909.3229	+257,626.1199	263 31 26.68	20.0000	263 42 54.23
33+20.0000	+52,907.1335	+257,606.2401	263 54 21.77	20.0000	264 05 49.32
33+40.0000	+52,905.0766	+257,586.3462	264 17 16.87	20.0000	264 28 44.42
33+60.0000	+52,903.1524	+257,566.4390	264 40 11.97	20.0000	264 51 39.52
33+80.0000	+52,901.3609	+257,546.5195	265 03 07.07	20.0000	265 14 34.62
34+00.0000	+52,899.7023	+257,526.5824	265 26 02.17	20.0000	265 37 29.72
34+20.0000	+52,898.1766	+257,506.6467	265 48 57.27	20.0000	266 00 24.82
34+40.0000	+52,896.7839	+257,486.6953	266 11 52.37	20.0000	266 23 19.92
34+60.0000	+52,895.5242	+257,466.7351	266 34 47.47	20.0000	266 46 15.02
34+80.0000	+52,894.3976	+257,446.7668	266 57 42.56	20.0000	267 09 10.11
35+00.0000	+52,893.4042	+257,426.7916	267 20 37.66	9.2935	267 25 57.15
35+09.2935	+52,892.9879	+257,417.5074*	267 31 16.64		

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NAIROBI BYPASS

EC 01-0 / BC 02-0 L= 1,025.9217

R1= 0.0000  
A = 0.0000  
R2= 0.0000

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S T A.	X	Y	T	D	A
35+09.2935	+52,892.9879	+257,417.5074	267 31 16.64	10.7065	267 31 16.64
35+20.0000	+52,892.5248	+257,406.8109	267 31 16.64	20.0000	267 31 16.64
35+40.0000	+52,891.6599	+257,386.8296	267 31 16.64	20.0000	267 31 16.64
35+60.0000	+52,890.7949	+257,366.8483	267 31 16.64	20.0000	267 31 16.64
35+80.0000	+52,889.9299	+257,346.8671	267 31 16.64	20.0000	267 31 16.64
36+00.0000	+52,889.0650	+257,326.8858	267 31 16.64	20.0000	267 31 16.64
36+20.0000	+52,888.2000	+257,306.9045	267 31 16.64	20.0000	267 31 16.64
36+40.0000	+52,887.3350	+257,286.9232	267 31 16.64	20.0000	267 31 16.64
36+60.0000	+52,886.4701	+257,266.9419	267 31 16.64	20.0000	267 31 16.64
36+80.0000	+52,885.6051	+257,246.9606	267 31 16.64	20.0000	267 31 16.64
37+00.0000	+52,884.7402	+257,226.9793	267 31 16.64	20.0000	267 31 16.64
37+20.0000	+52,883.8752	+257,206.9981	267 31 16.64	20.0000	267 31 16.64
37+40.0000	+52,883.0102	+257,187.0168	267 31 16.64	20.0000	267 31 16.64
37+60.0000	+52,882.1453	+257,167.0355	267 31 16.64	20.0000	267 31 16.64
37+80.0000	+52,881.2803	+257,147.0542	267 31 16.64	20.0000	267 31 16.64
38+00.0000	+52,880.4153	+257,127.0729	267 31 16.64	20.0000	267 31 16.64
38+20.0000	+52,879.5504	+257,107.0916	267 31 16.64	20.0000	267 31 16.64
38+40.0000	+52,878.6854	+257,087.1103	267 31 16.64	20.0000	267 31 16.64
38+60.0000	+52,877.8204	+257,067.1290	267 31 16.64	20.0000	267 31 16.64
38+80.0000	+52,876.9555	+257,047.1478	267 31 16.64	20.0000	267 31 16.64
39+00.0000	+52,876.0905	+257,027.1665	267 31 16.64	20.0000	267 31 16.64
39+20.0000	+52,875.2255	+257,007.1852	267 31 16.64	20.0000	267 31 16.64
39+40.0000	+52,874.3606	+256,987.2039	267 31 16.64	20.0000	267 31 16.64
39+60.0000	+52,873.4956	+256,967.2226	267 31 16.64	20.0000	267 31 16.64

EC 01-0 / BC 02-0

39+80.0000	+52,872.6307	+256,947.2413	267 31 16.64	20.0000	267 31 16.64
40+00.0000	+52,871.7657	+256,927.2600	267 31 16.64	20.0000	267 31 16.64
40+20.0000	+52,870.9007	+256,907.2787	267 31 16.64	20.0000	267 31 16.64
40+40.0000	+52,870.0358	+256,887.2975	267 31 16.64	20.0000	267 31 16.64
40+60.0000	+52,869.1708	+256,867.3162	267 31 16.64	20.0000	267 31 16.64
40+80.0000	+52,868.3058	+256,847.3349	267 31 16.64	20.0000	267 31 16.64
41+00.0000	+52,867.4409	+256,827.3536	267 31 16.64	20.0000	267 31 16.64
41+20.0000	+52,866.5759	+256,807.3723	267 31 16.64	20.0000	267 31 16.64
41+40.0000	+52,865.7109	+256,787.3910	267 31 16.64	20.0000	267 31 16.64
41+60.0000	+52,864.8460	+256,767.4097	267 31 16.64	20.0000	267 31 16.64
41+80.0000	+52,863.9810	+256,747.4284	267 31 16.64	20.0000	267 31 16.64
42+00.0000	+52,863.1161	+256,727.4472	267 31 16.64	20.0000	267 31 16.64
42+20.0000	+52,862.2511	+256,707.4659	267 31 16.64	20.0000	267 31 16.64
42+40.0000	+52,861.3861	+256,687.4846	267 31 16.64	20.0000	267 31 16.64
42+60.0000	+52,860.5212	+256,667.5033	267 31 16.64	20.0000	267 31 16.64
42+80.0000	+52,859.6562	+256,647.5220	267 31 16.64	20.0000	267 31 16.64
43+00.0000	+52,858.7912	+256,627.5407	267 31 16.64	20.0000	267 31 16.64
43+20.0000	+52,857.9263	+256,607.5594	267 31 16.64	20.0000	267 31 16.64
43+40.0000	+52,857.0613	+256,587.5781	267 31 16.64	20.0000	267 31 16.64
43+60.0000	+52,856.1963	+256,567.5969	267 31 16.64	20.0000	267 31 16.64
43+80.0000	+52,855.3314	+256,547.6156	267 31 16.64	20.0000	267 31 16.64
44+00.0000	+52,854.4664	+256,527.6343	267 31 16.64	20.0000	267 31 16.64
44+20.0000	+52,853.6015	+256,507.6530	267 31 16.64	20.0000	267 31 16.64
44+40.0000	+52,852.7365	+256,487.6717	267 31 16.64	20.0000	267 31 16.64
44+60.0000	+52,851.8715	+256,467.6904	267 31 16.64	20.0000	267 31 16.64
44+80.0000	+52,851.0066	+256,447.7091	267 31 16.64	20.0000	267 31 16.64
45+00.0000	+52,850.1416	+256,427.7279	267 31 16.64	20.0000	267 31 16.64

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NAIROBI BYPASS

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S-01922-I (FORM 9)

PAGE 1/

EC 01-0 / 8C 02-0

45+20.0000 +52,849.2766

+256,407.7466 267 31 16.64

15.2152 267 31 16.64

45+35.2152 +52,848.6186

+256,392.5456 267 31 16.64



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NAIROBI BYPASS

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PAGE 18

BC 02-0 / EC 02-0 L= 375.1672

R1= + 4,000.0000

A = 0.0000

R2= + 4,000.0000

S T A.	X	Y	T	D	A
45+35.2152	+52,848.6186	+256,392.5456	267 31 16.64	4.7868	267 33 20.00
45+40.0000	+52,848.4145	+256,337.7652	267 35 23.37	20.0000	267 43 59.03
45+60.0000	+52,247.6234	+256,367.7808	267 52 34.69	20.0000	268 01 10.36
45+80.0000	+52,846.9323	+256,347.7928	268 09 46.02	20.0000	268 18 21.68
46+00.0000	+52,846.3410	+256,327.8016	268 26 57.34	20.0000	268 35 33.00
46+20.0000	+52,845.8498	+256,307.8076	268 44 08.67	20.0000	268 52 44.33
46+40.0000	+52,845.4585	+256,287.8115	269 01 19.99	20.0000	269 09 55.65
46+60.0000	+52,845.1672	+256,267.8136	269 18 31.31	20.0000	269 27 06.98
46+80.0000	+52,844.9759	+256,247.8145	269 35 42.64	20.0000	269 44 18.30
47+00.0000	+52,844.8846	+256,227.8148	269 52 53.96	20.0000	270 01 29.62
47+20.0000	+52,844.8933	+256,207.8148	270 10 05.29	20.0000	270 18 40.95
47+40.0000	+52,843.0020	+256,187.8151	270 27 16.61	20.0000	270 35 52.27
47+60.0000	+52,843.2106	+256,167.8162	270 44 27.93	20.0000	270 53 03.60
47+80.0000	+52,843.5193	+256,147.8186	271 01 39.26	20.0000	271 10 14.92
48+00.0000	+52,843.9280	+256,127.8228	271 18 50.58	20.0000	271 27 26.24
48+20.0000	+52,846.4366	+256,107.8293	271 36 01.91	20.0000	271 44 37.57
48+40.0000	+52,847.0452	+256,087.8386	271 53 13.23	20.0000	272 01 48.89
48+60.0000	+52,847.7538	+256,067.8512	272 10 24.55	20.0000	272 19 00.22
48+80.0000	+52,848.5622	+256,047.8675	272 27 35.88	20.0000	272 36 11.54
49+00.0000	+52,849.4706	+256,027.8882	272 44 47.20	10.3824	272 49 14.89
49+10.3824	+52,849.9815	+256,017.5184	272 53 42.58		

S-D1922-I (FORM 9)

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NAIROBI BYPASS

180.8741

L=

03-1

R1= 0.0000  
 A = 0.0000  
 R2= 0.0000

S T A.	X	Y	T	D	A
49+10.3824	+52,849.9815	+256,017.5184	272 53 42.58	9.6176	272 53 42.58
49+20.0000	+52,850.4673	+256,007.9130	272 53 42.58	20.0000	272 53 42.58
49+40.0000	+52,851.4775	+255,987.9386	272 53 42.58	20.0000	272 53 42.58
49+60.0000	+52,852.4877	+255,967.9641	272 53 42.58	20.0000	272 53 42.58
49+80.0000	+52,853.4978	+255,947.9696	272 53 42.58	20.0000	272 53 42.58
50+00.0000	+52,854.5080	+255,928.0152	272 53 42.58	20.0000	272 53 42.58
50+20.0000	+52,855.5182	+255,908.0407	272 53 42.58	20.0000	272 53 42.58
50+40.0000	+52,856.5283	+255,888.0662	272 53 42.58	20.0000	272 53 42.58
50+60.0000	+52,857.5385	+255,868.0917	272 53 42.58	20.0000	272 53 42.58
50+80.0000	+52,858.5487	+255,848.1173	272 53 42.58	11.2565	272 53 42.58
50+91.2565	+52,859.1172	+255,836.3752	272 53 42.58		

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NAIROBI BYPASS

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KA 03-1 / XE 03-1 L= 200.0000

R1= 0.0000  
A = 400.0000  
R2= + 800.0000

S T A.	X	Y	T	D	A
50+91.2565	+52,259.1172	+255,836.8752	272 53 42.58	8.7435	272 53 59.01
51+00.0000	+52,859.5596	+255,828.1428	272 54 31.86	20.0000	272 57 50.52
51+20.0000	+52,860.5937	+255,808.1696	273 02 35.13	20.0000	273 10 11.62
51+40.0000	+52,861.6997	+255,738.2002	273 19 14.06	20.0000	273 31 08.38
51+60.0000	+52,262.9273	+255,768.2380	273 44 28.65	19.9999	274 00 40.80
51+80.0000	+52,264.3263	+255,748.2870	274 18 18.90	19.9999	274 38 48.89
52+00.0000	+52,665.9466	+255,728.3529	275 00 44.82	19.9998	275 25 32.63
52+20.0000	+52,867.2377	+255,708.4427	275 51 46.39	19.9997	276 20 52.04
52+40.0000	+52,370.0490	+255,688.5656	276 51 23.63	19.9997	277 24 47.11
52+60.0000	+52,872.6293	+255,668.7331	277 59 36.53	19.9996	278 37 17.84
52+80.0000	+52,875.6275	+255,648.9595	279 16 25.10	11.2564	279 39 41.78
52+91.2565	+52,877.5166	+255,637.9628	280 03 25.68		

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NAIROBI BYPASS

326.5201

R1= + 300.0000  
A = 0.0000  
R2= + 800.0000

S T A.	X	Y	T	D	A
52+91.2565	+52,877.5166	+255,637.8628	280 03 25.68	8.7435	280 22 12.86
53+00.0000	+52,879.0905	+255,629.2621	280 41 00.04	19.9995	281 23 58.35
53+20.0000	+52,883.0434	+255,609.6571	282 06 56.66	19.9995	282 49 54.97
53+40.0000	+52,887.4851	+255,590.1571	283 32 53.28	19.9995	284 15 51.59
53+60.0000	+52,892.4129	+255,570.7743	284 58 49.90	19.9995	285 41 48.21
53+80.0000	+52,897.8237	+255,551.5206	286 24 46.52	19.9995	287 07 44.83
54+00.0000	+52,903.7140	+255,532.4082	287 50 43.14	19.9995	288 33 41.45
54+20.0000	+52,910.0803	+255,513.4491	289 16 39.76	19.9995	289 59 38.07
54+40.0000	+52,916.9185	+255,494.6550	290 42 36.38	19.9995	291 25 34.69
54+60.0000	+52,924.2244	+255,476.0377	292 08 33.00	19.9995	292 51 31.31
54+80.0000	+52,931.9934	+255,457.6089	293 34 29.62	19.9995	294 17 27.93
55+00.0000	+52,940.2207	+255,439.3800	295 00 26.24	19.9995	295 43 24.55
55+20.0000	+52,948.9010	+255,421.3623	296 26 22.86	19.9995	297 09 21.17
55+40.0000	+52,958.0290	+255,403.5676	297 52 19.48	19.9995	298 35 17.79
55+60.0000	+52,967.5990	+255,386.0064	299 18 16.10	19.9995	300 01 14.41
55+80.0000	+52,977.6050	+255,368.6900	300 44 12.72	19.9995	301 27 11.03
56+00.0000	+52,988.0607	+255,351.6291	302 10 09.34	17.7762	302 48 21.01
56+17.7765	+52,997.6718	+255,336.6880	303 26 32.68		

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NAIROBI BYPASS

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(FORM 9)

PAGE

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KE 05-2 / KA 03-2 L= 200.0000

R1= + 800.0000  
A = 400.0000  
R2= 0.0000

S T A.	X	Y	T	D	A
56+17.7765	+52,997.6718	+255,336.6880	303 26 32.68	2.2235	303 31 18.26
56+20.0000	+52,998.8997	+255,334.8344	303 36 02.78	19.9995	304 17 06.48
56+40.0000	+53,010.1657	+255,318.3098	304 56 44.24	19.9996	305 33 30.11
56+60.0000	+53,021.7961	+255,302.0397	306 08 50.04	19.9997	306 41 18.08
56+80.0000	+53,035.7452	+255,286.0020	307 12 20.18	19.9998	307 40 30.38
57+00.0000	+53,045.9687	+255,270.1723	308 07 14.65	19.9998	308 31 07.03
57+20.0000	+53,058.4240	+255,254.5243	308 53 33.46	19.9999	309 13 08.01
57+40.0000	+53,071.0696	+255,239.0297	309 31 16.61	19.9999	309 46 33.33
57+60.0000	+53,083.8653	+255,223.6587	310 00 24.10	20.0000	310 11 22.99
57+80.0000	+53,096.7717	+255,208.3805	310 20 55.93	20.0000	310 27 36.98
58+00.0000	+53,109.7501	+255,193.1634	310 32 52.09	17.7765	310 35 07.89
58+17.7765	+53,121.3152	+255,179.6632	310 36 15.78		

KA 03-2 / BC 04-0 L= 184.0877

R1= 0.0000  
 A = 0.0000  
 R2= 0.0000

S T A.	X	Y	T	D	A
58+17.7765	+53,121.3152	+255,179.6632	310 36 15.78	2.2235	310 36 15.78
58+20.0000	+53,122.7623	+255,177.9751	310 36 15.78	20.0000	310 36 15.78
58+40.0000	+53,135.7790	+255,162.7907	310 36 15.78	20.0000	310 36 15.78
58+60.0000	+53,148.7956	+255,147.6063	310 36 15.78	20.0000	310 36 15.78
58+80.0000	+53,161.8122	+255,132.4218	310 36 15.78	20.0000	310 36 15.78
59+00.0000	+53,174.8289	+255,117.2374	310 36 15.78	20.0000	310 36 15.78
59+20.0000	+53,187.8455	+255,102.0530	310 36 15.78	20.0000	310 36 15.78
59+40.0000	+53,200.8622	+255,086.8686	310 36 15.78	20.0000	310 36 15.78
59+60.0000	+53,213.8788	+255,071.6841	310 36 15.78	20.0000	310 36 15.78
59+80.0000	+53,226.8955	+255,056.4997	310 36 15.78	20.0000	310 36 15.78
60+00.0000	+53,239.9121	+255,041.3153	310 36 15.78	1.8642	310 36 15.78
60+01.2642	+53,241.1254	+255,039.8999	310 36 15.78		

BC 04-0 / EBC 05-0 L= 377.3117

R1= - 4,000.0000  
A = 0.0000  
R2= - 4,000.0000

S T A.	X	Y	T	D	A
60+01.8642	+53,241.1254	+255,039.8999	310 36 15.78	18.1357	310 28 28.19
60+20.0000	+53,252.8975	+255,026.1041	310 20 40.59	20.0000	310 12 04.93
60+40.0000	+53,265.8070	+255,010.8285	310 03 29.27	20.0000	309 54 53.61
60+60.0000	+53,278.6400	+254,995.4886	309 46 17.94	20.0000	309 37 42.28
60+80.0000	+53,291.3961	+254,980.0847	309 29 06.62	20.0000	309 20 30.96
61+00.0000	+53,304.0750	+254,964.6171	309 11 55.30	20.0000	309 03 19.63
61+20.0000	+53,316.6765	+254,949.0364	308 54 43.97	20.0000	308 46 08.31
61+40.0000	+53,329.2001	+254,933.4929	308 37 32.65	20.0000	308 28 56.99
61+60.0000	+53,341.6456	+254,917.8369	308 20 21.32	20.0000	308 11 45.66
61+80.0000	+53,354.0126	+254,902.1190	308 03 10.00	20.0000	307 54 34.34
62+00.0000	+53,366.3010	+254,886.3393	307 45 58.68	20.0000	307 37 23.01
62+20.0000	+53,378.5102	+254,870.4995	307 28 47.35	20.0000	307 20 11.69
62+40.0000	+53,390.6401	+254,854.5968	307 11 36.03	20.0000	307 03 00.37
62+60.0000	+53,402.6904	+254,838.6346	306 54 24.70	20.0000	306 45 49.04
62+80.0000	+53,414.6607	+254,822.6124	306 37 13.38	20.0000	306 28 37.72
63+00.0000	+53,426.5507	+254,806.5305	306 20 02.06	20.0000	306 11 26.39
63+20.0000	+53,438.3602	+254,790.3894	306 02 50.73	20.0000	305 54 15.07
63+40.0000	+53,450.0888	+254,774.1895	305 45 39.41	20.0000	305 37 03.75
63+60.0000	+53,461.7363	+254,757.9311	305 28 28.08	19.1760	305 20 13.67
63+79.1760	+53,472.8274	+254,742.2880	305 11 59.25		

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NAIROBI BYPASS

EBC 05-0 / EC 05-0 L= 649.2621

R1= + 2,000.0000  
 A = 0.0000  
 R2= + 2,000.0000

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S T A.	X	Y	T	D	A
63+79.0000	+53,472.8274	+254,742.2880	305 11 59.25	0.8240	305 12 41.74
63+80.0000	+53,473.3025	+254,741.6148	305 13 24.24	19.9999	305 30 35.56
64+00.0000	+53,484.9193	+254,725.3345	305 47 46.88	19.9999	306 04 58.21
64+20.0000	+53,496.6984	+254,709.1713	306 22 05.53	19.9999	306 39 20.86
64+40.0000	+53,508.6384	+254,693.1266	306 56 32.18	19.9999	307 13 43.50
64+60.0000	+53,520.7384	+254,677.2021	307 30 54.83	19.9999	307 48 06.15
64+80.0000	+53,532.9969	+254,661.3995	308 05 17.48	19.9999	308 22 28.80
65+00.0000	+53,545.4129	+254,645.7202	308 39 40.12	19.9999	308 56 51.45
65+20.0000	+53,557.9850	+254,630.1658	309 14 02.77	19.9999	309 31 14.10
65+40.0000	+53,570.7121	+254,614.7380	309 48 25.42	19.9999	310 05 36.74
65+60.0000	+53,583.5928	+254,599.4382	310 22 48.07	19.9999	310 39 59.39
65+80.0000	+53,596.6258	+254,584.2679	310 57 10.72	19.9999	311 14 22.04
66+00.0000	+53,609.8099	+254,569.2287	311 31 33.36	19.9999	311 48 44.69
66+20.0000	+53,623.1437	+254,554.3222	312 05 56.01	19.9999	312 23 07.34
66+40.0000	+53,636.6260	+254,539.5497	312 40 18.66	19.9999	312 57 29.98
66+60.0000	+53,650.2552	+254,524.9128	313 14 41.31	19.9999	313 31 52.63
66+80.0000	+53,664.0302	+254,510.4129	313 49 03.96	19.9999	314 06 15.28
67+00.0000	+53,677.9495	+254,496.0514	314 23 26.60	19.9999	314 40 37.93
67+20.0000	+53,692.0116	+254,481.8299	314 57 49.25	19.9999	315 15 00.58
67+40.0000	+53,706.2153	+254,467.7497	315 32 11.90	19.9999	315 49 23.22
67+60.0000	+53,720.5591	+254,453.8122	316 06 34.55	19.9999	316 23 45.87
67+80.0000	+53,735.0415	+254,440.0189	316 40 57.20	19.9999	316 58 08.52
68+00.0000	+53,749.6612	+254,426.3711	317 15 19.84	19.9999	317 32 31.17
68+20.0000	+53,764.4166	+254,412.8702	317 49 42.49	19.9999	318 06 53.82

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NAIROBI BYPASS S-01922-I (FORM 9)

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NAIROBI BYPASS

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EBC 05-0 / EC 05-0

68+40-0000	+53,779.3062	+254,399.5175	318 24 05.14	19.9999	318 41 16.46
68+60-0000	+53,794.3286	+254,386.3143	318 58 27.79	19.9999	319 15 39.11
68+80-0000	+53,809.4824	+254,373.2620	319 32 50.44	19.9999	319 50 01.76
69+00-0000	+53,824.7658	+254,360.3620	320 07 13.09	19.9999	320 24 24.41
69+20-0000	+53,840.1775	+254,347.6154	320 41 35.73	19.9999	320 58 47.06
69+40-0000	+53,855.7159	+254,335.0235	321 15 58.38	19.9999	321 33 09.71
69+60-0000	+53,871.3795	+254,322.5877	321 50 21.03	19.9999	322 07 32.35
69+80-0000	+53,887.1666	+254,310.3091	322 24 43.68	19.9999	322 41 55.00
70+00-0000	+53,903.0757	+254,298.1890	322 59 06.33	19.9999	323 16 17.65
70+20-0000	+53,919.1052	+254,286.2286	323 33 28.97	8.4381	323 40 44.09
70+28.4381	+53,925.9039	+254,281.2306	323 47 59.21		

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NAIROBI BYPASS  
 EC 05-0 / KA 05-1 L= 421.6693

R1= 0.0000  
 A = 0.0000  
 R2= 0.0000

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S T A.	X	Y	T	D	A
70+28.4381	+53,925.9039	+254,281.2306	323 47 59.21	11.5619	323 47 59.21
70+40.0000	+53,935.2338	+254,274.4020	323 47 59.21	20.0000	323 47 59.21
70+60.0000	+53,951.5730	+254,262.5899	323 47 59.21	20.0000	323 47 59.21
70+80.0000	+53,967.5122	+254,250.7777	323 47 59.21	20.0000	323 47 59.21
71+00.0000	+53,983.6513	+254,238.9655	323 47 59.21	20.0000	323 47 59.21
71+20.0000	+53,999.7905	+254,227.1533	323 47 59.21	20.0000	323 47 59.21
71+40.0000	+54,015.9297	+254,215.3412	323 47 59.21	20.0000	323 47 59.21
71+60.0000	+54,032.0688	+254,203.5290	323 47 59.21	20.0000	323 47 59.21
71+80.0000	+54,048.2080	+254,191.7168	323 47 59.21	20.0000	323 47 59.21
72+00.0000	+54,064.3471	+254,179.9046	323 47 59.21	20.0000	323 47 59.21
72+20.0000	+54,080.4863	+254,168.0925	323 47 59.21	20.0000	323 47 59.21
72+40.0000	+54,096.6255	+254,156.2803	323 47 59.21	20.0000	323 47 59.21
72+60.0000	+54,112.7646	+254,144.4681	323 47 59.21	20.0000	323 47 59.21
72+80.0000	+54,128.9038	+254,132.6559	323 47 59.21	20.0000	323 47 59.21
73+00.0000	+54,145.0429	+254,120.8438	323 47 59.21	20.0000	323 47 59.21
73+20.0000	+54,161.1821	+254,109.0316	323 47 59.21	20.0000	323 47 59.21
73+40.0000	+54,177.3213	+254,097.2194	323 47 59.21	20.0000	323 47 59.21
73+60.0000	+54,193.4604	+254,085.4072	323 47 59.21	20.0000	323 47 59.21
73+80.0000	+54,209.5996	+254,073.5951	323 47 59.21	20.0000	323 47 59.21
74+00.0000	+54,225.7387	+254,061.7829	323 47 59.21	20.0000	323 47 59.21
74+20.0000	+54,241.8779	+254,049.9707	323 47 59.21	20.0000	323 47 59.21
74+40.0000	+54,258.0171	+254,038.1585	323 47 59.21	10.1074	323 47 59.21
74+50.1074	+54,266.1733	+254,032.1890	323 47 59.21		

CENTER

NAIROBI BYPASS

KA 06-1 / XE 06-1 L= 150.0000

R1= 0.0000  
 A= 300.0000  
 R2= - 600.0000

S T A-	X	Y	T	D	A
74+50.0000	+54,266.1733	+254,032.1890	323 47 59.21	9.8926	323 47 21.83
74+60.0000	+54,274.1552	+254,026.3449	323 46 07.07	20.0000	323 39 47.56
74+80.0000	+54,290.2661	+254,014.4943	323 30 55.26	19.9999	323 16 57.38
75+00.0000	+54,306.2979	+254,002.5370	323 00 26.72	19.9999	322 38 50.48
75+20.0000	+54,322.1962	+253,990.4027	322 14 41.44	19.9997	321 45 26.84
75+40.0000	+54,337.9039	+253,978.0230	321 13 35.44	19.9996	320 36 46.46
75+60.0000	+54,353.3611	+253,965.3322	319 57 20.70	19.9994	319 12 49.36
75+80.0000	+54,368.5037	+253,952.2678	318 25 45.23	19.9992	317 33 35.52
76+00.0000	+54,383.2628	+253,938.7719	316 38 53.02	0.1074	316 38 34.57
76+00.1074	+54,383.3408	+253,938.6982	316 38 16.11		

KE 06-1 / KE 06-2 L= 553.3979

R1= - 600.0000  
 A = 0.0000  
 R2= - 600.0000

S T A.	X	Y	T	D	A
76+00.0000	+54,383.3408	+253,938.6982	316 38 16.11	19.9991	315 41 16.83
76+20.0000	+54,397.5743	+253,924.3025	314 44 17.54	19.9991	313 46 59.80
76+40.0000	+54,411.4123	+253,910.3640	312 49 42.05	19.9991	311 52 24.30
76+60.0000	+54,424.7614	+253,895.4722	310 55 06.56	19.9991	309 57 48.81
76+80.0000	+54,437.6068	+253,880.1439	309 00 31.06	19.9991	308 03 13.31
77+00.0000	+54,449.9342	+253,864.3959	307 05 55.57	19.9991	306 08 37.82
77+20.0000	+54,461.7300	+253,848.2459	305 11 20.07	19.9991	304 14 02.33
77+40.0000	+54,472.9809	+253,831.7117	303 16 44.58	19.9991	302 19 26.83
77+60.0000	+54,483.6746	+253,814.8118	301 22 09.09	19.9991	300 24 51.34
77+80.0000	+54,493.7991	+253,797.5648	299 27 33.59	19.9991	298 30 15.85
78+00.0000	+54,503.3432	+253,779.9900	297 32 58.10	19.9991	296 35 40.35
78+20.0000	+54,512.2963	+253,762.1069	295 38 22.61	19.9991	294 41 04.86
78+40.0000	+54,520.6484	+253,743.9354	293 43 47.11	19.9991	292 46 29.37
78+60.0000	+54,528.3902	+253,725.4955	291 49 11.62	19.9991	290 51 53.87
78+80.0000	+54,535.5132	+253,706.8080	289 54 36.13	19.9991	288 57 18.38
79+00.0000	+54,542.0094	+253,687.8934	288 00 00.63	19.9991	287 02 42.89
79+20.0000	+54,547.3717	+253,668.7728	286 05 25.14	19.9991	285 08 07.39
79+40.0000	+54,553.0935	+253,649.4674	284 10 49.65	19.9991	283 13 31.90
79+60.0000	+54,557.6690	+253,629.9988	282 16 14.15	19.9991	281 18 56.41
79+80.0000	+54,561.5931	+253,610.3885	280 21 38.66	19.9991	279 24 20.91
80+00.0000	+54,564.2614	+253,590.6583	278 27 03.16	19.9991	277 29 45.42
80+20.0000	+54,567.4704	+253,570.8301	276 32 27.67	19.9991	275 35 09.92
80+40.0000	+54,569.4172	+253,550.9260	274 37 52.18	19.9991	273 40 34.43
80+60.0000	+54,570.6995	+253,530.9681	272 43 16.68	19.9991	271 45 58.94

KE 06-1 / KE 06-2

80+80.0000	+54,571.3159	+253,510.9785	270 43 41.19	19.9991	269 51 23.44
81+00.0000	+54,571.2659	+253,490.9795	268 54 05.70	19.9991	267 56 47.95
81+20.0000	+54,570.5493	+253,470.9935	266 59 30.20	19.9991	266 02 12.46
81+40.0000	+54,569.1670	+253,451.0420	265 04 54.71	13.5050	264 26 13.33
81+53.5053	+54,567.8579	+253,437.6007	263 47 31.94		

KE 06-2 / KA 06-2 L= 150.0000

R1= 600.0000  
 A = 300.0000  
 R2= 0.0000

S T A.	X	Y	T	D	A
81+53.5053	+54,567.8579	+253,437.6007	263 47 31.94	6.4947	263 29 11.69
81+60.0000	+54,567.1211	+253,431.1479	263 11 07.55	19.9993	262 18 51.44
81+80.0000	+54,564.4465	+253,411.3283	261 29 08.12	19.9995	260 44 30.38
82+00.0000	+54,561.2288	+253,391.5893	260 02 25.42	19.9996	259 25 26.05
82+20.0000	+54,557.5521	+253,371.9294	258 50 59.46	19.9998	258 21 38.45
82+40.0000	+54,553.5231	+253,352.3409	257 54 50.22	19.9999	257 33 07.58
82+60.0000	+54,549.2121	+253,332.8112	257 13 57.72	20.0000	256 59 53.45
82+80.0000	+54,544.7125	+253,313.3240	256 48 21.96	20.0000	256 41 56.04
83+00.0000	+54,540.1111	+253,293.8605	256 38 02.92	3.5053	256 37 53.53
83+03.5053	+54,539.3007	+253,290.4502	256 37 48.84		

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CENTER

NAIROBI BYPASS

55.0389

L=

07-1

KA

06-2

R1= 0.0000  
A = 0.0000  
R2= 0.0000

S. T. A.	X	Y	T	D	A
83+03.5053	+54,539.3007	+253,290.4502	256 37 48.84	16.4947	256 37 48.84
83+20.0000	+54,535.4865	+253,274.4025	256 37 48.84	20.0000	256 37 48.84
83+40.0000	+54,530.8618	+253,254.9446	256 37 48.84	18.5441	256 37 48.84
83+58.5441	+54,526.5738	+253,236.9030	256 37 48.84		

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CENTER

NAIROBI BYPASS

L= 250.0000

L=

KA 07-1 / KE 07-1

R1= 0.0000  
A = 500.0000  
R2= + 1,000.0000

S T A.	X	Y	T	D	A
83+58.0000	+54,526.5738	+253,236.9030	256 37 48.84	1.4559	256 37 49.13
83+60.0000	+54,526.2371	+253,235.4866	256 37 49.71	20.0000	256 38 56.73
83+80.0000	+54,521.6188	+253,216.0271	256 40 58.75	20.0000	256 44 50.78
84+00.0000	+54,517.0340	+253,196.5597	256 49 37.81	20.0000	256 56 14.85
84+20.0000	+54,512.5137	+253,177.0775	257 03 46.89	20.0000	257 13 08.94
84+40.0000	+54,508.0892	+253,157.5728	257 23 26.00	20.0000	257 35 33.06
84+60.0000	+54,503.7920	+253,138.0400	257 48 35.13	19.9999	258 03 27.20
84+80.0000	+54,499.6534	+253,118.4729	258 19 14.28	19.9999	258 36 51.37
85+00.0000	+54,495.7052	+253,098.8666	258 55 23.46	19.9999	259 15 45.56
85+20.0000	+54,491.9791	+253,079.2169	259 37 02.66	19.9998	260 00 09.77
85+40.0000	+54,488.5071	+253,059.5207	260 24 11.89	19.9998	260 50 04.01
85+60.0000	+54,485.3213	+253,039.7763	261 16 51.14	19.9998	261 45 28.27
85+80.0000	+54,482.4542	+253,019.9831	262 15 00.41	19.9997	262 46 22.55
86+00.0000	+54,479.9382	+253,000.1423	263 18 39.70	8.5441	263 33 00.80
86+08.5441	+54,478.9784	+252,991.6523	263 47 31.94		

KE 07-1 / KE 07-2 L= 267.0936

R1= + 1,000.0000  
A = 0.0000  
R2= + 1,000.0000

S T A.	X	Y	T	D	A
86+08.5441	+54,478.9784	+252,991.6323	263 47 31.94	11.4558	264 07 13.41
86+20.0000	+54,477.8049	+252,980.2567	264 26 54.88	19.9997	265 01 17.53
86+40.0000	+54,476.0693	+252,960.3325	265 35 40.18	19.9997	266 10 02.83
86+60.0000	+54,474.7325	+252,940.3776	266 44 25.48	19.9997	267 18 48.12
86+80.0000	+54,473.7951	+252,920.3999	267 53 10.77	19.9997	268 27 33.42
87+00.0000	+54,473.2574	+252,900.4074	269 01 56.07	19.9997	269 36 18.72
87+20.0000	+54,473.1195	+252,880.4083	270 10 41.37	19.9997	270 45 04.01
87+40.0000	+54,473.3817	+252,860.4103	271 19 26.66	19.9997	271 53 49.31
87+60.0000	+54,474.0438	+252,840.4216	272 28 11.96	19.9997	273 02 34.61
87+80.0000	+54,475.1055	+252,820.4501	273 36 57.25	19.9997	274 11 19.90
88+00.0000	+54,476.5663	+252,800.5039	274 45 42.55	19.9997	275 20 05.20
88+20.0000	+54,478.4258	+252,780.5909	275 54 27.85	19.9997	276 28 50.49
88+40.0000	+54,480.6831	+252,760.7190	277 03 13.14	19.9997	277 37 35.79
88+60.0000	+54,483.3374	+252,740.8962	278 11 58.44	15.6375	278 38 51.19
88+75.6377	+54,485.6886	+252,725.4365	279 05 43.94		



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NAIROBI BYPASS

KE 07-2 / KA 08-1 L= 250.0000

R1= +1,000.0000  
A = 500.0000  
R2= 0.0000

S T A.	X	Y	T	D	A
88+75.6377	+54,485.6886	+252,725.4365	279 05 43.94	4.3623	279 13 11.22
88+80.0000	+54,486.3875	+252,721.1305	279 20 35.88	19.9997	279 53 27.54
89+00.0000	+54,489.8230	+252,701.4281	280 25 24.18	19.9998	280 55 30.83
89+20.0000	+54,493.6135	+252,691.7908	281 24 42.46	19.9998	281 52 04.09
89+40.0000	+54,497.7265	+252,662.2185	282 18 30.72	19.9998	282 43 07.33
89+60.0000	+54,502.1298	+252,642.7094	283 06 48.94	19.9999	283 28 40.55
89+80.0000	+54,506.7912	+252,623.2604	283 49 37.15	19.9999	284 08 43.74
90+00.0000	+54,511.6788	+252,603.8669	284 26 55.33	19.9999	284 43 16.91
90+20.0000	+54,516.7612	+252,584.5235	284 58 43.49	20.0000	285 12 20.06
90+40.0000	+54,522.0069	+252,565.2237	285 25 01.63	20.0000	285 35 53.18
90+60.0000	+54,527.3846	+252,545.9603	285 45 49.74	20.0000	285 53 56.28
90+80.0000	+54,532.8634	+252,526.7254	286 01 07.83	20.0000	286 06 29.36
91+00.0000	+54,538.4124	+252,507.5106	286 10 55.89	20.0000	286 13 32.41
91+20.0000	+54,544.0009	+252,488.3073	286 15 13.93	5.6377	286 15 22.67
91+25.6377	+54,545.5791	+252,482.8950	286 15 27.04		



KA 08-1 / KE 08-1 L= 150.0000

R1= 0.0000  
A= 300.0000  
R2= - 600.0000

S	T	A.	X	Y	T	D	A
91+25.6377			+54,545.5791	+252,482.8950	286 15 27.04	14.3623	286 14 08.25
91+40.0000			+54,549.5946	+252,469.1054	286 11 30.67	20.0000	286 03 28.72
91+60.0000			+54,555.1268	+252,449.8858	285 52 53.98	19.9999	285 37 13.67
91+80.0000			+54,560.5120	+252,430.6246	285 19 00.56	19.9998	284 55 41.88
92+00.0000			+54,565.6642	+252,411.2997	284 29 50.41	19.9997	283 58 53.36
92+20.0000			+54,570.4963	+252,391.8926	283 25 23.53	19.9996	282 46 48.11
92+40.0000			+54,574.9204	+252,372.3885	282 05 39.91	19.9994	281 19 26.13
92+60.0000			+54,578.8473	+252,352.7784	280 30 39.56	15.6373	279 48 58.46
92+75.6377			+54,581.5133	+252,337.3701	279 05 43.94		

86/

S-12331-I (FORM 9)

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NAIROBI BYPASS

KE 08-1 / KE 08-2 L= 507.9663

R1= - 600.0000  
 A = 0.0000  
 R2= - 600.0000

S	T	A	X	Y	T	D	A
92	75	.6377	+54,581.5133	+252,337.3701	279 05 43.94	4.3623	278 53 14.11
92	80	.0000	+54,582.1873	+252,333.6601	278 40 44.28	19.9991	277 43 26.54
93	00	.0000	+54,584.8752	+252,313.2425	276 46 08.79	19.9991	275 48 51.04
93	20	.0000	+54,586.9011	+252,293.3463	274 51 33.30	19.9991	273 54 15.55
93	40	.0000	+54,588.2629	+252,273.3937	272 56 57.80	19.9991	271 59 40.06
93	60	.0000	+54,588.9589	+252,253.4067	271 02 22.31	19.9991	270 05 04.56
93	80	.0000	+54,588.9884	+252,233.4077	269 07 46.82	19.9991	268 10 29.07
94	00	.0000	+54,588.3514	+252,213.4187	267 13 11.32	19.9991	266 15 53.58
94	20	.0000	+54,587.0486	+252,193.4621	265 18 35.83	19.9991	264 21 18.08
94	40	.0000	+54,585.0814	+252,173.5601	263 24 00.34	19.9991	262 26 42.59
94	60	.0000	+54,582.4521	+252,153.7346	261 29 24.84	19.9991	260 32 07.10
94	80	.0000	+54,579.1634	+252,134.0078	259 34 49.35	19.9991	258 37 31.60
95	00	.0000	+54,575.2191	+252,114.4015	257 40 13.86	19.9991	256 42 56.11
95	20	.0000	+54,570.6237	+252,094.9376	255 45 38.36	19.9991	254 48 20.62
95	40	.0000	+54,565.3821	+252,075.6376	253 51 02.87	19.9991	252 53 45.12
95	60	.0000	+54,559.5001	+252,056.5230	251 56 27.37	19.9991	250 59 09.63
95	80	.0000	+54,552.9845	+252,037.6151	250 01 51.88	19.9991	249 04 34.13
96	00	.0000	+54,545.8423	+252,018.9349	248 07 16.39	19.9991	247 09 58.64
96	20	.0000	+54,538.0815	+252,000.5030	246 12 40.89	19.9991	245 15 23.15
96	40	.0000	+54,529.7107	+251,982.3401	244 18 05.40	19.9991	243 20 47.65
96	60	.0000	+54,520.7392	+251,964.4662	242 23 29.91	19.9991	241 26 12.16
96	80	.0000	+54,511.1771	+251,946.9012	240 28 54.41	19.9991	239 31 36.67
97	00	.0000	+54,501.0349	+251,929.6647	238 34 18.92	19.9991	237 37 01.17
97	20	.0000	+54,490.3239	+251,912.7757	236 39 43.43	19.9991	235 42 25.68



CENTER

NAIROBI BYPASS

KA 09-1 / KE 09-1 L= 150.0000

R1= 0.0000  
A = 300.0000  
R2= + 600.0000

S T A. X Y T D A

99+33.6040	+54,348.1631	+251,754.1023	223 25 34.87	6.3960	223 25 50.50
99+60.0000	+54,343.4983	+251,749.7052	223 26 21.75	20.0000	223 31 21.13
99+60.0000	+54,328.9962	+251,735.9324	223 38 53.29	19.9999	223 51 31.03
99+80.0000	+54,314.5752	+251,722.0748	224 06 41.56	19.9999	224 26 57.66
100+00.0000	+54,300.2979	+251,708.0694	224 45 46.56	19.9998	225 17 41.03
100+20.0000	+54,286.2289	+251,693.8548	225 48 08.29	19.9996	226 23 41.13
100+60.0000	+54,272.4355	+251,679.3729	227 01 46.76	19.9994	227 44 57.96
100+60.0000	+54,258.9883	+251,664.5691	228 30 41.96	19.9992	229 21 31.53
100+80.0000	+54,245.9624	+251,649.3937	230 14 53.89	3.6040	230 25 03.45
100+83.6040	+54,243.6660	+251,646.6160	230 35 17.98		

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\*\*\*\*\* NAIROBI BYPASS CENTER \*\*\*\*\* S-12331-I (FORM 9)

KE 09-1 / KE 09-2 L= 332.2831

R1= + 600.0000  
A = 0.0000  
R2= + 600.0000

S T A. X Y T D A

100+83.6040	+54,243.6660	+251,646.6160	230 35 17.98	16.3955	231 22 16.24
101+00.0000	+54,233.4308	+251,633.8078	232 09 14.50	19.9991	233 06 32.25
101+20.0000	+54,221.4254	+251,617.8129	234 03 49.99	19.9991	235 01 07.74
101+40.0000	+54,209.9598	+251,601.4269	235 58 25.49	19.9991	236 55 43.23
101+60.0000	+54,199.0466	+251,584.6678	237 53 00.98	19.9991	238 50 18.73
101+80.0000	+54,188.6981	+251,567.5544	239 47 36.47	19.9991	240 44 54.22
102+00.0000	+54,178.9256	+251,550.1055	241 42 11.97	19.9991	242 39 29.71
102+20.0000	+54,169.7401	+251,532.3407	243 36 47.46	19.9991	244 34 05.21
102+40.0000	+54,161.1518	+251,514.2796	245 31 22.95	19.9991	246 28 40.70
102+60.0000	+54,153.1701	+251,495.9423	247 25 58.45	19.9991	248 23 16.19
102+80.0000	+54,145.8040	+251,477.3492	249 20 33.94	19.9991	250 17 51.69
103+00.0000	+54,139.0616	+251,458.5209	251 15 09.43	19.9991	252 12 27.18
103+20.0000	+54,132.9505	+251,439.4784	253 09 44.93	19.9991	254 07 02.67
103+40.0000	+54,127.6774	+251,420.2428	255 04 20.42	19.9991	256 01 38.17
103+60.0000	+54,122.6485	+251,400.8355	256 58 55.91	19.9991	257 56 13.66
103+80.0000	+54,118.4690	+251,381.2780	258 53 31.41	19.9991	259 50 49.15
104+00.0000	+54,114.9436	+251,361.5921	260 48 06.90	15.8867	261 33 37.70
104+15.3971	+54,112.6120	+251,345.8775	262 19 08.49		

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KE 09-2 / KA 10-1 L= 150.0000

R1= + 600.0000  
A = 300.0000  
R2= 0.0000

S	T	A.	X	Y	T	D	A
104	+15.	8871	+54,112.6120	+251,345.8775	202 19 08.49	4.1129	262 30 48.98
104	+20.	0000	+54,112.0761	+251,341.7997	262 42 23.01	19.9992	263 35 33.71
104	+40.	0000	+54,109.8443	+251,321.9254	264 26 11.62	19.9994	265 11 43.95
104	+60.	0000	+54,108.1692	+251,301.9962	265 54 43.49	19.9996	266 32 37.46
104	+80.	0000	+54,106.9635	+251,282.0330	267 07 58.63	19.9998	267 38 14.23
105	+00.	0000	+54,106.1390	+251,262.0502	268 05 57.04	19.9999	268 28 34.28
105	+20.	0000	+54,105.6072	+251,242.0574	268 48 38.72	19.9999	269 03 37.59
105	+40.	0000	+54,105.2792	+251,222.0601	269 16 03.66	20.0000	269 23 24.16
105	+60.	0000	+54,105.0663	+251,202.0613	269 28 11.88	5.8871	269 28 38.35
105	+65.	8871	+54,105.0126	+251,196.1744	269 28 51.59		



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\*\*\*\*\* MAIROBI BYPASS CENTER \*\*\*\*\* S-12331-I (FORM 9)

KA 10-1 / KE 10-1 L= 150.0000

R1= 0.0000  
A = 300.0000  
R2= - 600.0000

S	T	A.	X	Y	T	D	A
105	+65.	8871	+54,105.0126	+251,196.1744	269 28 51.59	14.1129	269 27 35.51
105	+80.	0000	+54,104.8795	+251,182.0822	269 25 03.36	20.0000	269 17 07.12
106	+00.	0000	+54,104.6301	+251,162.0637	269 06 38.10	19.9999	268 51 03.50
106	+20.	0000	+54,104.2290	+251,142.0678	268 32 56.12	19.9998	268 09 43.15
106	+40.	0000	+54,103.5876	+251,122.0783	267 43 57.40	19.9997	267 13 06.07
106	+60.	0000	+54,102.6170	+251,102.1022	266 39 41.95	19.9996	266 01 12.25
106	+80.	0000	+54,101.2289	+251,082.1508	265 20 09.77	19.9994	264 34 01.70
107	+00.	0000	+54,099.3353	+251,062.2413	263 45 20.85	15.8867	263 03 02.88
107	+15.	8871	+54,097.4132	+251,046.4713	262 19 08.49		

CENTER

NAIROBI BYPASS

KE 10-1 / KE 10-2 L= 247.2342

R1= - 600.0000  
A = 0.0000  
R2= - 600.0000

S T A X Y T D A

107+15.8871	+54,097.4132	+251,046.4713	262 19 08.49	4.1129	262.07 21.54
107+20.0000	+54,096.8495	+251,042.3973	261 55 34.59	19.9991	260 58 16.84
107+40.0000	+54,093.7111	+251,022.6460	260 00 59.09	19.9991	259 03 41.35
107+60.0000	+54,089.9162	+251,003.0103	258 06 23.60	19.9991	257 09 05.85
107+80.0000	+54,085.4689	+250,983.5119	256 11 48.11	19.9991	255 14 30.36
108+00.0000	+54,080.3744	+250,964.1726	254 17 12.61	19.9991	253 19 54.87
108+20.0000	+54,074.6381	+250,945.0139	252 22 37.12	19.9991	251 25 19.37
108+40.0000	+54,068.2665	+250,926.0569	250 28 01.62	19.9991	249 30 43.88
108+60.0000	+54,061.2667	+250,907.3229	248 33 26.13	19.9991	247 36 08.38
108+80.0000	+54,053.6463	+250,888.8325	246 38 50.64	19.9991	245 41 32.89
109+00.0000	+54,045.4140	+250,870.6063	244 44 15.14	19.9991	243 46 57.40
109+20.0000	+54,036.5789	+250,852.6647	242 49 39.65	19.9991	241 52 21.90
109+40.0000	+54,027.1507	+250,835.0274	240 55 04.16	19.9991	239 57 46.41
109+60.0000	+54,017.1399	+250,817.7142	239 00 28.66	3.1213	238 51 32.15
109+63.1213	+54,015.5258	+250,815.0427	238 42 35.64		

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\*\*\*\*\* NAIROBI BYPASS CENTER \*\*\*\*\* S-12331-1 (FORM 9)

KE 10-2 / KA 11-1 L= 150.0000

R1= 600.0000  
A= 300.0000  
R2= 0.0000

S	T	A	X	Y	T	D	A
109	63	.1213	+54,015.5258	+250,815.0427	238.42	35.64	16.8782 237.56 03.22
109	80	.0000	+54,006.5653	+250,800.7395	237.11	19.63	19.9994 236.23 01.90
110	00	.0000	+53,995.4931	+250,784.0847	235.37	16.16	19.9996 234.56 36.40
110	20	.0000	+53,984.0056	+250,767.7133	234.18	29.43	19.9997 233.45 28.04
110	40	.0000	+53,972.1818	+250,751.5831	233.14	59.43	19.9998 232.49 36.40
110	60	.0000	+53,960.0973	+250,735.6470	232.26	46.16	19.9999 232.09 01.50
110	80	.0000	+53,947.8256	+250,719.8545	231.53	49.63	20.0000 231.43 43.33
111	00	.0000	+53,935.4379	+250,704.1528	231.36	09.83	13.1213 231.33 58.30
111	13	.1213	+53,927.2815	+250,693.8745	231.32	52.53	

CENTER

NAIROBI BYPASS

KA 11-1 / KE 11-1 L= 150.0000

R1= 0.0000  
 A = 300.0000  
 R2= + 600.0000

S T A. X Y T D A

111+13.1213	+53,927.2815	+250,693.8745	231 32 52.53	6.8787	231 33 10.61
111+20.0000	+53,923.0064	+250,688.4873	231 33 46.75	20.0000	231 38 57.19
111+40.0000	+53,910.5950	+250,672.8027	231 46 40.42	19.9999	231 59 29.22
111+60.0000	+53,898.2794	+250,657.0444	232 14 50.81	19.9999	232 35 17.98
111+80.0000	+53,886.1287	+250,641.1587	232 58 17.94	19.9998	233 26 23.47
112+00.0000	+53,874.2156	+250,625.0943	233 57 01.80	19.9996	234 32 45.70
112+20.0000	+53,862.6148	+250,608.8029	235 11 02.39	19.9994	235 54 24.66
112+40.0000	+53,851.4043	+250,592.2408	236 40 19.71	19.9992	237 31 20.35
112+60.0000	+53,840.6653	+250,575.3695	238 24 53.77	3.1213	238 33 42.84
112+63.1213	+53,839.0373	+250,572.7064	238 42 35.64		

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/hl

\*\*\*\*\* NAIROBI BYPASS CENTER \*\*\*\*\* S-12331-I (FORM 9)

KE 11-1 / KE 11-2 L= 159.8176

R1= + 600.0000  
A = 0.0000  
R2= + 600.0000

S T A. X Y T D A

112+63.1213	+53,839.0373	+250,572.7064	238.42	35.66	16.8781	239.30	56.87
112+80.0000	+53,830.4750	+250,558.1613	240.19	18.10	19.9991	241.16	35.85
113+00.0000	+53,820.8638	+250,540.6231	242.13	53.59	19.9991	243.11	11.34
113+20.0000	+53,811.8425	+250,522.7744	244.08	29.09	19.9991	245.05	46.83
113+40.0000	+53,803.4210	+250,504.6349	246.03	04.58	19.9991	247.00	22.33
113+60.0000	+53,795.6087	+250,486.2248	247.57	40.07	19.9991	248.54	57.82
113+80.0000	+53,788.4144	+250,467.5646	249.52	15.57	19.9991	250.49	33.31
114+00.0000	+53,781.8459	+250,448.6749	251.46	51.06	19.9991	252.44	08.81
114+20.0000	+53,775.9106	+250,429.5769	253.41	26.56	2.9389	253.49	51.71
114+22.9389	+53,775.0922	+250,426.7543	253.58	16.87			

S-12331-I (FORM 9)

CENTER

NAIROBI BYPASS

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KE 11-2 / KA 11-2 LF 150.0000

R1= + 600.0000  
A = 300.0000  
R2= 0.0000

S T A.	X	Y	T	D	A
114+22.9389	+53,775.0922	+250,426.7563	253 58 16.57	17.0606	254 45 18.27
114+40.0000	+53,770.6662	+250,410.2940	255 30 28.10	19.9994	256 18 42.44
114+60.0000	+53,765.8736	+250,390.8626	257 04 43.10	19.9996	257 44 59.18
114+80.0000	+53,761.6300	+250,371.3185	258 23 12.99	19.9997	258 55 59.18
115+00.0000	+53,757.7910	+250,351.6907	259 26 50.50	19.9998	259 51 42.45
115+20.0000	+53,754.2705	+250,332.0031	260 14 28.51	19.9999	260 32 08.99
115+40.0000	+53,750.9819	+250,312.2754	260 47 16.68	20.0000	260 57 18.80
115+60.0000	+53,747.8378	+250,292.5241	261 04 48.12	12.9389	261 06 56.02
115+72.9389	+53,745.8395	+250,279.7405	261 07 59.97		

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\*\*\*\*\* NAIROBI BYPASS CENTER \*\*\*\*\* S-12331-I (FORM 9)

KA 11-2 / KA 12-1 L= 982.3327

R1= 0.0000  
A = 0.0000  
R2= 0.0000

S	T	A	X	Y	T	P	A
115+72.9389	+53,745.8395	+250,279.7405	261 07 59.97	7.0611	261 07 59.97		
115+80.0000	+53,744.7511	+250,272.7637	261 07 59.97	20.0000	261 07 59.97		
116+00.0000	+53,741.6684	+250,253.0027	261 07 59.97	20.0000	261 07 59.97		
116+20.0000	+53,738.5857	+250,233.2418	261 07 59.97	20.0000	261 07 59.97		
116+40.0000	+53,735.5030	+250,213.4808	261 07 59.97	20.0000	261 07 59.97		
116+60.0000	+53,732.4203	+250,193.7198	261 07 59.97	20.0000	261 07 59.97		
116+80.0000	+53,729.3376	+250,173.9588	261 07 59.97	20.0000	261 07 59.97		
117+00.0000	+53,726.2549	+250,154.1978	261 07 59.97	20.0000	261 07 59.97		
117+20.0000	+53,723.1721	+250,134.4368	261 07 59.97	20.0000	261 07 59.97		
117+40.0000	+53,720.0894	+250,114.6758	261 07 59.97	20.0000	261 07 59.97		
117+60.0000	+53,717.0067	+250,094.9148	261 07 59.97	20.0000	261 07 59.97		
117+80.0000	+53,713.9240	+250,075.1538	261 07 59.97	20.0000	261 07 59.97		
118+00.0000	+53,710.8413	+250,055.3928	261 07 59.97	20.0000	261 07 59.97		
118+20.0000	+53,707.7586	+250,035.6318	261 07 59.97	20.0000	261 07 59.97		
118+40.0000	+53,704.6758	+250,015.8708	261 07 59.97	20.0000	261 07 59.97		
118+60.0000	+53,701.5931	+249,996.1098	261 07 59.97	20.0000	261 07 59.97		
118+80.0000	+53,698.5104	+249,976.3488	261 07 59.97	20.0000	261 07 59.97		
119+00.0000	+53,695.4277	+249,956.5878	261 07 59.97	20.0000	261 07 59.97		
119+20.0000	+53,692.3450	+249,936.8269	261 07 59.97	20.0000	261 07 59.97		
119+40.0000	+53,689.2623	+249,917.0659	261 07 59.97	20.0000	261 07 59.97		
119+60.0000	+53,686.1796	+249,897.3049	261 07 59.97	20.0000	261 07 59.97		
119+80.0000	+53,683.0968	+249,877.5439	261 07 59.97	20.0000	261 07 59.97		
120+00.0000	+53,680.0141	+249,857.7829	261 07 59.97	20.0000	261 07 59.97		
120+20.0000	+53,676.9314	+249,838.0219	261 07 59.97	20.0000	261 07 59.97		

120+40.0000	+53,673.8487	+249,818.2609	261 07 59.97	20.0000	261 07 59.97
120+60.0000	+53,670.7660	+249,798.6999	261 07 59.97	20.0000	261 07 59.97
120+80.0000	+53,667.6833	+249,778.7389	261 07 59.97	20.0000	261 07 59.97
121+00.0000	+53,664.6006	+249,758.9779	261 07 59.97	20.0000	261 07 59.97
121+20.0000	+53,661.5178	+249,739.2169	261 07 59.97	20.0000	261 07 59.97
121+40.0000	+53,658.4351	+249,719.4559	261 07 59.97	20.0000	261 07 59.97
121+60.0000	+53,655.3524	+249,699.6949	261 07 59.97	20.0000	261 07 59.97
121+80.0000	+53,652.2697	+249,679.9339	261 07 59.97	20.0000	261 07 59.97
122+00.0000	+53,649.1870	+249,660.1729	261 07 59.97	20.0000	261 07 59.97
122+20.0000	+53,646.1043	+249,640.4119	261 07 59.97	20.0000	261 07 59.97
122+40.0000	+53,643.0215	+249,620.6510	261 07 59.97	20.0000	261 07 59.97
122+60.0000	+53,639.9388	+249,600.8900	261 07 59.97	20.0000	261 07 59.97
122+80.0000	+53,636.8561	+249,581.1290	261 07 59.97	20.0000	261 07 59.97
123+00.0000	+53,633.7734	+249,561.3680	261 07 59.97	20.0000	261 07 59.97
123+20.0000	+53,630.6907	+249,541.6070	261 07 59.97	20.0000	261 07 59.97
123+40.0000	+53,627.6080	+249,521.8460	261 07 59.97	20.0000	261 07 59.97
123+60.0000	+53,624.5253	+249,502.0850	261 07 59.97	20.0000	261 07 59.97
123+80.0000	+53,621.4425	+249,482.3240	261 07 59.97	20.0000	261 07 59.97
124+00.0000	+53,618.3598	+249,462.5630	261 07 59.97	20.0000	261 07 59.97
124+20.0000	+53,615.2771	+249,442.8020	261 07 59.97	20.0000	261 07 59.97
124+40.0000	+53,612.1944	+249,423.0410	261 07 59.97	20.0000	261 07 59.97
124+60.0000	+53,609.1117	+249,403.2800	261 07 59.97	20.0000	261 07 59.97
124+80.0000	+53,606.0290	+249,383.5190	261 07 59.97	20.0000	261 07 59.97
125+00.0000	+53,602.9463	+249,363.7580	261 07 59.97	20.0000	261 07 59.97
125+20.0000	+53,599.8635	+249,343.9970	261 07 59.97	20.0000	261 07 59.97
125+40.0000	+53,596.7808	+249,324.2361	261 07 59.97	15.2715	261 07 59.97
125+55.2715	+53,594.4269	+249,309.1470	261 07 59.97		



CENTER

NAIROBI BYPASS

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KA 12-1 / KE 12-1 L= 150,000

R1= 0.0000  
A = 300.0000  
R2= + 600.0000

S T A. X Y T A

125+55.2715	+53,594.4269	+249,309.1470	261 07 59.97	4.7285	261 08 08.51
125+60.0000	+53,593.6983	+249,304.4750	261 08 25.59	20.0000	261 12 46.74
125+80.0000	+53,590.6431	+249,284.7098	261 19 40.69	20.0000	261 31 40.21
126+00.0000	+53,587.6965	+249,264.9281	261 46 12.52	19.9999	262 05 50.41
126+20.0000	+53,584.9467	+249,245.1181	262 28 01.09	19.9998	262 55 17.35
126+40.0000	+53,582.4821	+249,225.2708	263 25 06.39	19.9996	264 00 01.01
126+60.0000	+53,580.3917	+249,205.3807	264 37 28.42	19.9995	265 20 01.41
126+80.0000	+53,578.7647	+249,185.4475	266 05 07.19	19.9993	266 55 18.54
127+00.0000	+53,577.6908	+249,165.4772	267 48 02.69	5.2715	268 02 47.57
127+05.2715	+53,577.5111	+249,160.2087	268 17 43.07		

KE 12-1 / KE 12-2 L= 191.0267

R1= + 600.0000  
A = 0.0000  
R2= + 600.0000

S T A. X Y T D A

127+05.2715	+53,577.5111	+249,160.2087	268 17 43.07	14.7281	268 59 54.70
127+20.0000	+53,577.2537	+249,145.4829	269 42 06.34	19.9991	270 39 24.08
127+40.0000	+53,577.4829	+249,125.4851	271 36 41.83	19.9991	272 33 59.58
127+60.0000	+53,578.3784	+249,105.5061	273 31 17.32	19.9991	274 28 35.07
127+80.0000	+53,579.9393	+249,085.5680	275 25 52.82	19.9991	276 23 10.56
128+00.0000	+53,582.1638	+249,065.6930	277 20 28.31	19.9991	278 17 46.06
128+20.0000	+53,585.0495	+249,045.9032	279 15 03.80	19.9991	280 12 21.55
128+40.0000	+53,588.5931	+249,026.2206	281 09 39.30	19.9991	282 06 57.04
128+60.0000	+53,592.7907	+249,006.6670	283 04 14.79	19.9991	284 01 32.54
128+80.0000	+53,597.6376	+248,987.2642	284 58 50.28	16.2977	285 45 31.74
128+96.2982	+53,602.0639	+248,971.5790	286 32 13.21		

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\*\*\*\*\* S-12331-I (FORM 9)

CENTER

NAIROBI BYPASS

KE 12-2 / KA 12-2 L= 150.0000

R1= 600.0000  
A = 300.0000  
R2= 0.0000

S	T	A	X	Y	T	D	A
128	+96	.2982	+53,602.0639	+248,971.5790	286 32 13.21	3,7018	286 42 44.26
129	+00	.0000	+53,603.1284	+248,968.0336	286 53 10.07	19,9992	287 46 30.20
129	+20	.0000	+53,609.2338	+248,948.5891	288 37 17.53	19,9994	289 22 59.28
129	+40	.0000	+53,615.8712	+248,930.1232	290 06 08.24	19,9996	290 44 11.63
129	+60	.0000	+53,622.9525	+248,911.4192	291 19 42.23	19,9998	291 50 07.25
129	+80	.0000	+53,630.3913	+248,892.8543	292 17 59.48	19,9999	292 40 46.14
130	+00	.0000	+53,638.1027	+248,874.4009	293 01 00.01	19,9999	293 16 08.29
130	+20	.0000	+53,646.0037	+248,856.0277	293 28 43.79	20.0000	293 36 13.72
130	+40	.0000	+53,654.0119	+248,837.7010	293 41 10.85	6.2982	293 41 41.15
130	+46	.2982	+53,656.5429	+248,831.9337	293 41 56.31		

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\*\*\*\*\* NAIROBI BYPASS CENTER \*\*\*\*\* S-12331-I (FORM 9)

KA 12-27 KA 13-1 L= 437.8662

R1= 0.0000  
A = 0.0000  
R2= 0.0000

S	T	A	X	Y	Z	P	A
130	+46	.2982	+53,656.5429	+248,831.9337	293 41 56.31	13.7018	293 41 56.31
130	+60	.0000	+53,662.0501	+248,819.3874	293 41 56.31	20.0000	293 41 56.31
130	+80	.0000	+53,670.0887	+248,801.0740	293 41 56.31	20.0000	293 41 56.31
131	+00	.0000	+53,678.1273	+248,782.7606	293 41 56.31	20.0000	293 41 56.31
131	+20	.0000	+53,686.1659	+248,764.4472	293 41 56.31	20.0000	293 41 56.31
131	+40	.0000	+53,694.2046	+248,746.1339	293 41 56.31	20.0000	293 41 56.31
131	+60	.0000	+53,702.2432	+248,727.8205	293 41 56.31	20.0000	293 41 56.31
131	+80	.0000	+53,710.2818	+248,709.5071	293 41 56.31	20.0000	293 41 56.31
132	+00	.0000	+53,718.3205	+248,691.1937	293 41 56.31	20.0000	293 41 56.31
132	+20	.0000	+53,726.3591	+248,672.8803	293 41 56.31	20.0000	293 41 56.31
132	+40	.0000	+53,734.3977	+248,654.5669	293 41 56.31	20.0000	293 41 56.31
132	+60	.0000	+53,742.4363	+248,636.2535	293 41 56.31	20.0000	293 41 56.31
132	+80	.0000	+53,750.4750	+248,617.9401	293 41 56.31	20.0000	293 41 56.31
133	+00	.0000	+53,758.5136	+248,599.6267	293 41 56.31	20.0000	293 41 56.31
133	+20	.0000	+53,766.5522	+248,581.3133	293 41 56.31	20.0000	293 41 56.31
133	+40	.0000	+53,774.5908	+248,562.9999	293 41 56.31	20.0000	293 41 56.31
133	+60	.0000	+53,782.6295	+248,544.6865	293 41 56.31	20.0000	293 41 56.31
133	+80	.0000	+53,790.6681	+248,526.3731	293 41 56.31	20.0000	293 41 56.31
134	+00	.0000	+53,798.7067	+248,508.0597	293 41 56.31	20.0000	293 41 56.31
134	+20	.0000	+53,806.7454	+248,489.7463	293 41 56.31	20.0000	293 41 56.31
134	+40	.0000	+53,814.7840	+248,471.4329	293 41 56.31	20.0000	293 41 56.31
134	+60	.0000	+53,822.8226	+248,453.1195	293 41 56.31	20.0000	293 41 56.31
134	+80	.0000	+53,830.8612	+248,434.8061	293 41 56.31	6.1644	293 41 56.31
134	+84	.1644	+53,832.5351	+248,430.9929	293 41 56.31		

S-12331-1 (FORM 9)

CENTER

NAIROBI BYPASS

KA 13-1 / KE 13-1 L= 122,5000

R1= 0.0000  
A = 350.0000  
R2= + 1,000.0000

S	T	A.	X	Y	Z	D	A
134	84	1644	+53,832.5351	+248,430.9929	293 41 56.31	15.8356	293 43 06.68
135	00	0000	+53,838.9048	+248,416.4949	293 45 27.43	20.0000	293 51 46.32
135	20	0000	+53,846.9958	+248,398.2046	293 59 57.46	20.0000	294 11 53.11
135	40	0000	+53,855.1936	+248,379.9620	294 25 41.01	19.9999	294 43 13.42
135	60	0000	+53,863.5574	+248,361.7949	295 02 38.09	19.9998	295 25 47.25
135	80	0000	+53,872.1454	+248,343.7328	295 50 48.68	19.9998	296 19 34.60
136	00	0000	+53,881.0149	+248,325.8073	296 50 12.78	6.6644	297 01 15.17
136	06	6644	+53,884.0427	+248,319.8704	297 12 30.03		

\*\*\*\*\* S-12331-I (FORM 9)

CENTER

NAIROBI BYPASS

KE 13-1 / KE 13-2 L= 317.7322

R1= + 1,000.0000  
A = 0.0000  
R2= + 1,000.0000

S	T	A.	X	Y	T	D	A
136+06.0000	+53,884.0427	+248,319.8704	297 12 30.03	13.3355	297 35 25.36		
136+20.0000	+53,890.2190	+248,308.0514	297 58 20.69	19.9997	298 32 43.33		
136+40.0000	+53,899.7759	+248,290.4829	299 07 05.28	19.9997	299 41 28.63		
136+60.0000	+53,909.6823	+248,273.1091	300 15 51.28	19.9997	300 50 13.93		
136+80.0000	+53,919.9341	+248,255.9368	301 24 36.57	19.9997	301 58 59.22		
137+00.0000	+53,930.5273	+248,238.9730	302 33 21.87	19.9997	303 07 44.52		
137+20.0000	+53,941.4577	+248,222.2245	303 42 07.17	19.9997	304 16 29.81		
137+40.0000	+53,952.7208	+248,205.6978	304 50 52.46	19.9997	305 25 15.11		
137+60.0000	+53,964.3121	+248,189.3998	305 59 37.76	19.9997	306 34 00.41		
137+80.0000	+53,976.2271	+248,173.3368	307 08 23.05	19.9997	307 42 45.70		
138+00.0000	+53,988.4610	+248,157.5153	308 17 08.35	19.9997	308 51 31.00		
138+20.0000	+54,001.0088	+248,141.9416	309 25 53.65	19.9997	310 00 16.30		
138+40.0000	+54,013.8655	+248,126.6220	310 34 38.94	19.9997	311 09 01.59		
138+60.0000	+54,027.0261	+248,111.5626	311 43 24.24	19.9997	312 17 46.89		
138+80.0000	+54,040.4852	+248,096.7693	312 52 09.54	19.9997	313 26 32.18		
139+00.0000	+54,054.2374	+248,082.2482	314 00 54.83	19.9997	314 35 17.48		
139+20.0000	+54,068.2773	+248,068.0050	315 09 40.13	4.3966	315 17 13.56		
139+24.3967	+54,071.4017	+248,064.9118	315 24 47.00				

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\*\*\*\*\* NAIROBI BYPASS CENTER \*\*\*\*\* S-12331-1 (FORM 9)

XE 13-2 / KA 13-2 L= 122.5000

R1= + 1,000.0000

A = 350.0000

R2= 0.0000

S T A.	X	Y	T	D	A
139+24.3967	+54,071.4017	+248,064.9118	315 24 47.00	15.6032	315 50 27.89
139+40.0000	+54,082.5956	+248,054.0418	316 15 00.45	19.9998	316 43 08.12
139+60.0000	+54,097.1555	+248,040.3303	317 09 23.53	19.9999	317 31 54.44
139+80.0000	+54,111.9084	+248,026.8268	317 52 33.10	19.9999	318 09 27.24
140+00.0000	+54,126.8030	+248,013.4852	318 24 29.14	20.0000	318 35 46.53
140+20.0000	+54,141.8093	+248,000.2580	318 45 11.67	20.0000	318 50 52.30
140+40.0000	+54,156.8686	+247,987.0968	318 54 40.68	6.8967	318 55 07.37
140+66.8967	+54,162.0672	+247,982.5648	318 55 20.72		

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\*\*\*\*\* NAIROBI BYPASS CENTER \*\*\*\*\* S-12331-I (FORM 9)

KA 13-2 / KA 14-1 L= 548.1861

R1= 0.0000  
A = 0.0000  
R2= 0.0000

S	T	A	X	Y	T	D	A
140+46.0000	+54,162.0672	+247,982.5648	318 55 20.72	13.1033	318 55 20.72		
140+60.0000	+54,171.9447	+247,973.9548	318 55 20.72	20.0000	318 55 20.72		
140+80.0000	+54,187.0212	+247,960.8132	318 55 20.72	20.0000	318 55 20.72		
141+00.0000	+54,202.0576	+247,947.6716	318 55 20.72	20.0000	318 55 20.72		
141+20.0000	+54,217.1740	+247,934.5300	318 55 20.72	20.0000	318 55 20.72		
141+40.0000	+54,232.2504	+247,921.3884	318 55 20.72	20.0000	318 55 20.72		
141+60.0000	+54,247.3268	+247,908.2468	318 55 20.72	20.0000	318 55 20.72		
141+80.0000	+54,262.4032	+247,895.1052	318 55 20.72	20.0000	318 55 20.72		
142+00.0000	+54,277.4796	+247,881.9636	318 55 20.72	20.0000	318 55 20.72		
142+20.0000	+54,292.5560	+247,868.8220	318 55 20.72	20.0000	318 55 20.72		
142+40.0000	+54,307.6325	+247,855.6804	318 55 20.72	20.0000	318 55 20.72		
142+60.0000	+54,322.7089	+247,842.5388	318 55 20.72	20.0000	318 55 20.72		
142+80.0000	+54,337.7853	+247,829.3972	318 55 20.72	20.0000	318 55 20.72		
143+00.0000	+54,352.8617	+247,816.2556	318 55 20.72	20.0000	318 55 20.72		
143+20.0000	+54,367.9381	+247,803.1140	318 55 20.72	20.0000	318 55 20.72		
143+40.0000	+54,383.0145	+247,789.9723	318 55 20.72	20.0000	318 55 20.72		
143+60.0000	+54,398.0909	+247,776.8307	318 55 20.72	20.0000	318 55 20.72		
143+80.0000	+54,413.1673	+247,763.6891	318 55 20.72	20.0000	318 55 20.72		
144+00.0000	+54,428.2438	+247,750.5475	318 55 20.72	20.0000	318 55 20.72		
144+20.0000	+54,443.3202	+247,737.4059	318 55 20.72	20.0000	318 55 20.72		
144+40.0000	+54,458.3966	+247,724.2643	318 55 20.72	20.0000	318 55 20.72		
144+60.0000	+54,473.4730	+247,711.1227	318 55 20.72	20.0000	318 55 20.72		
144+80.0000	+54,488.5494	+247,697.9811	318 55 20.72	20.0000	318 55 20.72		
145+00.0000	+54,503.6258	+247,684.8395	318 55 20.72	20.0000	318 55 20.72		



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\*\*\*\*\* NAIROBI BYPASS CENTER \*\*\*\*\* S-12331-I (FORM 9)

KA 13-2 / KA 14-1									
145+20.0000	+54,518.7022	+247,671.6979	318.55	20.72	20.0000	318.55	20.72		
145+40.0000	+54,533.7786	+247,658.5563	318.55	20.72	20.0000	318.55	20.72		
145+60.0000	+54,548.8550	+247,645.4147	318.55	20.72	20.0000	318.55	20.72		
145+80.0000	+54,563.9315	+247,632.2731	318.55	20.72	15.0827	318.55	20.72		
145+95.0827	+54,575.3011	+247,622.3625	318.55	20.72					

KA 14-1 / KF 14-1 L= 150.0000

R1= 0.0000  
A = 300.0000  
R2= + 600.0000

S	T	A	X	Y	T	D	A
145+95.0827	+54,575.3011	+247,622.3625	318.55	20.72	6.9173	318.55	29.96
146+00.0000	+54,579.0020	+247,619.1316	318.55	48.43	20.0000	319.00	13.91
146+20.0000	+54,594.1031	+247,606.0115	319.07	12.19	19.9999	319.19	16.04
146+40.0000	+54,609.2705	+247,592.9751	319.33	52.68	19.9999	319.53	34.90
146+60.0000	+54,624.5673	+247,580.0909	320.15	49.90	19.9998	320.43	10.48
146+80.0000	+54,640.0483	+247,567.4287	321.13	03.86	19.9996	321.48	02.81
147+00.0000	+54,655.7653	+247,555.0610	322.25	34.54	19.9995	323.08	11.86
147+20.0000	+54,671.7662	+247,543.0631	323.53	21.96	19.9993	324.43	37.65
147+40.0000	+54,686.0938	+247,531.5141	325.36	26.12	5.0827	325.50	40.04
147+45.0827	+54,692.2998	+247,528.6605	326.05	03.82			

CENTER

NAIROBI BYPASS

KE 14-1 / KE 14-2 L= 120.0035

R1= + 600.0000  
 A = 0.0000  
 R2= + 600.0000

S T A. X Y T D A

147+45.0827	+54,692.2998	+247,528.6605	326 05 03.82	14.9169	326 47 47.92
147+60.0000	+54,704.7813	+247,520.6918	327 30 32.01	19.9991	328 27 49.75
147+80.0000	+54,721.8267	+247,510.0316	329 25 07.50	19.9991	330 22 25.25
148+00.0000	+54,739.2113	+247,500.1452	331 19 42.99	19.9991	332 17 00.74
148+20.0000	+54,756.9156	+247,490.8437	333 14 18.49	19.9991	334 11 36.23
148+40.0000	+54,774.9202	+247,482.1374	335 08 53.98	19.9991	336 06 11.73
148+60.0000	+54,793.2049	+247,474.0360	337 03 29.48	5.0862	337 18 03.73
148+65.0862	+54,797.8971	+247,472.0733	337 32 37.99		

KE 14-2 / KA 15-1 L= 150.0000

R1= + 600.0000  
 A = 300.0000  
 R2= 0.0000

S T A. X Y T D A

148+65.0862	+54,797.8971	+247,472.0733	337 32 37.99	14.9134	338 13 56.52
148+80.0000	+54,811.7472	+247,466.5427	338 53 50.09	19.9994	339 42 53.25
149+00.0000	+54,830.5061	+247,459.6091	340 29 23.62	19.9995	341 10 48.42
149+20.0000	+54,849.4364	+247,453.1573	341 49 40.42	19.9997	342 23 26.85
149+40.0000	+54,862.4990	+247,447.1070	342 54 40.48	19.9998	343 20 48.55
149+60.0000	+54,887.6600	+247,441.3755	343 44 23.82	19.9999	344 02 53.51
149+80.0000	+54,906.8898	+247,435.8789	344 18 50.42	20.0000	344 29 41.75
150+00.0000	+54,926.1619	+247,430.5325	344 38 00.28	15.0862	344 40 54.15
150+15.0862	+54,940.7121	+247,426.5470	344 42 21.09		

\*\*\*\*\* S-12331-I (FORM 9)

CENTER

NAIROBI BYPASS

KA 15-1 / KE 15-1 L= 150.0000

R1= 0.0000  
A = 300.0000  
R2= 600.0000

S	T	A.	X	Y	T	D	A
150+15	0862	+54,940.7121	+247,426.5470	344 42 21.09	4.9138	344 42 11.86	
150+20	0000	+54,965.4518	+247,425.2506	344 41 53.42	20.0000	344 37 28.01	
150+40	0000	+54,964.7360	+247,419.9477	344 30 29.82	19.9999	344 18 26.05	
150+60	0000	+54,983.9904	+247,414.5382	344 03 49.49	19.9999	343 44 07.35	
150+80	0000	+55,003.1899	+247,408.9367	343 21 52.43	19.9998	342 54 31.93	
151+00	0000	+55,022.3064	+247,403.0589	342 24 38.63	19.9996	341 49 39.77	
151+20	0000	+55,041.3086	+247,396.8215	341 12 08.11	19.9995	340 29 30.87	
151+40	0000	+55,060.1599	+247,390.1429	339 44 20.85	19.9993	338 54 05.25	
151+60	0000	+55,078.8185	+247,382.9437	338 01 16.85	5.0862	337 47 02.36	
151+65	0862	+55,083.5271	+247,381.0206	337 32 37.99			

CENTER

NAIROBI BYPASS

KE 15-1 / KE 15-2 L= 207.2887

R1= - 600.0000

A = 0.0000

R2= - 600.0000

S	T	A.	X	Y	T	D	A
151+65.0862	+55,083.5271	+247,381,0206	337 32 37.99	14.9134	336 49 54.50		
151+80.0000	+55,097.2378	+247,375.1532	336 07 11.01	19.9991	335 09 53.26		
152+00.0000	+55,115.3874	+247,366.7534	334 12 35.51	19.9991	333 15 17.76		
152+20.0000	+55,133.2469	+247,357.7534	332 18 00.02	19.9991	331 20 42.27		
152+40.0000	+55,150.7965	+247,348.1632	330 23 24.52	19.9991	329 26 06.78		
152+60.0000	+55,168.0168	+247,337.9934	328 28 49.03	19.9991	327 31 31.28		
152+80.0000	+55,184.8886	+247,327.2554	326 34 13.54	19.9991	325 36 55.79		
153+00.0000	+55,201.3932	+247,315.9610	324 39 38.04	19.9991	323 42 20.30		
153+20.0000	+55,217.5122	+247,304.1229	322 45 02.55	19.9991	321 47 44.80		
153+40.0000	+55,233.2277	+247,291.7542	320 50 27.06	19.9991	319 53 09.31		
153+60.0000	+55,248.5222	+247,278.8685	318 55 51.56	12.3747	318 20 24.46		
153+72.3750	+55,257.7675	+247,270.6429	317 44 57.37				

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CENTER

NAIROBI BYPASS

END

L= 112.5000

R1= - 600.0000  
A = 300.0000  
R2= - 2,600.0000

S	T	A	X	Y	T	D	A
153+72.0000	+55,257.7675	+247,270.6429	317 44 57.37	7.6250	317 23 28.93		
153+80.0000	+55,263.3794	+247,265.4809	317 02 22.69	19.9993	316 10 32.49		
154+00.0000	+55,277.8082	+247,251.6324	315 21 15.07	19.9995	314 37 03.23		
154+20.0000	+55,291.8553	+247,237.3966	313 55 24.18	19.9996	313 18 50.71		
154+40.0000	+55,305.5750	+247,222.8448	312 44 50.03	19.9998	312 15 54.92		
154+60.0000	+55,319.0261	+247,208.0441	311 45 32.60	19.9999	311 28 15.86		
154+80.0000	+55,332.2709	+247,193.0584	311 09 31.91	4.8750	311 05 44.27		
154+84.8750	+55,335.4753	+247,189.3846	311 02 05.71				

KE 12-1 / KE 12-2 L= 1,332.9796

R1= - 2,400.0000  
 A = 0.0000  
 R2= - 2,400.0000

S	T	A	X	Y	T	D	A
<del>151+20.0000</del>	<del>+55,214.9702</del>	<del>+247,317.9833</del>	<del>315.14</del>	<del>35.47</del>	<del>16.2755</del>	<del>315.02</del>	<del>315.02</del>
151+40.0000	+55,226.4886	+247,306.4846	314.51	16.70	19.9999	314.36	314.36
151+60.0000	+55,240.5355	+247,292.2480	314.22	37.82	19.9999	314.08	314.08
151+80.0000	+55,254.4634	+247,277.8949	313.53	58.95	19.9999	313.39	313.39
152+00.0000	+55,268.2711	+247,263.6288	313.25	20.08	19.9999	313.11	313.11
152+20.0000	+55,281.9578	+247,248.8429	312.56	41.20	19.9999	312.42	312.42
152+40.0000	+55,295.5225	+247,234.1461	312.28	02.33	19.9999	312.13	312.13
152+60.0000	+55,308.9643	+247,219.3367	311.59	23.46	19.9999	311.45	311.45
<del>152+80.0000</del>	<del>+55,322.2822</del>	<del>+247,204.4159</del>	<del>311.30</del>	<del>44.58</del>	<del>19.9999</del>	<del>311.16</del>	<del>311.16</del>
153+00.0000	+55,335.4753	+247,189.3846	311.02	05.71	19.9999	310.47	310.47
153+20.0000	+55,348.5426	+247,174.2439	310.33	26.84	19.9999	310.19	310.19
153+40.0000	+55,361.4834	+247,158.9948	310.04	47.96	19.9999	309.50	309.50
153+60.0000	+55,374.2966	+247,143.6384	309.36	09.09	19.9999	309.21	309.21
153+80.0000	+55,386.9814	+247,128.1757	309.07	30.21	19.9999	308.53	308.53
154+00.0000	+55,399.5369	+247,112.6079	308.38	51.34	19.9999	308.24	308.24
154+20.0000	+55,411.9623	+247,096.9360	308.10	12.47	19.9999	307.55	307.55
154+40.0000	+55,424.2566	+247,081.1611	307.41	33.59	19.9999	307.27	307.27
154+60.0000	+55,436.4190	+247,065.2843	307.12	54.72	19.9999	306.58	306.58
154+80.0000	+55,448.4487	+247,049.3067	306.44	15.85	19.9999	306.29	306.29
155+00.0000	+55,460.3449	+247,033.2294	306.15	36.97	19.9999	306.01	306.01
155+20.0000	+55,472.1066	+247,017.0535	305.46	58.10	19.9999	305.32	305.32
155+40.0000	+55,483.7332	+247,000.7802	305.18	19.23	19.9999	305.03	305.03
155+60.0000	+55,495.2237	+246,984.4106	304.49	40.35	19.9999	304.35	304.35
155+80.0000	+55,506.5774	+246,967.9437	304.21	01.48	19.9999	304.06	304.06



