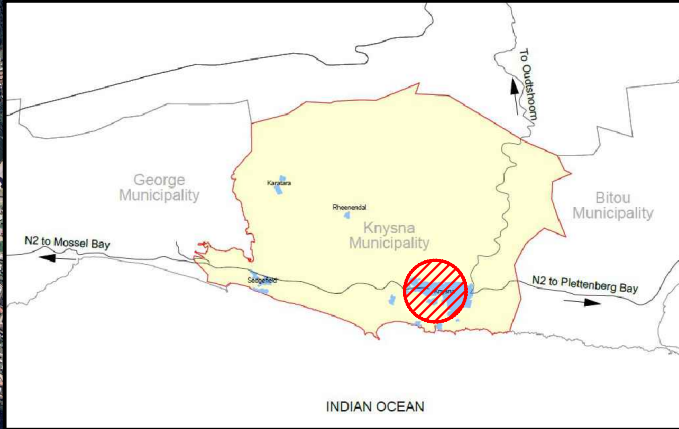
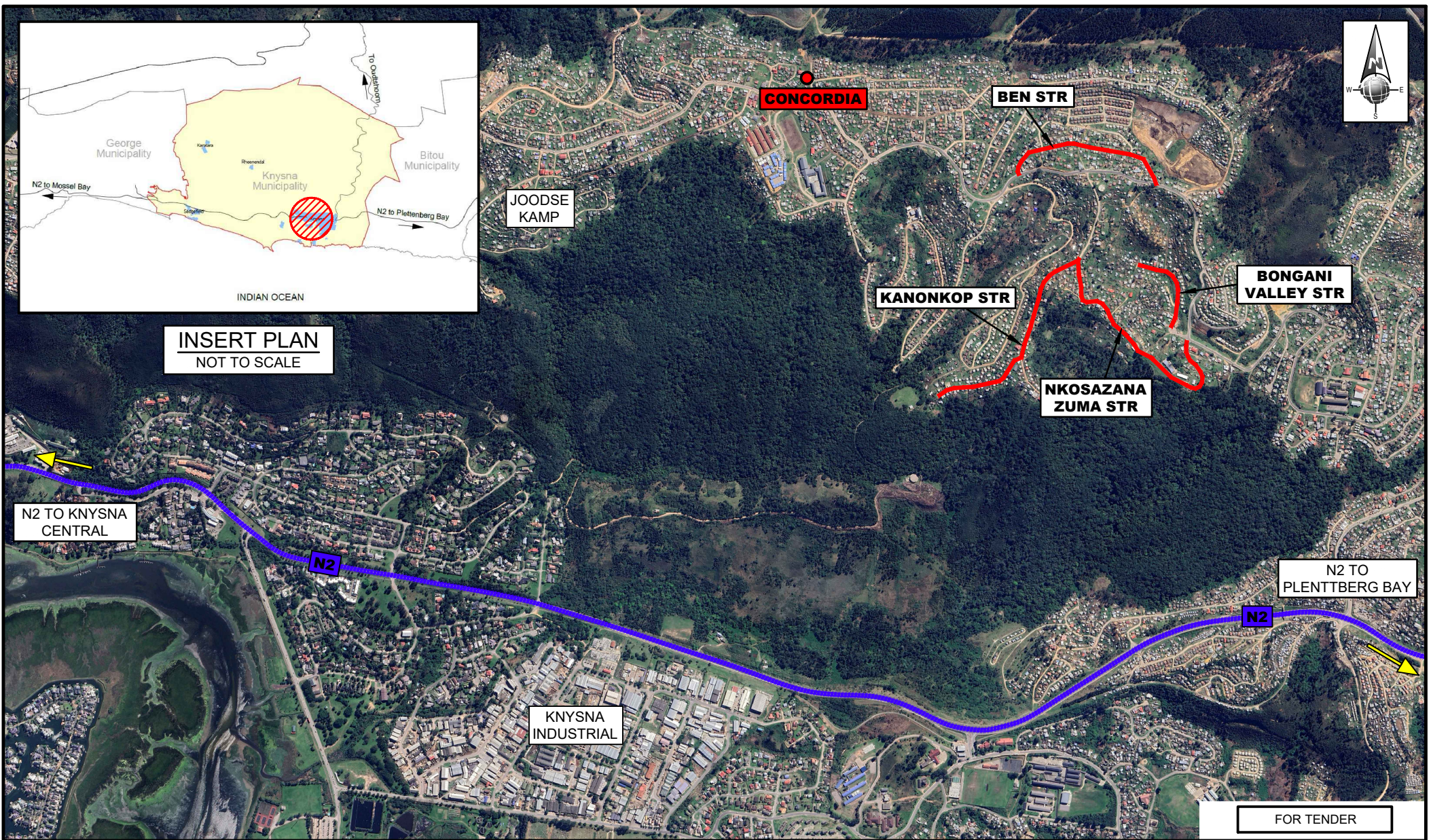




INSERT PLAN
NOT TO SCALE



FOR TENDER

1	SM	ISSUED FOR TENDER PURPOSES ONLY	JAN 23
REV	BY	DESCRIPTION	DATE
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DRAWN	SM		
CIVIL ENGINEER	ZT/AE	STRUCTURAL ENGINEER	N/A
INSTRUMENT ENGINEER	N/A	ELECTRICAL ENGINEER	N/A
MECHANICAL ENGINEER	N/A	PROCESS ENGINEER	N/A
PROJECT MANAGER	AE	DIVISIONAL MANAGER	GC



BOSCH PROJECTS

INNOVATIVE PEOPLE . EXCEPTIONAL RESULTS

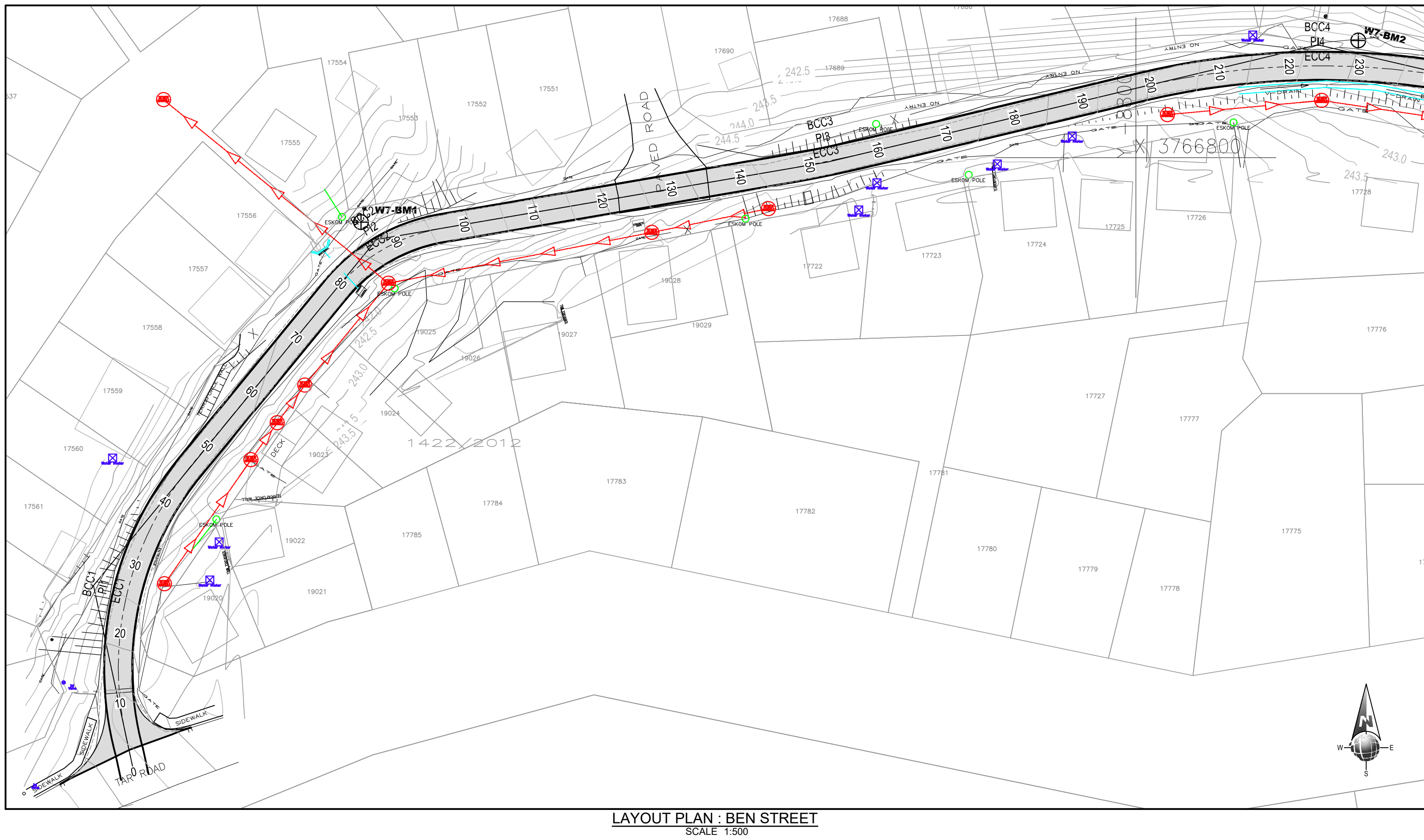
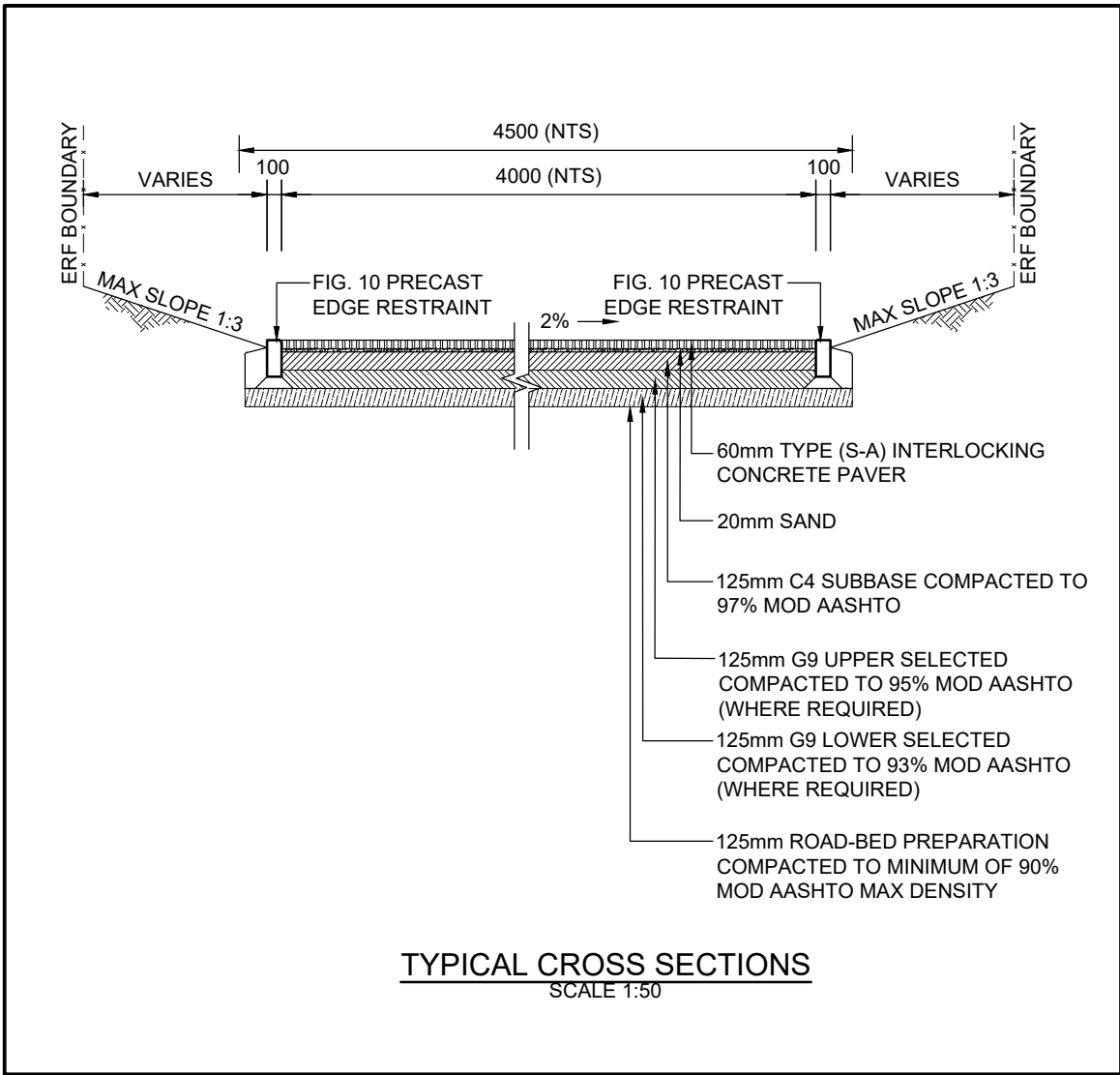
P.O. BOX 27158
GREENACRES, P.E. 6057
BLOCK 1, FIRST FLOOR,
GREENACRES OFFICE PARK
2nd AVENUE, NEWTON PARK
PORT ELIZABETH, 6046, RSA

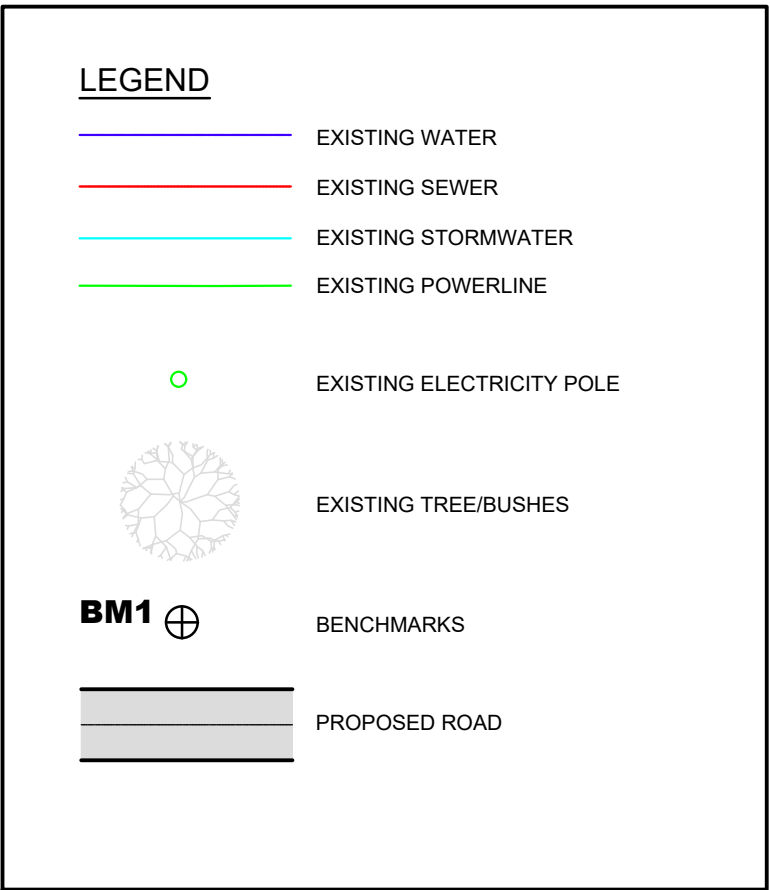
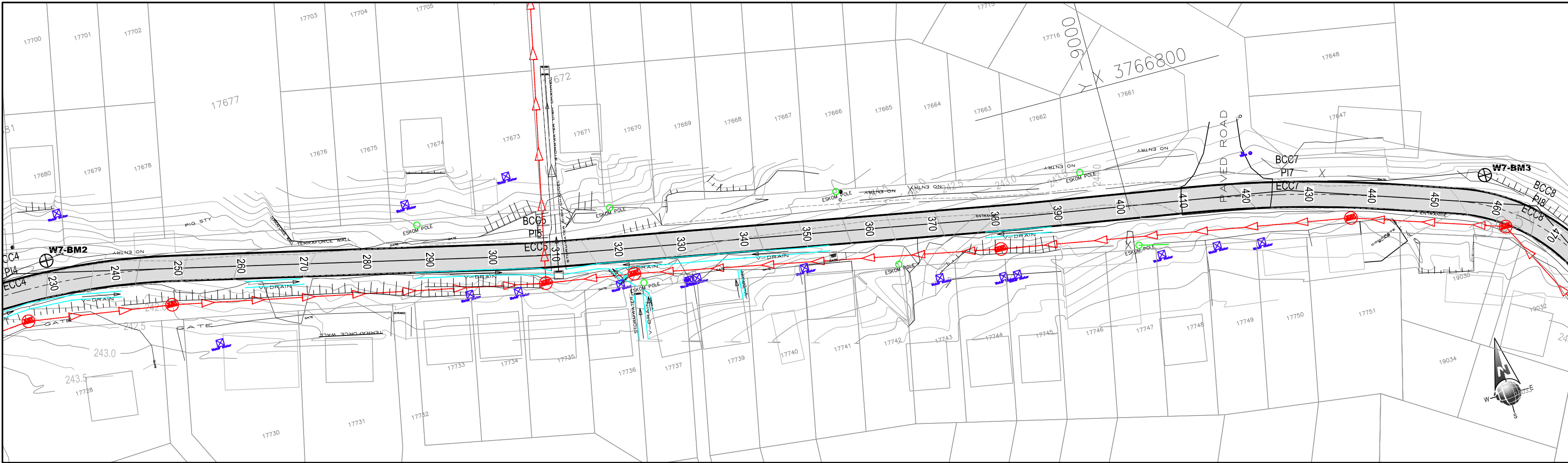
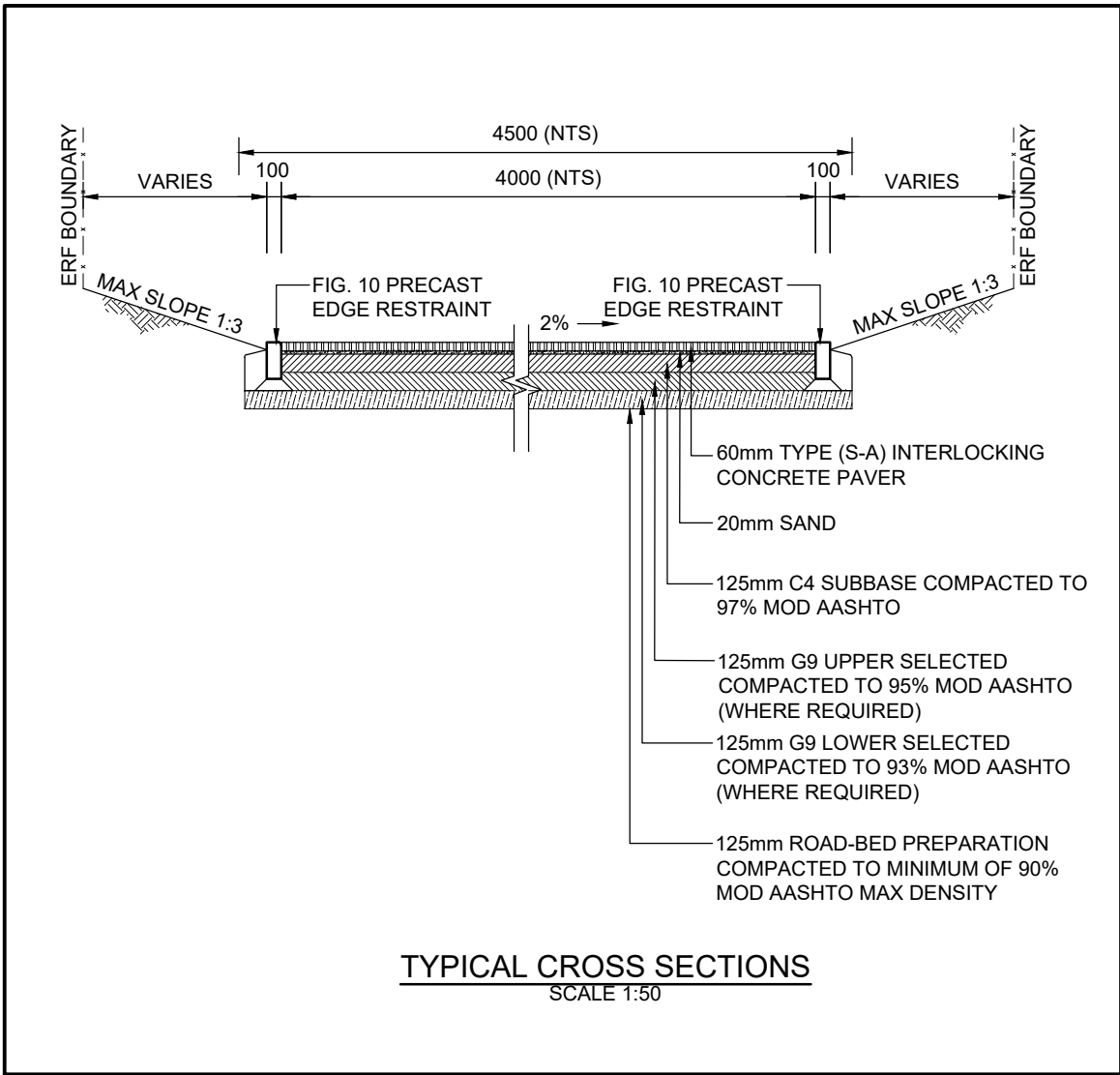
TELEPHONE: (041) 363 0598
TELEFAX: (041) 363 1646
e-mail: mail@boschprojects.co.za
website: www.boschprojects.co.za



SCALE	N.T.S
DATE	JAN 2023

KNYSNA MUNICIPALITY LOCALITY PLAN	
SURFACING OF GRAVEL ROADS IN CONCORDIA (WARD 7)	
DRAWING NUMBER	8040/001/RLA/804
SIZE	A4
REVISION	1



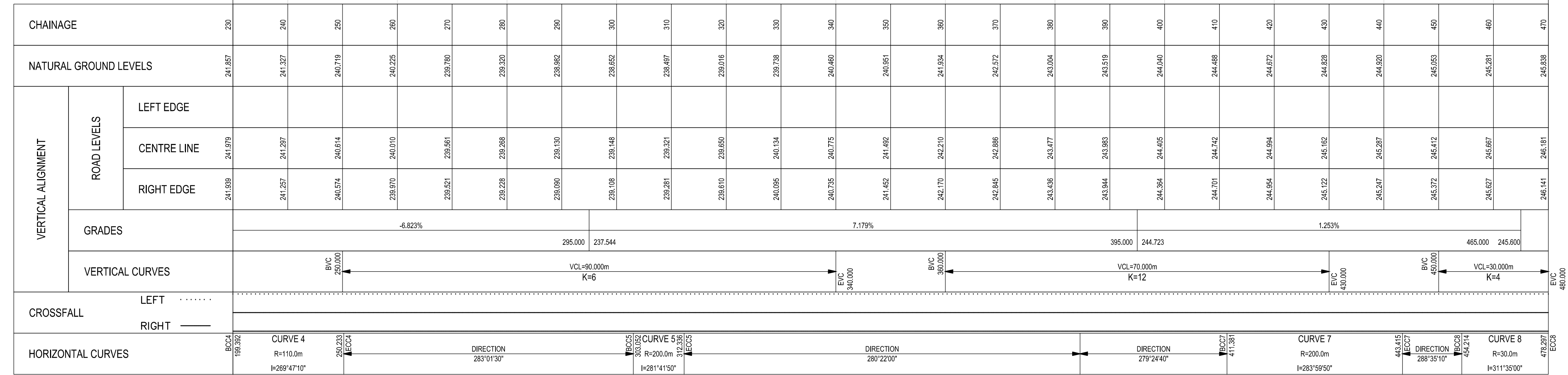


BENCHMARKS/SURVEY CONTROL			
SYSTEM WGS84/LO23			
CODE	Y CO-ORD	X CO-ORD	ELEVATION
BP3	-9114.979	3767195.191	199.725
BP4	-9220.302	3767125.600	231.610
BP5	-9179.222	3766960.364	249.914
W7-BM1	-8689.420	3766809.202	240.582
W7-BM2	-8831.765	3766783.278	241.733
W7-BM3	-9055.929	3766829.278	245.289
W7-BM4	-9030.564	3767181.218	204.360
W7-BM5	-9158.067	3767363.733	198.183
W7-BM6	-9221.653	3767572.859	219.526
W7-BM7	-8937.542	3767303.009	237.014
W7-BM8	-8843.731	3767153.857	233.532
W7-BM9	-8658.523	3767479.477	233.904
W7-BM10	-8386.335	3767595.968	203.114
ALL BENCHMARKS ARE 12mm PEG IN CONCRETE WITH A NAMEPLATE			

SETTING OUT DATA - BEN STREET				
NAME	CH	Y	X	DETAILS
START	0.000 6.328	-8 657.128 -8 655.792	3766888.407 3766882.222	L 6.328m
BCC1 PI1 ECC1	6.328 46.824	-8 655.792 -8 651.203 -8 664.990	3766 882.222 3766 860.977 3766 844.174	R 45.000m DA 51°33'40" TL 21.735m AL 40.496m
BCC2 PI2 ECC2	79.555 97.394	-8 685.753 -8 691.664 -8 700.848	3766 818.872 3766 811.668 3766 810.091	R 25.000m DA 40°53'00" TL 9.318m AL 17.839m
BCC3 PI3 ECC3	146.953 159.907	-8 749.692 -8 756.078 -8 762.379	3766 801.703 3766 800.606 3766 799.099	R 200.000m DA 3°42'40" TL 6.479m AL 12.954m
BCC4 PI4 ECC4	199.392 250.233	-8 800.781 -8 825.953 -8 851.170	3766 789.911 3766 783.889 3766 789.723	R 110.000m DA 26°28'50" TL 25.883m AL 50.841m
BCC5 PI5 ECC5	303.052 312.336	-8 902.629 -8 907.153 -8 911.719	3766 801.628 3766 802.674 3766 803.510	R 200.000m DA 2°39'30" TL 4.843m AL 9.284m
BCC7 PI7 ECC7	411.381 443.415	-9 009.225 -9 025.060 -9 040.274	3766 820.892 3766 823.516 3766 828.632	R 200.000m DA 9°10'40" TL 16.051m AL 32.034m
BCC8 PI8 ECC8	454.214 478.297	-9 050.510 -9 062.578 -9 068.043	3766 832.074 3766 836.132 3766 847.633	R 30.000m DA 45°59'40" TL 12.733m AL 24.083m
BCC9 PI9 ECC9	490.099 513.636	-9 073.109 -9 078.166 -9 084.438	3766 858.292 3766 868.934 3766 878.908	R 200.000m DA 6°44'40" TL 11.782m AL 23.538m
BCC10 PI10 ECC10	528.434 546.627	-9 092.315 -9 097.312 -9 096.888	3766 891.436 3766 899.381 3766 908.758	R 30.000m DA 34°44'40" TL 9.386m AL 18.193m
END	546.627 556.088	-9 096.888 -9 096.462	3766908.758 3766918.209	L 9.461m

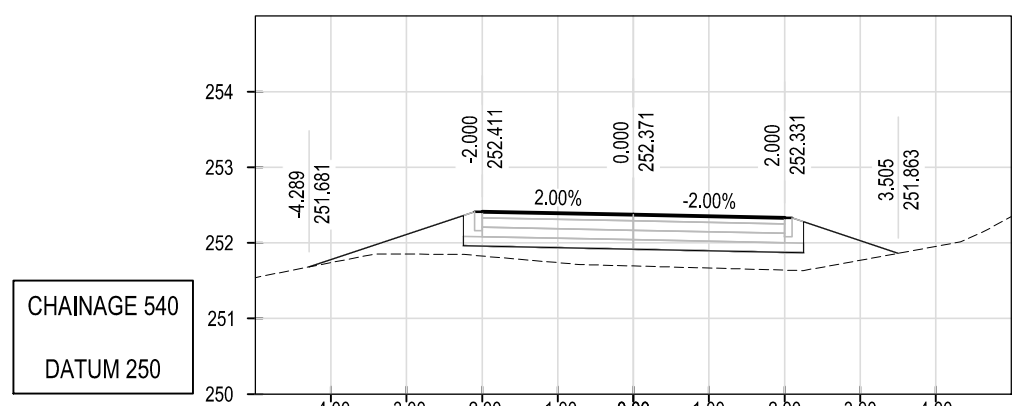
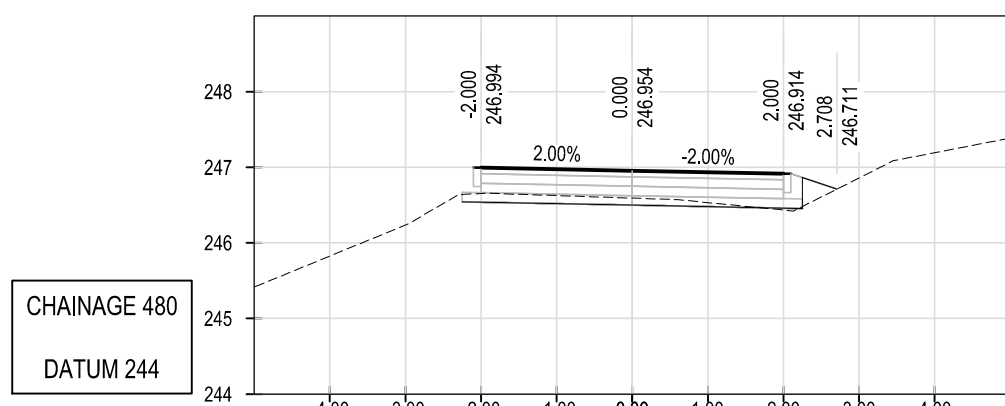
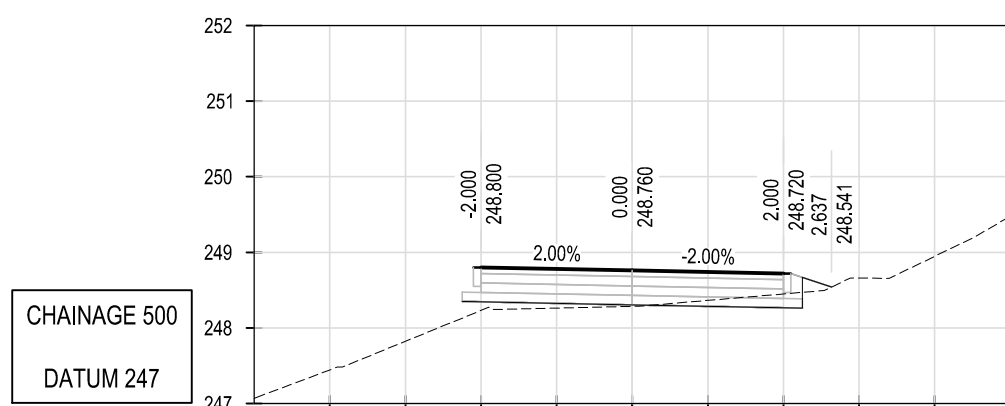
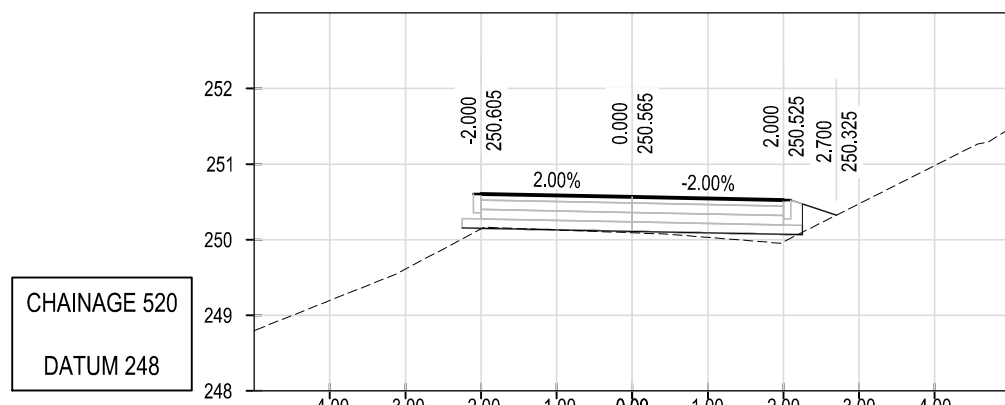
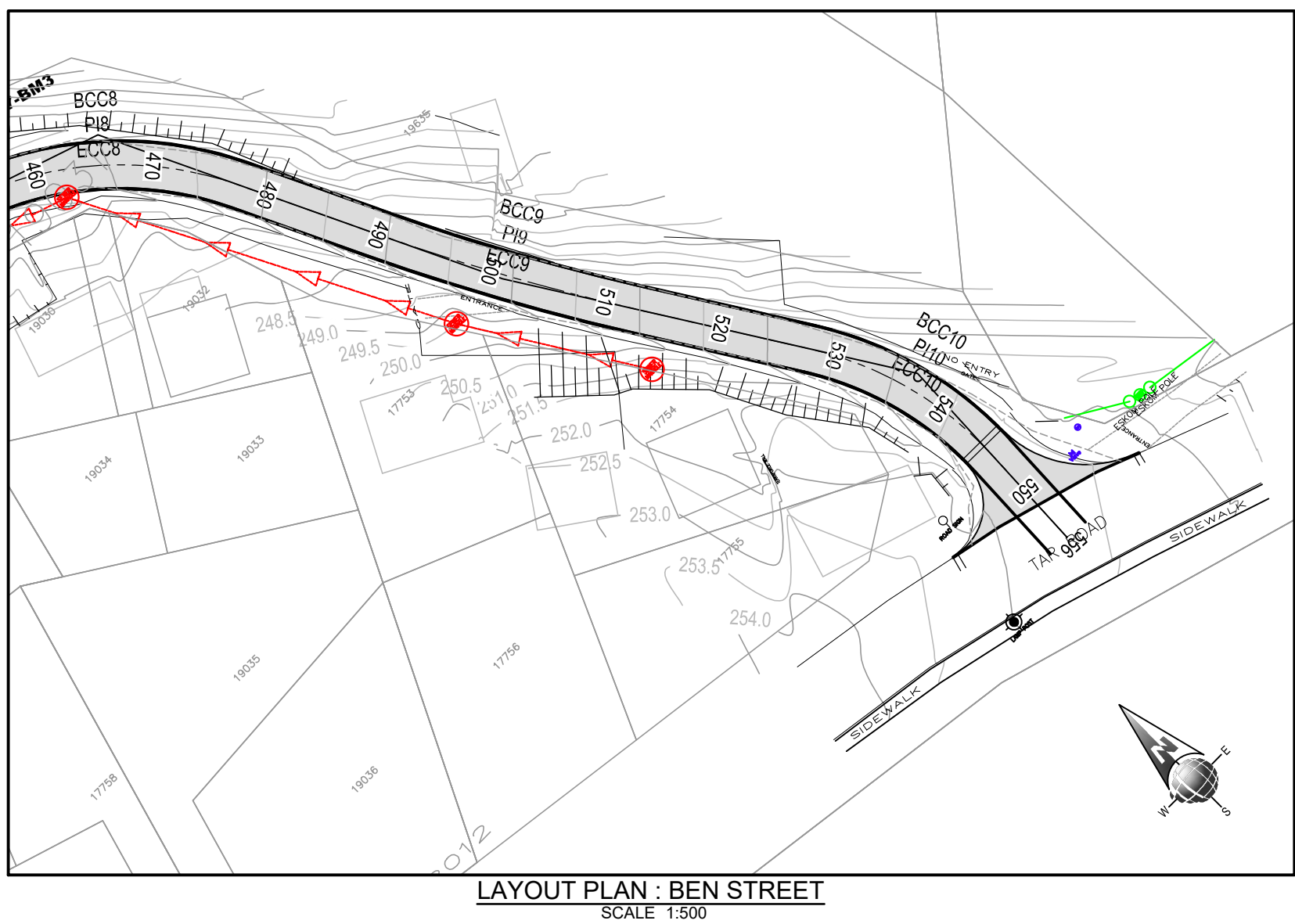
SCALES:
Horizontal 1:500
Vertical 1:50

DATUM 237.000



DRAWN	ZT
CIVIL ENGINEER	JB
STRUCTURAL ENGINEER	
INSTRUMENT ENGINEER	
ELECTRICAL ENGINEER	
MECHANICAL ENGINEER	
PROCESS ENGINEER	
PROJECT MANAGER	AE
DIVISIONAL MANAGER	AN

KNYSNA MUNICIPALITY CONTRACT TXX OF 2024/25 - SURFACING OF GRAVEL IN CONCORDIA (WARD 7)		
BEN STREET CONCORDIA		
ROAD PLAN & LONG SECTION (CH230.000 TO CH470.000)		
SCALE	AS SHOWN	DATE JULY 2025
DRAWING NUMBER	8040/001/RLS/352	SIZE A1
		REVISION 1

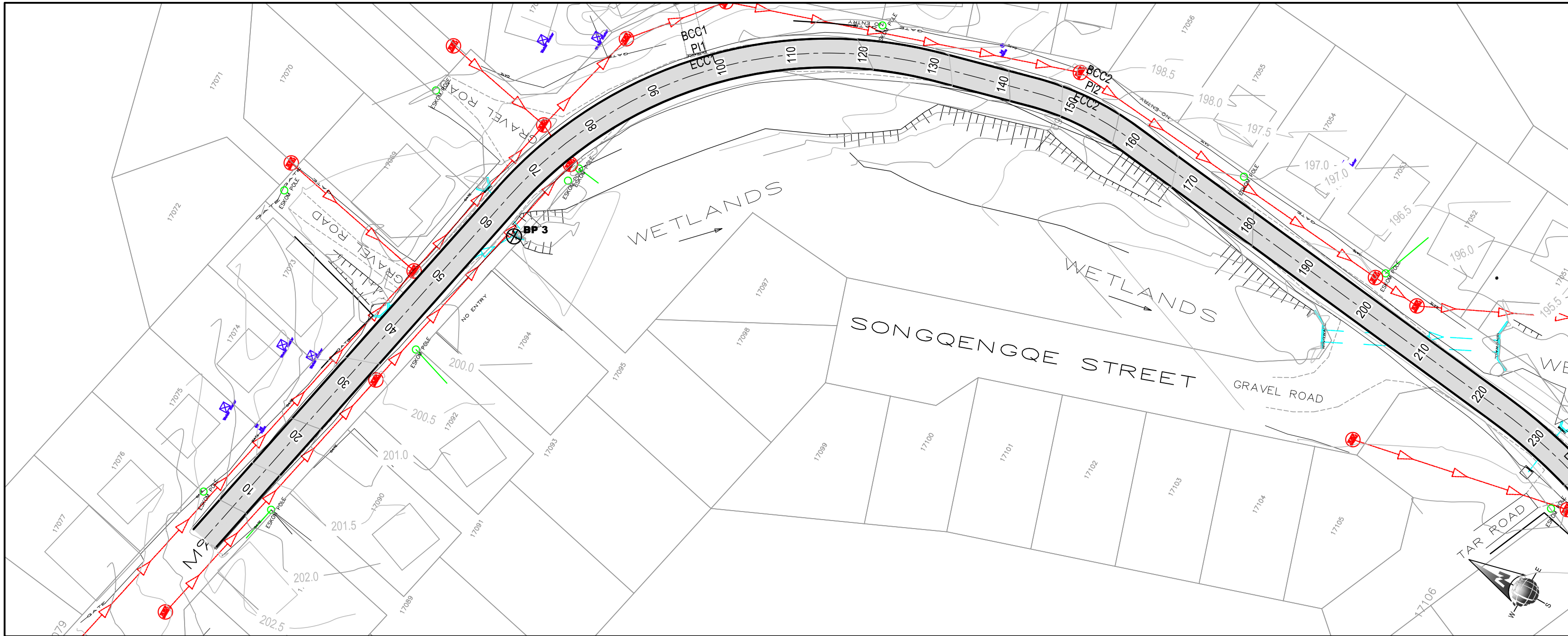
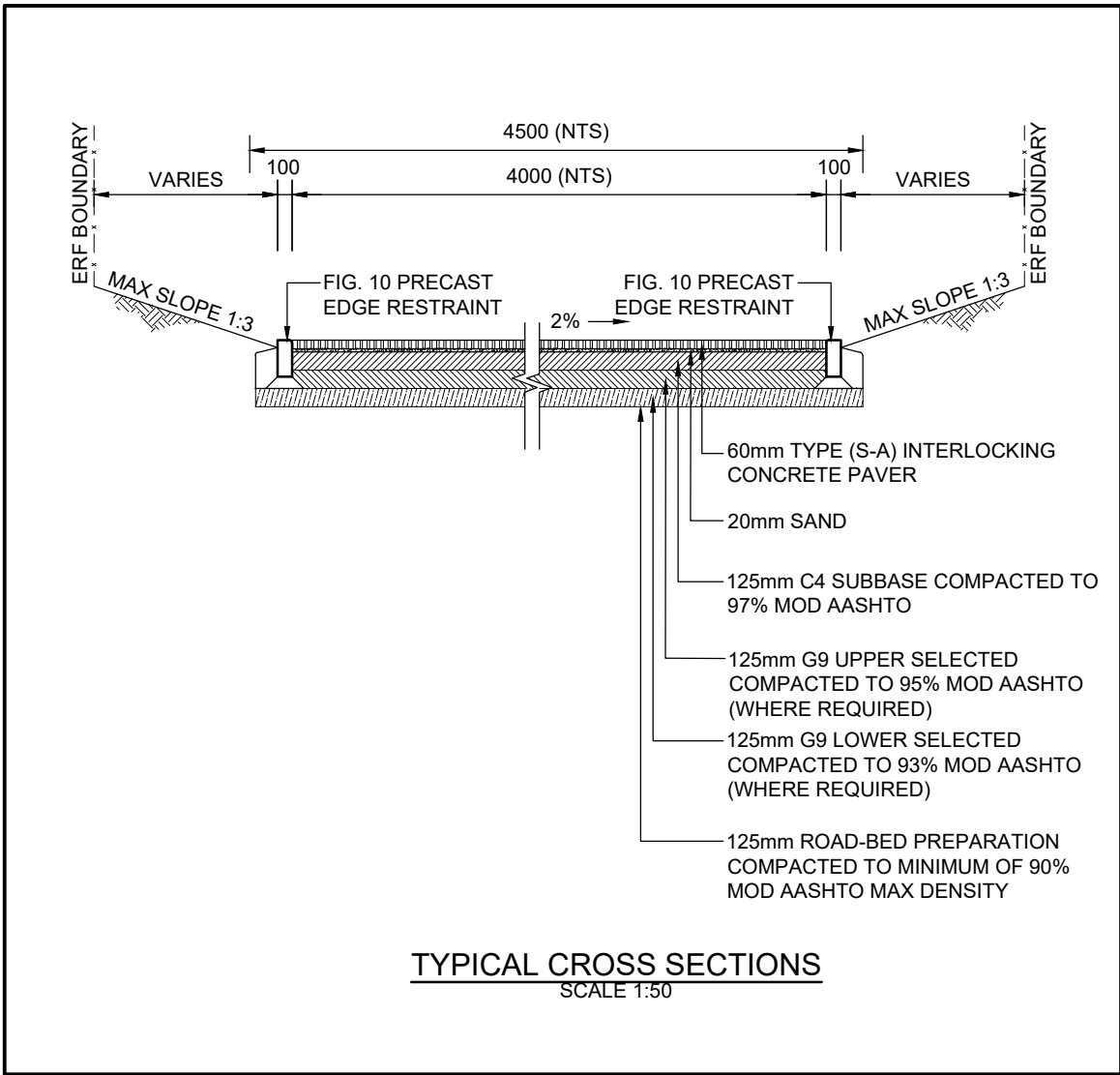


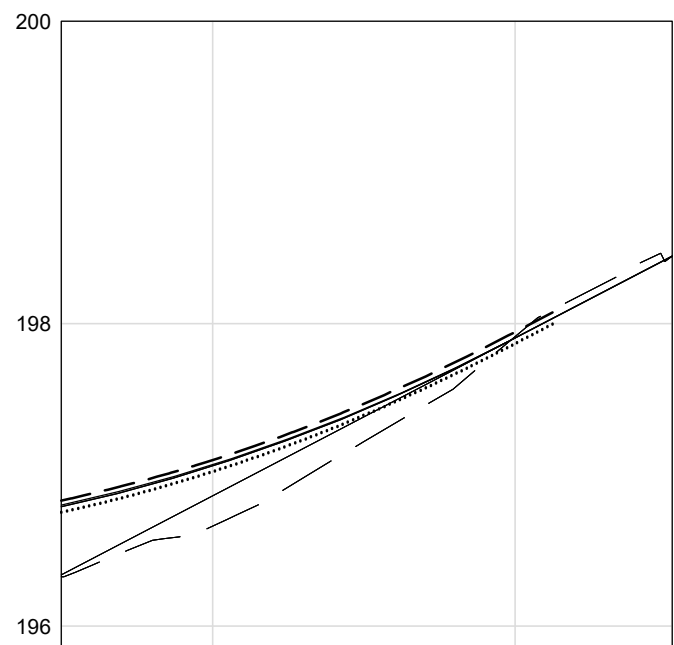
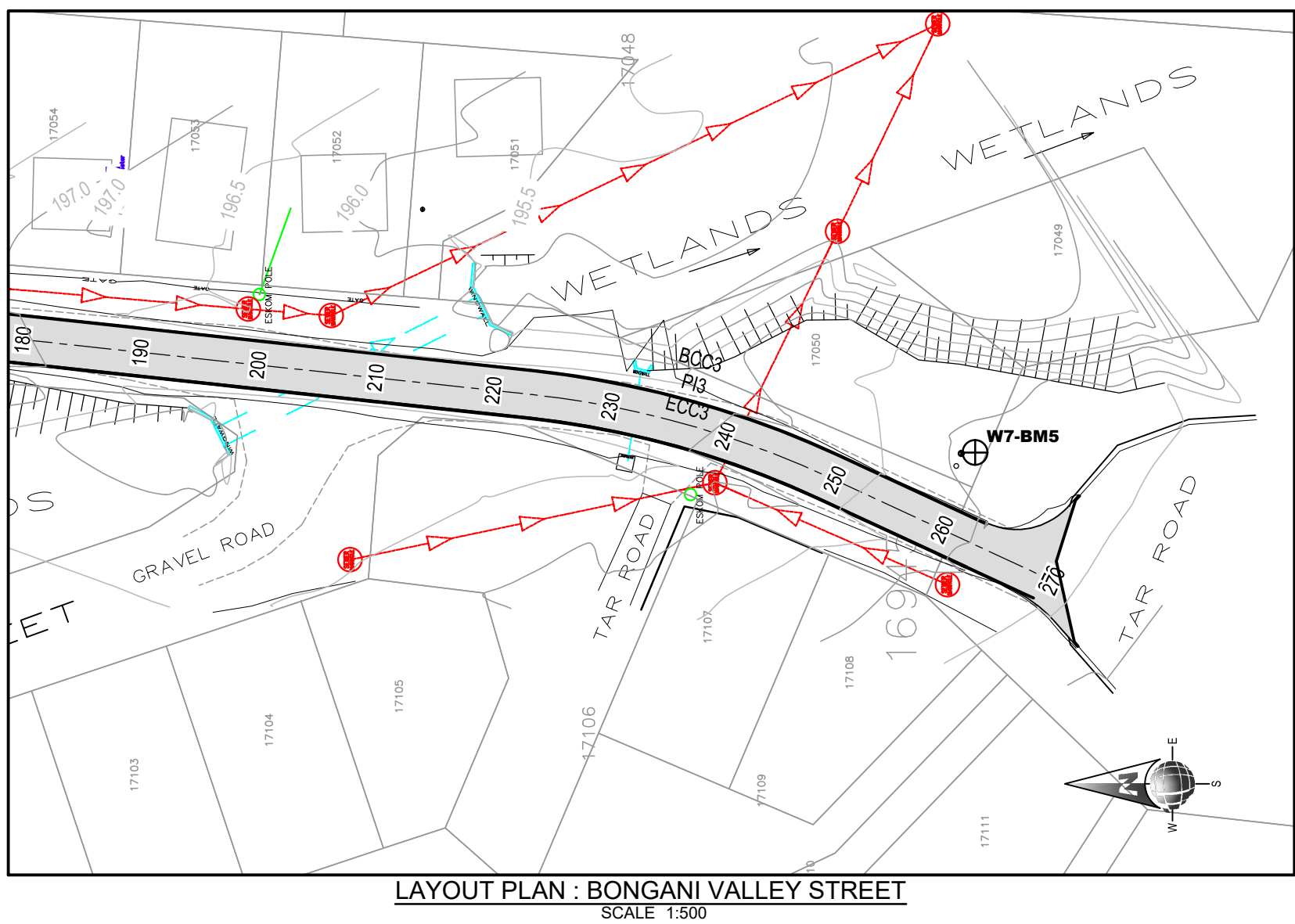
BENCHMARKS/SURVEY CONTROL			
SYSTEM WGS84/LO23			
CODE	Y CO-ORD	X CO-ORD	ELEVATION
BP3	-9114,979	3767195,191	199,725
BP4	-9220,302	3767125,600	231,610
BP5	-9179,222	3766960,364	249,914
W7-BM1	-8689,420	3766809,202	240,582
W7-BM2	-8831,765	3766783,278	241,733
W7-BM3	-9055,929	3766829,278	245,289
W7-BM4	-9030,564	3767181,218	240,360
W7-BM5	-9158,067	3767363,733	198,183
W7-BM6	-9221,653	3767572,859	219,526
W7-BM7	-8937,542	3767303,009	237,014
W7-BM8	-8843,731	3767153,857	233,532
W7-BM9	-8658,523	3767479,477	233,904
W7-BM10	-8386,335	3767595,968	203,114

ALL BENCHMARKS ARE 12mm PEG IN CONCRETE WITH A NAMEPLATE

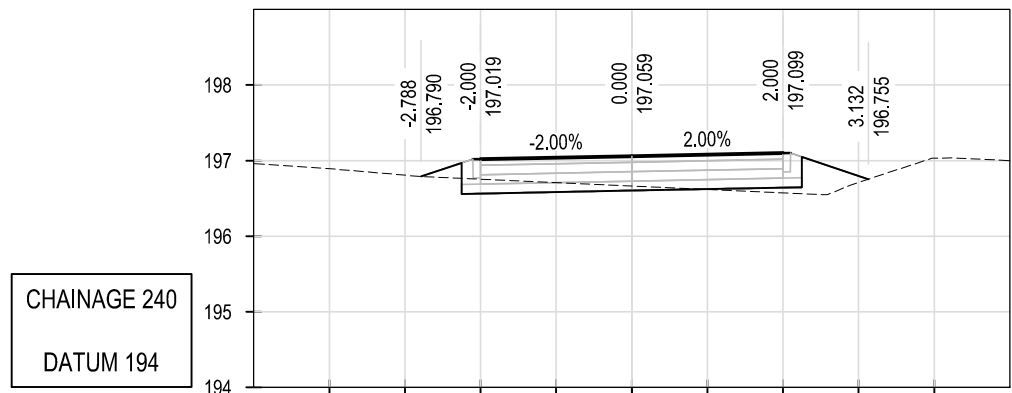
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KNYSNA MUNICIPALITY CONTRACT TXX OF 2024/25 - SURFACING OF GRAVEL IN CONCORDIA (WARD 7) BEN STREET CONCORDIA ROAD PLAN & LONG SECTION (CH470.000 TO CH556.080)			
SCALE AS SHOWN		DATE JULY 2025	
DRAWING NUMBER		SIZE	REVISION
8040/001/RLS/353		A1	1





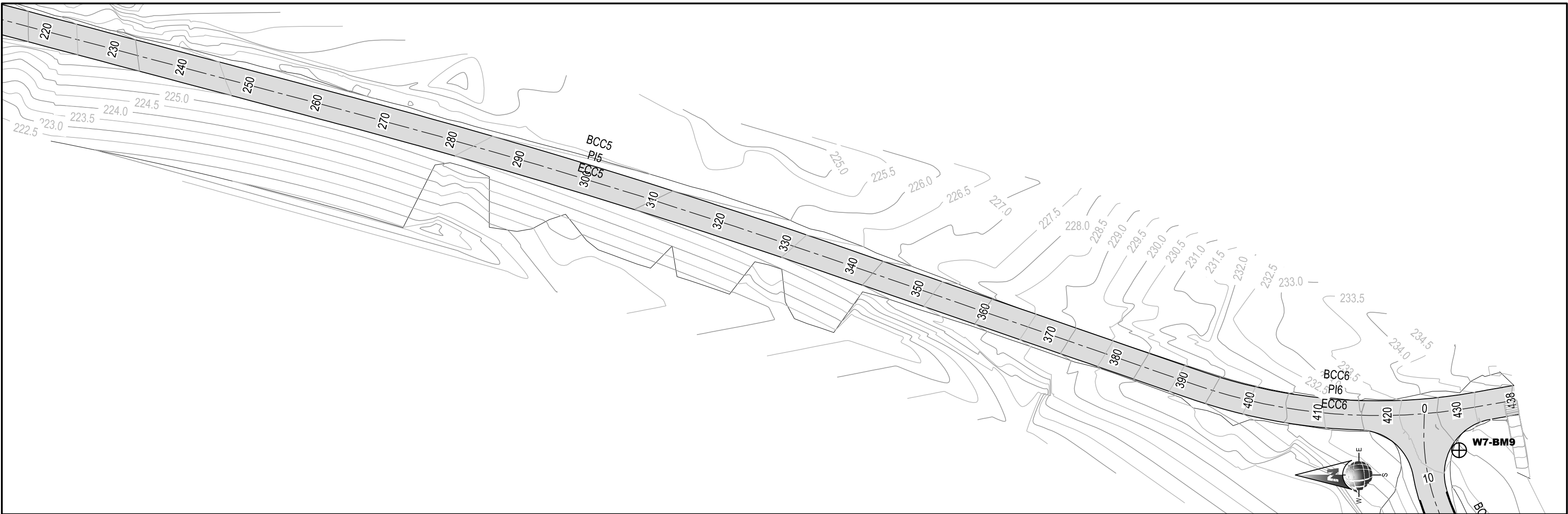
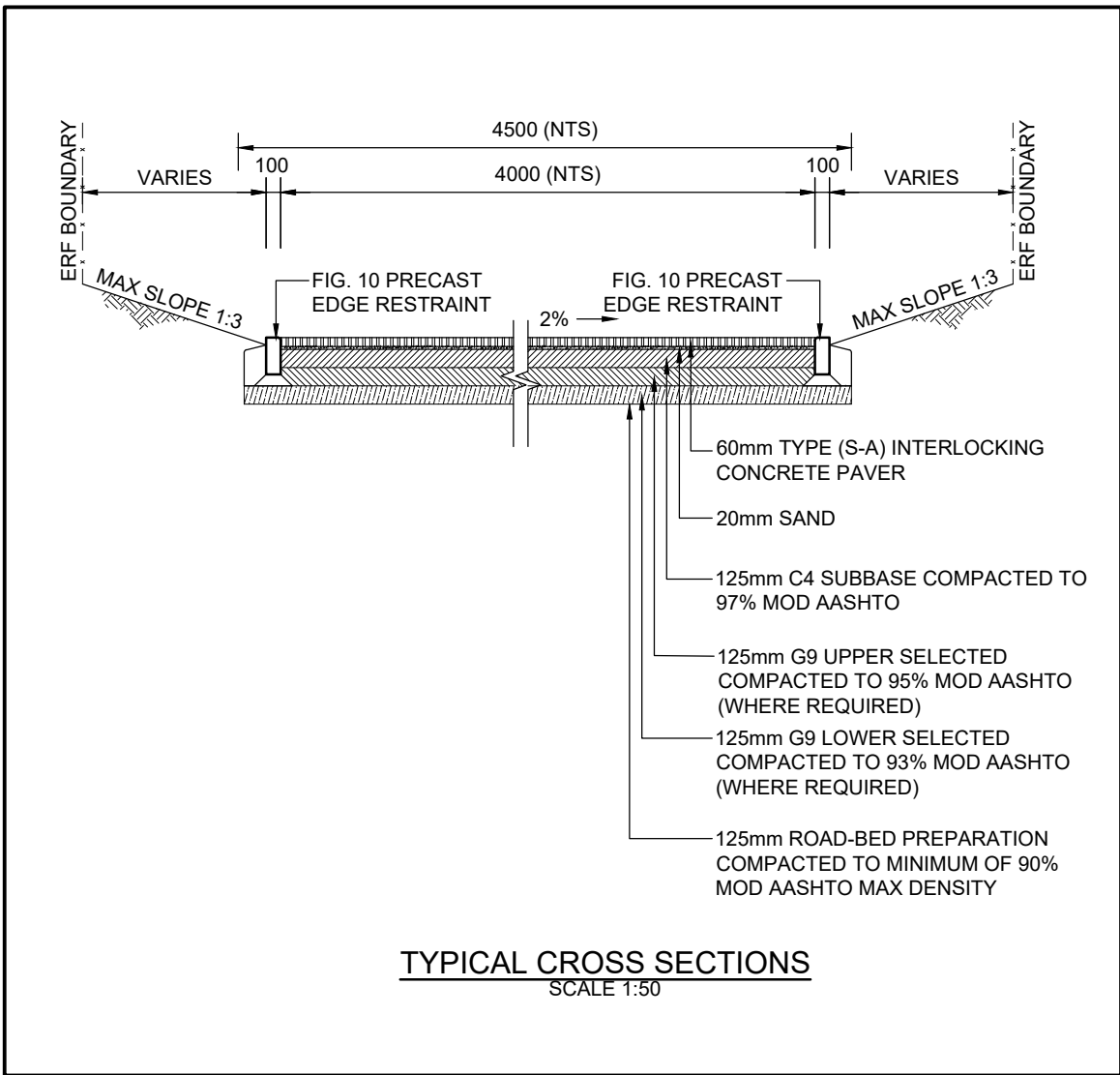
LONG SECTION: BONGANI VALLEY STREET

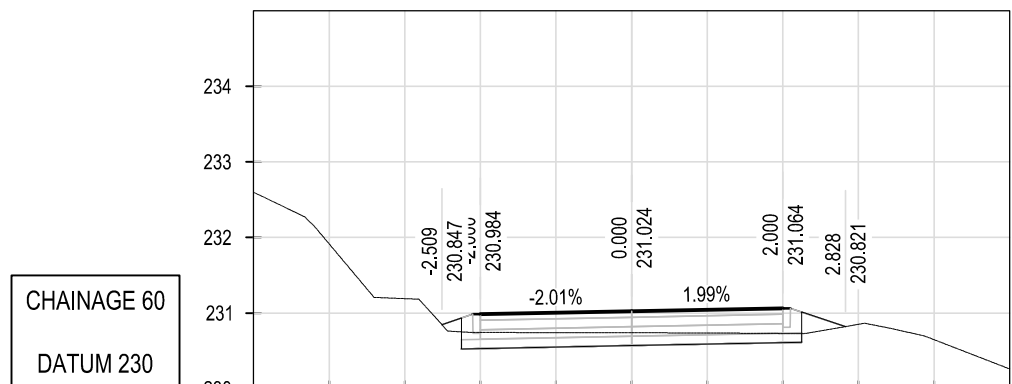
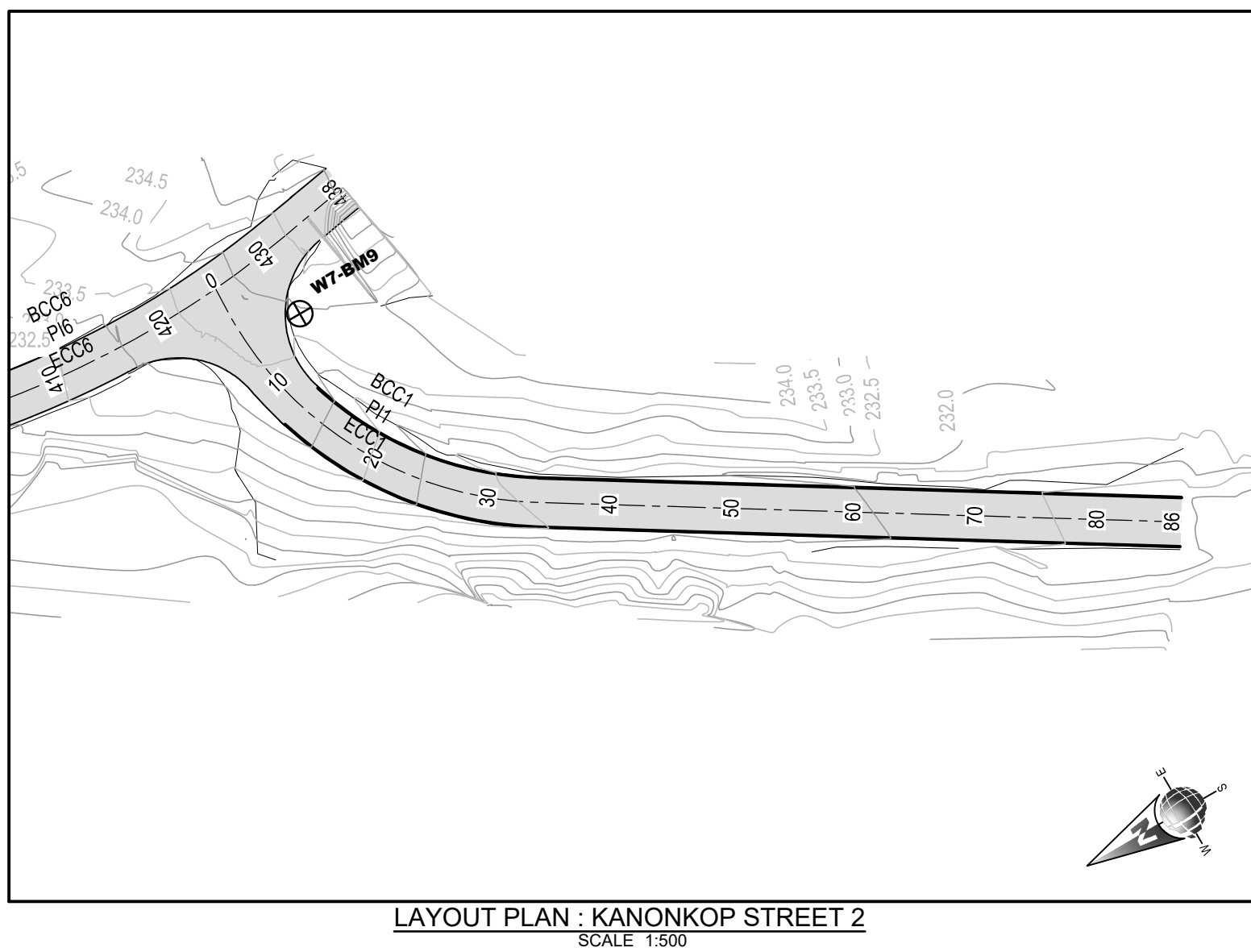


CROSS-SECTION : BONGANI VALLEY STREET

VERTICAL SCALE	1:100
HORIZONTAL SCALE	1:100

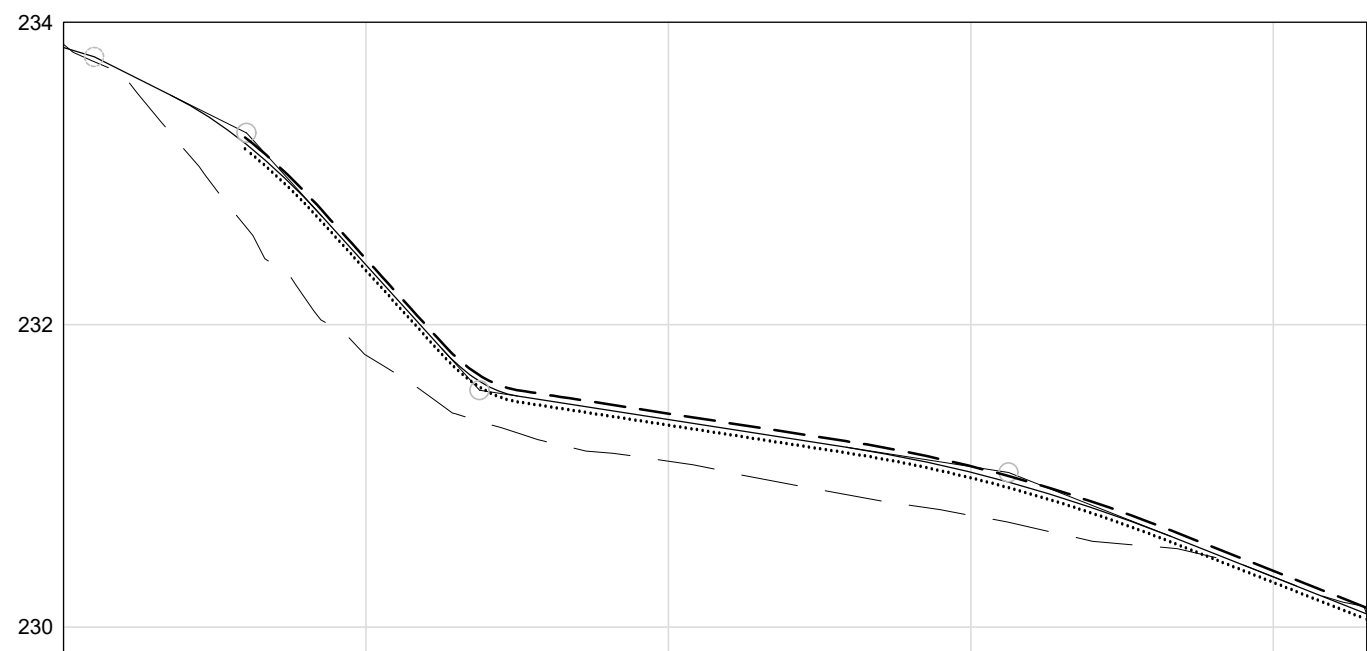
KNYSNA MUNICIPALITY CONTRACT TXX OF 2024/25 - SURFACING OF GRAVEL IN CONCORDIA (WARD 7) BONGANI VALLEY STREET CONCORDIA ROAD PLAN & LONG SECTION (CH470.000 TO CH556.080)			
SCALE	AS SHOWN	DATE	JULY 2025
DRAWING NUMBER	8040/001/RLS/355	SIZE	A1
		REVISION	1





BENCHMARKS/SURVEY CONTROL			
SYSTEM WGS84/LO23			
CODE	Y CO-ORD	X CO-ORD	ELEVATION
BP3	-9114,979	3767195,191	199,725
BP4	-9220,302	3767125,600	231,610
BP5	-9179,222	3766960,364	249,914
W7-BM1	-8689,420	3766809,202	240,582
W7-BM2	-8631,765	3766783,278	241,733
W7-BM3	-9055,929	3766829,278	245,289
W7-BM4	-9030,564	3767181,218	204,360
W7-BM5	-9158,067	3767363,733	198,183
W7-BM6	-9221,653	3767572,859	219,526
W7-BM7	-8937,542	3767303,009	237,014
W7-BM8	-8843,731	3767153,857	233,532
W7-BM9	-8658,523	3767479,477	233,904
W7-BM10	-8386,335	3767595,968	203,114
ALL BENCHMARKS ARE 12mm PEG IN CONCRETE WITH A NAMEPLATE			

DATUM 229.000

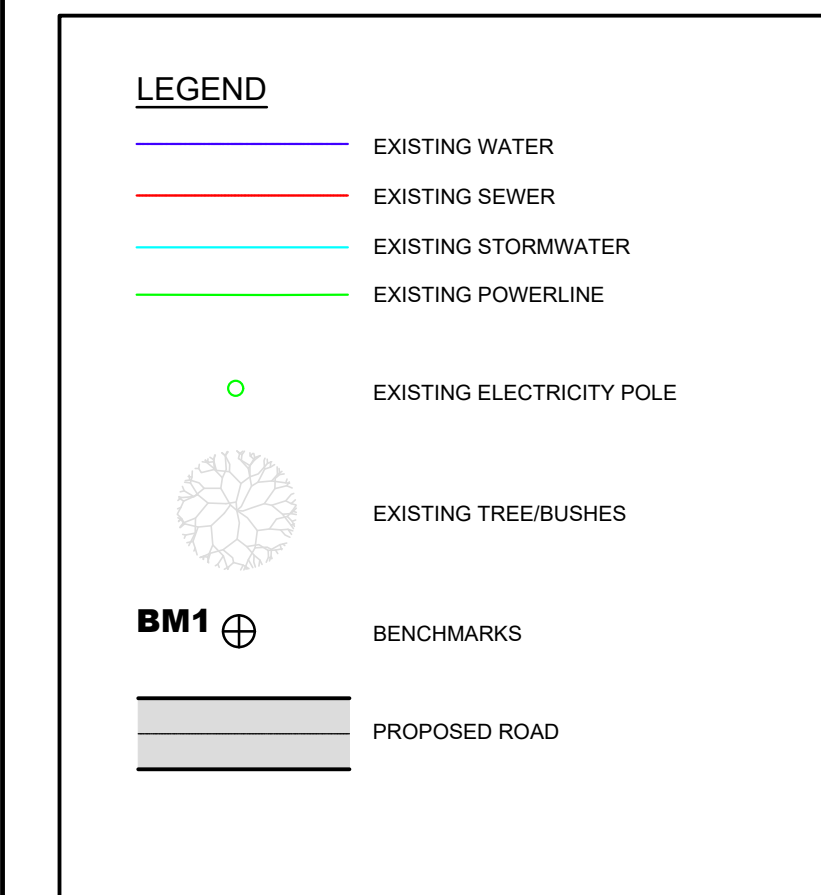
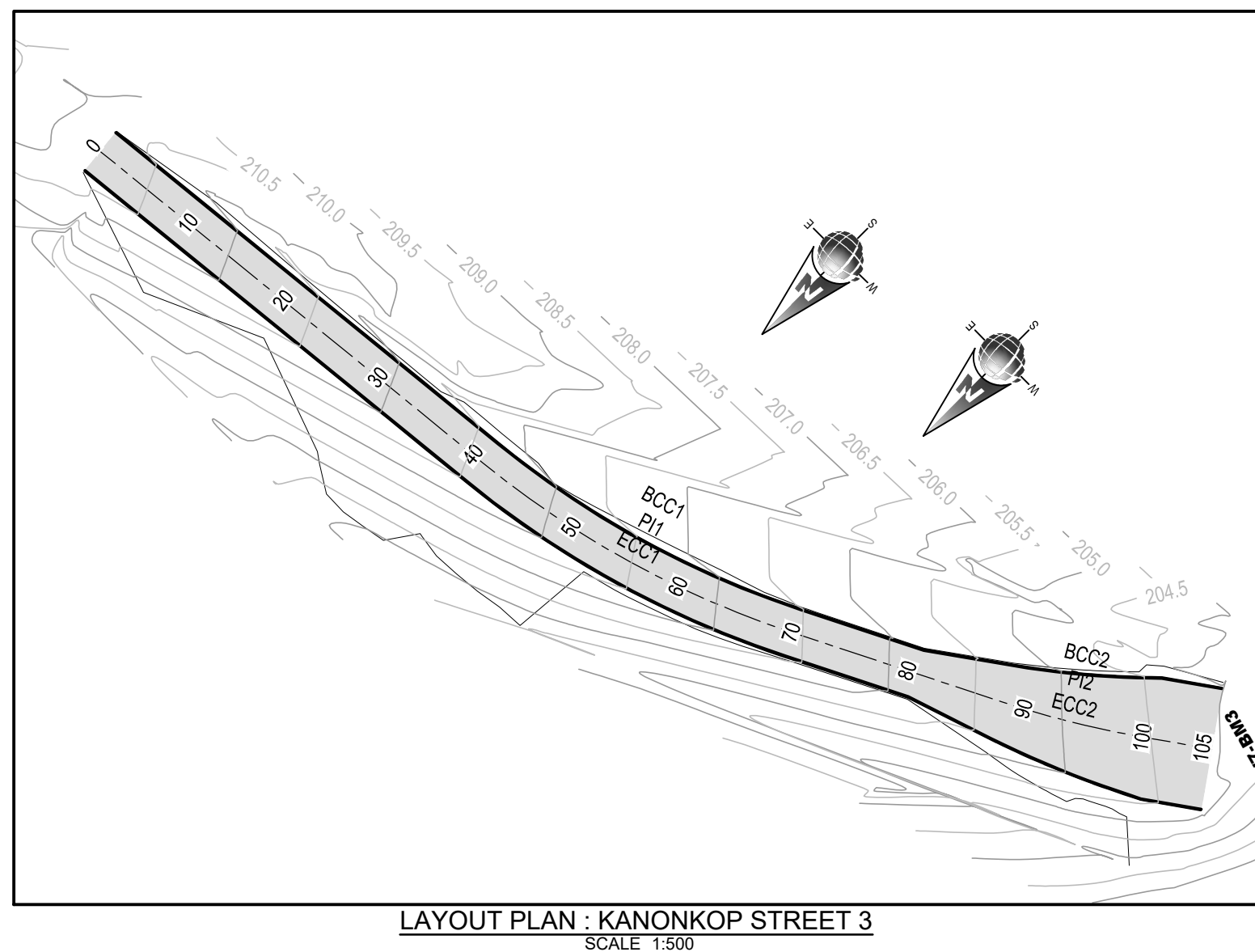


CHAINAGE																			0		10	20	30	40		50		60		70		80	86
NATURAL GROUND LEVELS																			233.893		232.994	231.798	231.284	231.697		230.909		230.739		230.551		230.333	
VERTICAL ALIGNMENT	ROAD LEVELS	LEFT EDGE	233.893	233.892	233.994	231.798	231.284	231.697		230.909		230.739		230.551		230.333																	
		CENTRE LINE	233.892	233.946	232.994	231.527	231.372	231.217	230.909	230.739	230.551	230.332																					
		RIGHT EDGE	233.893		232.994	231.798	231.284	231.697		230.909		230.739		230.551		230.333																	
	GRADES		-3.036%	-5.000%		-11.040%		-1.552%		-3.949%																							
	VERTICAL CURVES																																

LONG SECTION: KANONKOP STREET 2

CROSS-SECTION : KANONKOP STREET 2

SCALE AS SHOWN	DATE JULY 2025	
DRAWING NUMBER 8040/001/RLS/358	SIZE A1	REVISION 1



BENCHMARKS/SURVEY CONTROL			
SYSTEM WGS84/LO23			
CODE	Y CO-ORD	X CO-ORD	ELEVATION
BP3	-9114,979	3767195,191	199,725
BP4	-9220,302	3767125,600	231,610
BP5	-9179,222	3766960,364	249,914
W7-BM1	-8689,420	3766809,202	240,582
W7-BM2	-8831,765	3766783,278	241,733
W7-BM3	-9055,929	3766829,278	245,289
W7-BM4	-9030,964	3767181,218	204,360
W7-BM5	-9158,067	3767363,733	198,183
W7-BM6	-9221,653	3767572,859	219,526
W7-BM7	-8937,542	3767303,009	237,014
W7-BM8	-8843,731	3767153,857	233,532
W7-BM9	-8658,523	3767479,477	233,904
W7-BM10	-8386,335	3767595,968	203,114
ALL BENCHMARKS ARE 12mm PEG IN CONCRETE WITH A NAMEPLATE			

1		FOR TENDER	JUL
REV.	BY	DESCRIPTION	DATE

RCS/501-504	TYPICAL DETAILS
DRG. No.	REFERENCE DRAWING
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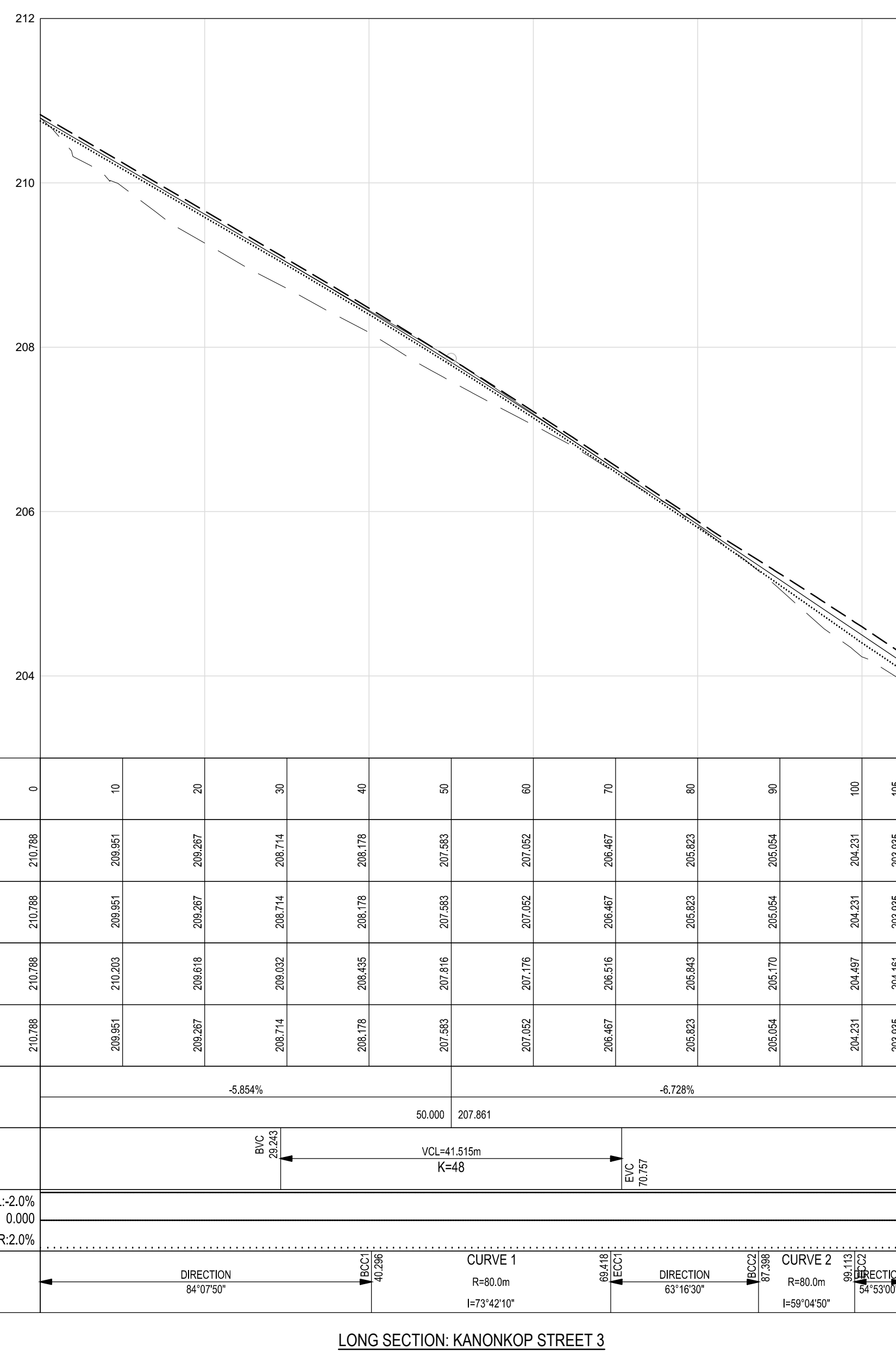


DRAWN	ZT	
CIVIL ENGINEER	JB	STRUCTURAL ENGINEER
INSTRUMENT ENGINEER		ELECTRICAL ENGINEER
MECHANICAL ENGINEER		PROCESS ENGINEER
PROJECT MANAGER	AE	DIVISIONAL MANAGER

**KNYSNA MUNICIPALITY
CONTRACT TXX OF 2024/25 - SURFACING OF
GRAVEL IN CONCORDIA (WARD 7)
KANONKOP STREET 3
CONCORDIA
ROAD PLAN & LONG SECTION (CH0.000 TO CH101.41)**

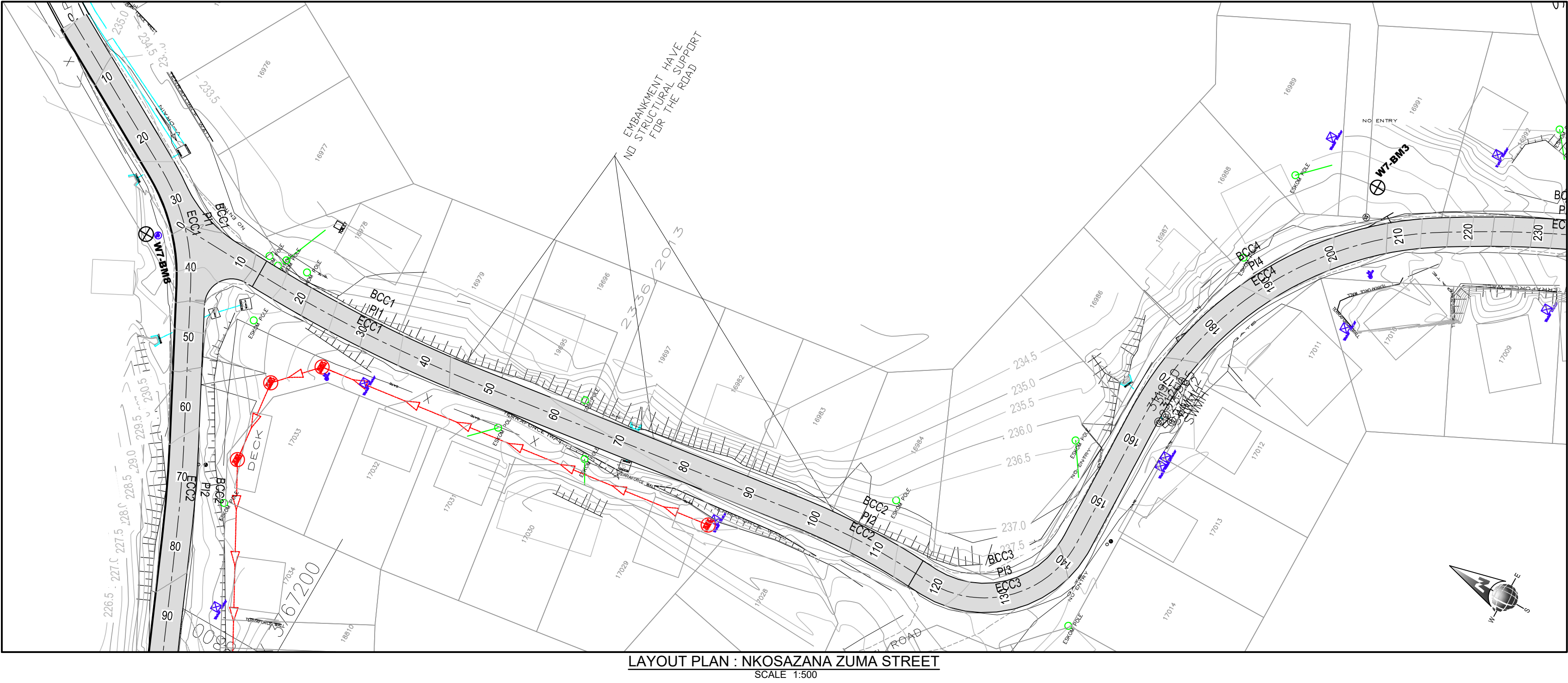
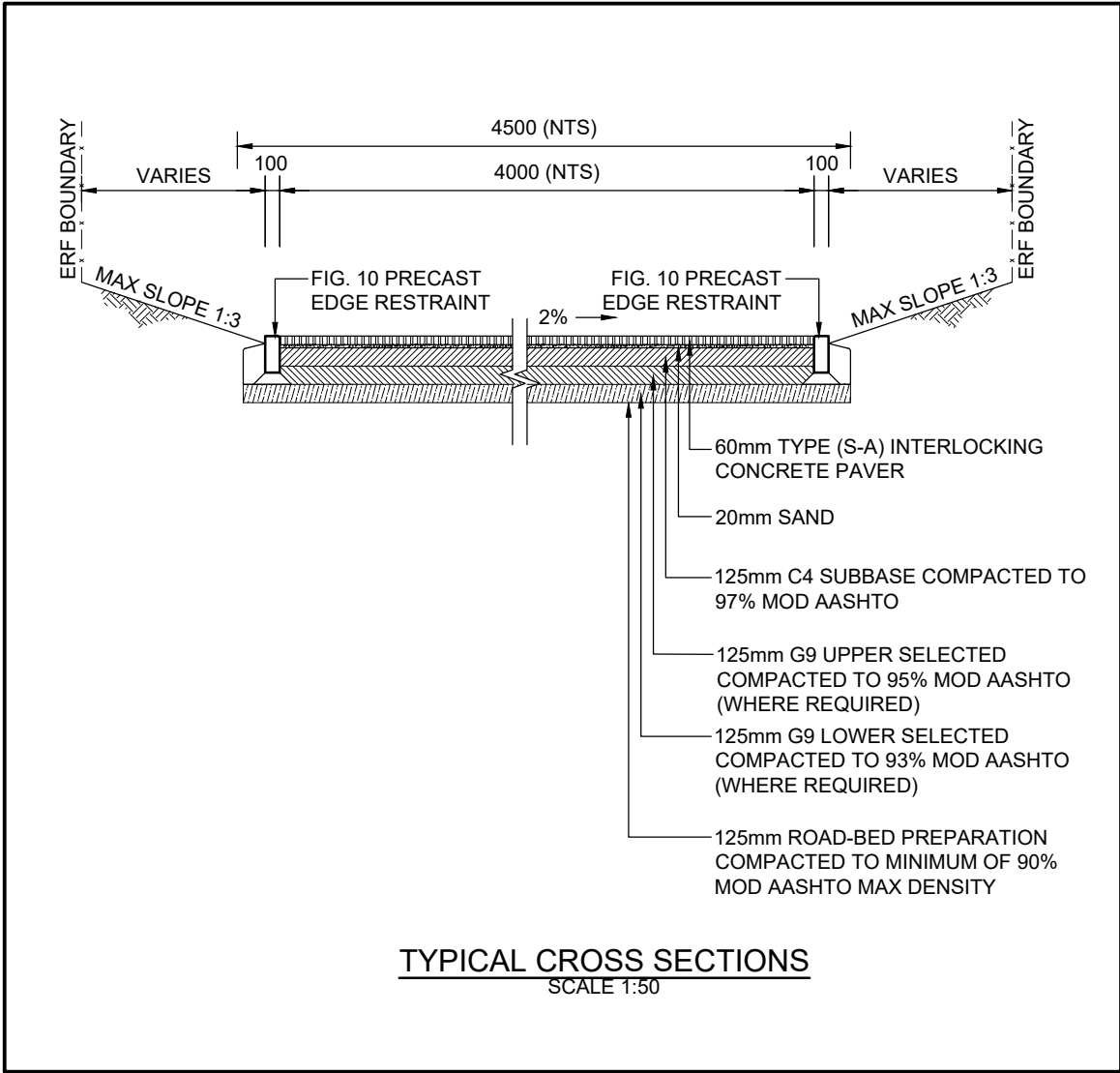
SCALE AS SHOWN	DATE JULY 2025	
DRAWING NUMBER 8040/001/RLS/359	SIZE A1	REVISION 1

SETTING OUT DATA - KANONKOP STREET 3				
NAME	CH	Y	X	DETAILS
START	0.000 40.296	-8 491.317 -8 451.232	3767563.832 3767567.951	L 40.296m
BCC1 PI1 ECC1	40.296 69.418	-8 451.232 -8 436.585 -8 423.574	3 767 567.951 3 767 569.457 3 767 576.078	R 80.000m DA 20°5'130" TL 14.724m AL 29.122m
START	69.418 87.398	-8 423.434 -8 407.375	3767576.078 3767584.164	L 17.980m
BCC2 PI2 ECC2	87.398 99.113	-8 407.375 -8 402.134 -8 397.334	3 767 584.164 3 767 586.803 3 767 590.178	R 80.000m DA 8°23'20" TL 5.868m AL 11.715m
END	99.113 105.000	-8 397.334 -8 392.518	3767590.178 3767593.565	L 5.887m



CROSS-SECTION : KANONKOP STREET 3

VERTICAL SCALE	1:100
HORIZONTAL SCALE	1:100

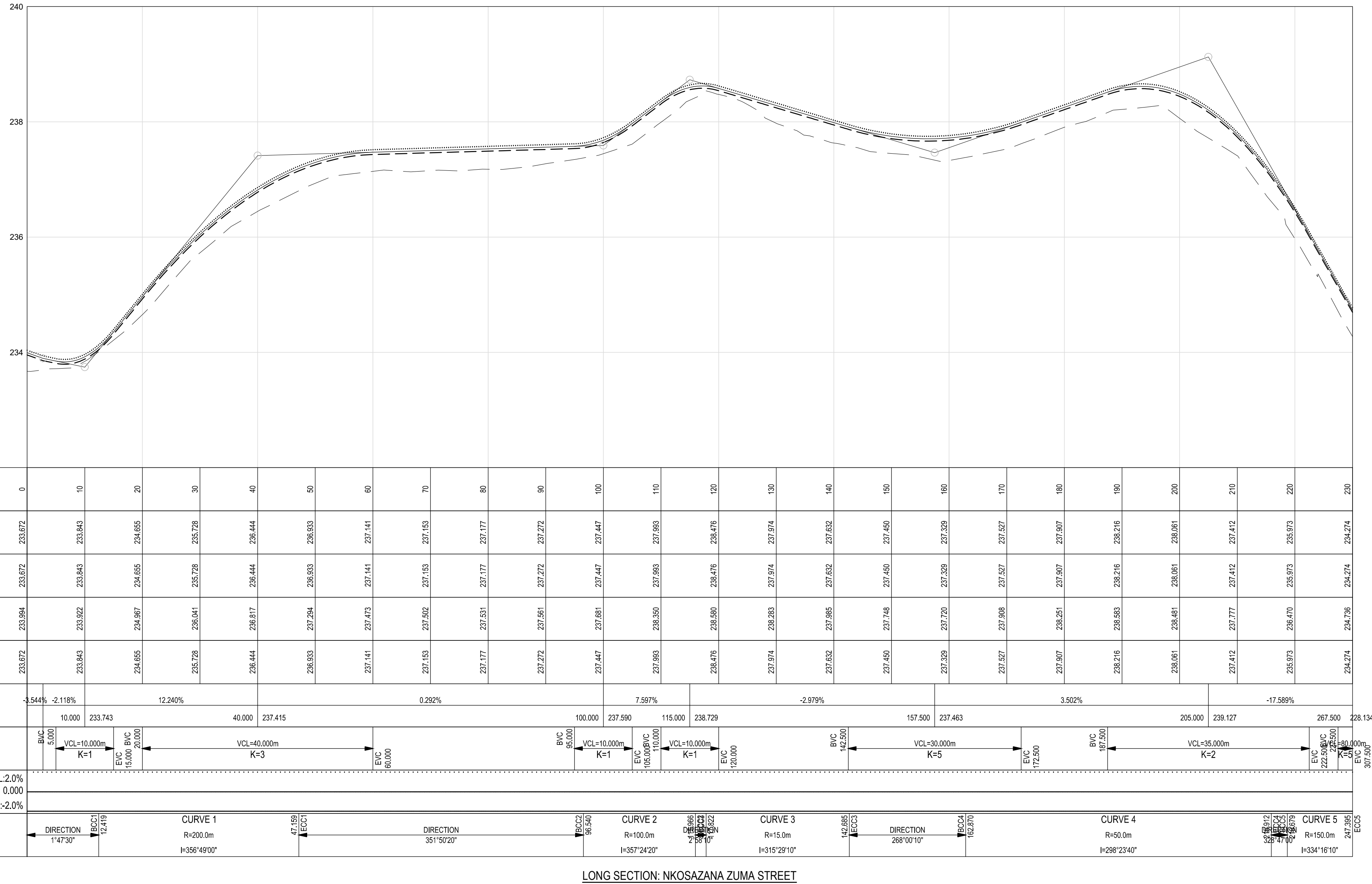


SETTING OUT DATA - NKOSAZANA ZUMA STREET

NAME	CH	Y	X	DETAILS
BCC1 PI1 ECC1	12.419 47.159	-8 846.907 -8 846.362 -8 848.834	3 767 170.661 3 767 188.066 3 767 205.303	R 200.000m DA 9°57'10" TL 17.413m AL 34.739m
BCC2 PI2 ECC2	96.540 115.966	-8 855.843 -8 857.226 -8 856.721	3 767 254.184 3 767 263.830 3 767 273.561	R 100.000m DA 11°07'50" TL 9.744m AL 19.427m
BCC3 PI3 ECC3	117.822 142.685	-8 856.625 -8 855.777 -8 872.128	3 767 275.414 3 767 291.752 3 767 291.182	R 15.000m DA 94°58'00" TL 16.360m AL 24.863m
BCC4 PI4 ECC4	162.870 215.912	-8 892.301 -8 921.607 -8 936.805	3 767 290.479 3 767 289.456 3 767 314.535	R 50.000m DA 60°46'50" TL 29.324m AL 53.042m
BCC5 PI5 ECC5	218.679 247.395	-8 938.239 -8 945.703 -8 950.687	3 767 316.901 3 767 329.218 3 767 342.730	R 150.000m DA 10°58'10" TL 14.402m AL 28.716m
BCC6 PI6 ECC6	255.417 279.346	-8 953.463 -8 957.704 -8 967.189	3 767 350.256 3 767 361.754 3 767 369.513	R 45.000m DA 30°28'00" TL 12.254m AL 23.929m
BCC7 PI7 ECC7	307.239 325.891	-8 988.779 -8 996.018 -9 002.033	3 767 387.175 3 767 393.097 3 767 400.258	R 100.000m DA 10°41'10" TL 9.353m AL 18.651m
BCC8 PI8 ECC8	331.563 353.772	-9 005.682 -9 012.831 -9 020.880	3 767 404.602 3 767 413.114 3 767 420.781	R 200.000m DA 6°21'40" TL 11.116m AL 22.209m
END	353.772 365.782	-9 020.880 -9 029.575	3 767 420.781 3 767 429.065	L 12.010m

SCALES:
Horizontal 1:500
Vertical 1:50

DATUM 232.000



LEGEND

- EXISTING WATER
- EXISTING SEWER
- EXISTING STORMWATER
- EXISTING POWERLINE
- EXISTING ELECTRICITY POLE
- EXISTING TREE/BUSHES
- BENCHMARKS
- PROPOSED ROAD

BENCHMARKS/SURVEY CONTROL

SYSTEM WGS84/LO23

CODE	Y CO-ORD	X CO-ORD	ELEVATION
BP3	-9114.979	3767195.191	199.725
BP4	-9220.302	3767125.600	231.610
BP5	-9179.222	3766960.364	249.914
W7-BM1	-8689.420	3766809.202	240.582
W7-BM2	-8831.765	3766783.278	241.733
W7-BM3	-9055.929	3766829.278	245.289
W7-BM4	-9030.564	3767181.218	204.360
W7-BM5	-9158.067	3767363.733	198.183
W7-BM6	-9221.653	3767572.859	219.526
W7-BM7	-8937.542	3767303.009	237.014
W7-BM8	-8843.731	3767153.857	233.532
W7-BM9	-8658.523	3767479.477	233.904
W7-BM10	-8386.335	3767595.968	203.114

ALL BENCHMARKS ARE 12mm PEG IN CONCRETE WITH A NAMEPLATE

RCS/501-504 TYPICAL DETAILS

RCS/360 ROAD CROSS SECTIONS

DRG No. REFERENCE DRAWING

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BOSCH PROJECTS
INNOVATIVE PEOPLE . EXCEPTIONAL RESULTS

23A FLANDERS DRIVE
MOUNT EDGECOMBE
DURBAN
SOUTH AFRICA, 4302

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FAX: +27 (0)31 535 6010
e-mail: mail@boschprojects.co.za
website: www.boschholdings.co.za



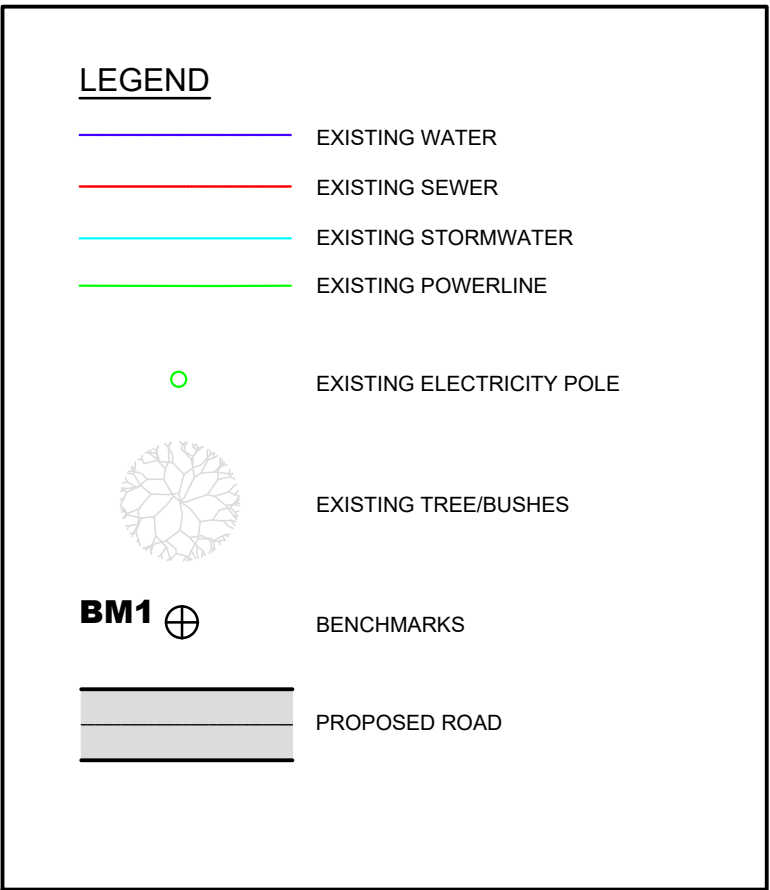
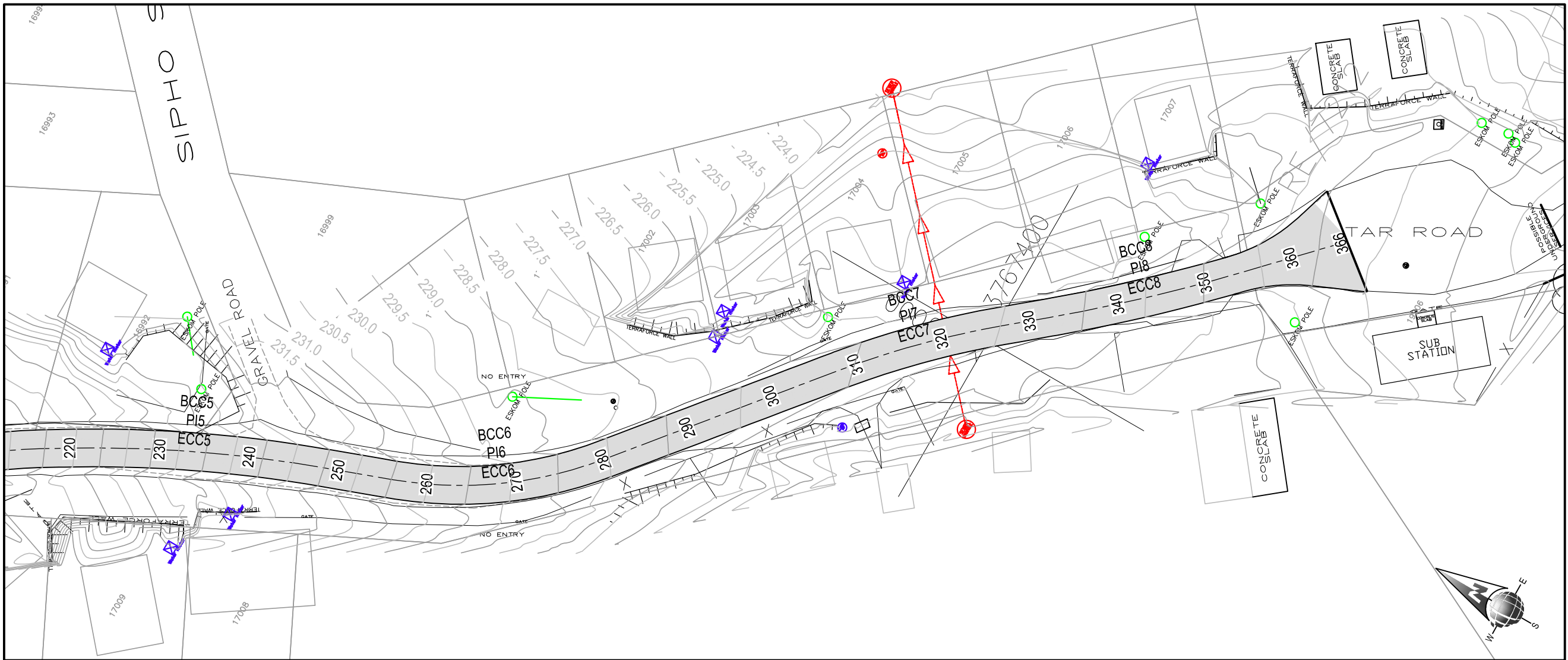
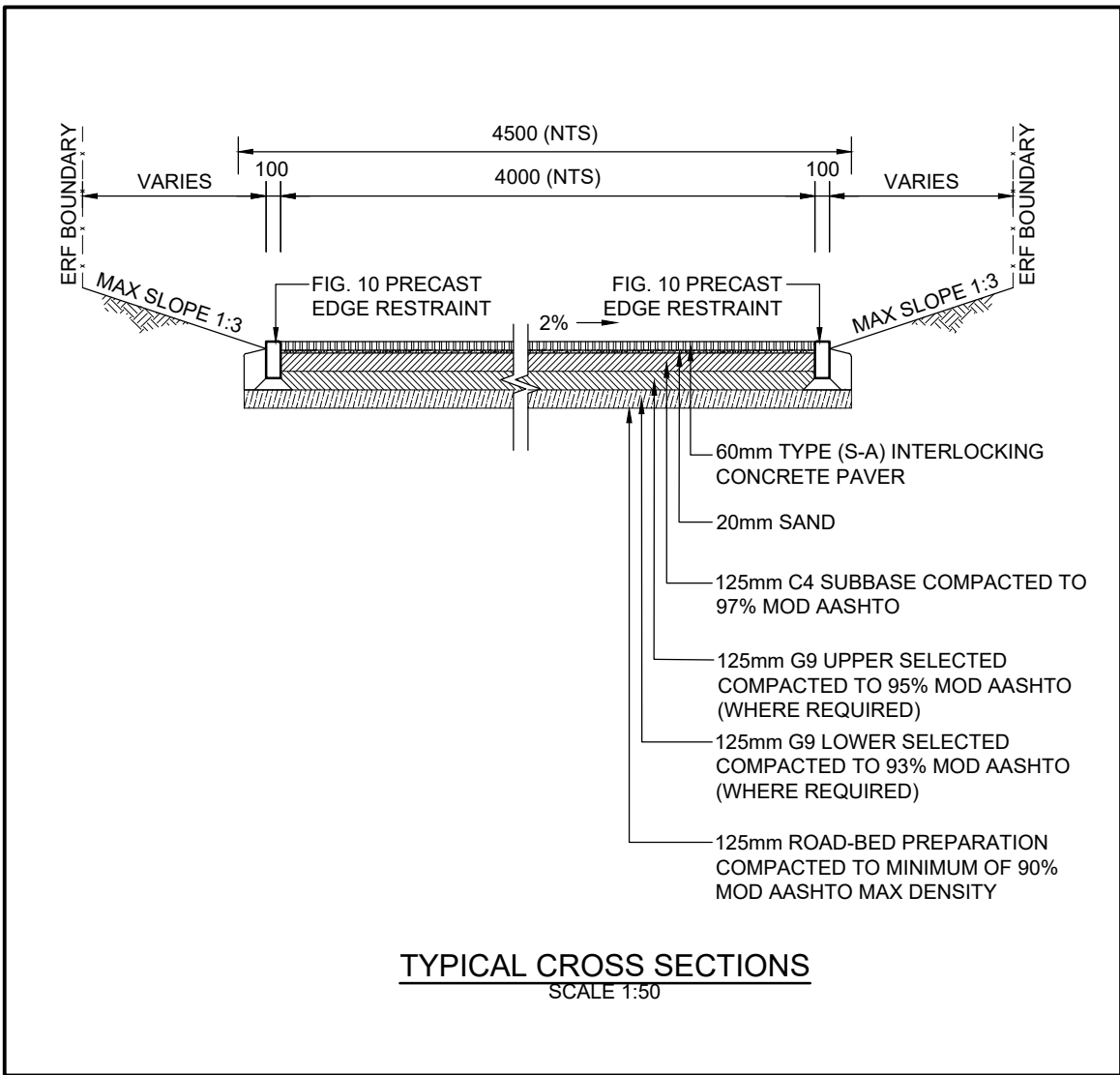
DRAWN	ZT
CIVIL ENGINEER	JB
INSTRUMENT ENGINEER	JB
MECHANICAL ENGINEER	JB
PROJECT MANAGER	AE
	AN

KNYSNA MUNICIPALITY
CONTRACT TXX OF 2024/25 - SURFACING OF
GRAVEL IN CONCORDIA (WARD 7)

NKOSAZANA ZUMA STREET
CONCORDIA

ROAD PLAN & LONG SECTION (CH0.000 TO CH230.000)

SCALE	AS SHOWN	DATE	JULY 2025
DRAWING NUMBER	8040/001/RLS/360	SIZE	A1
		REVISION	1

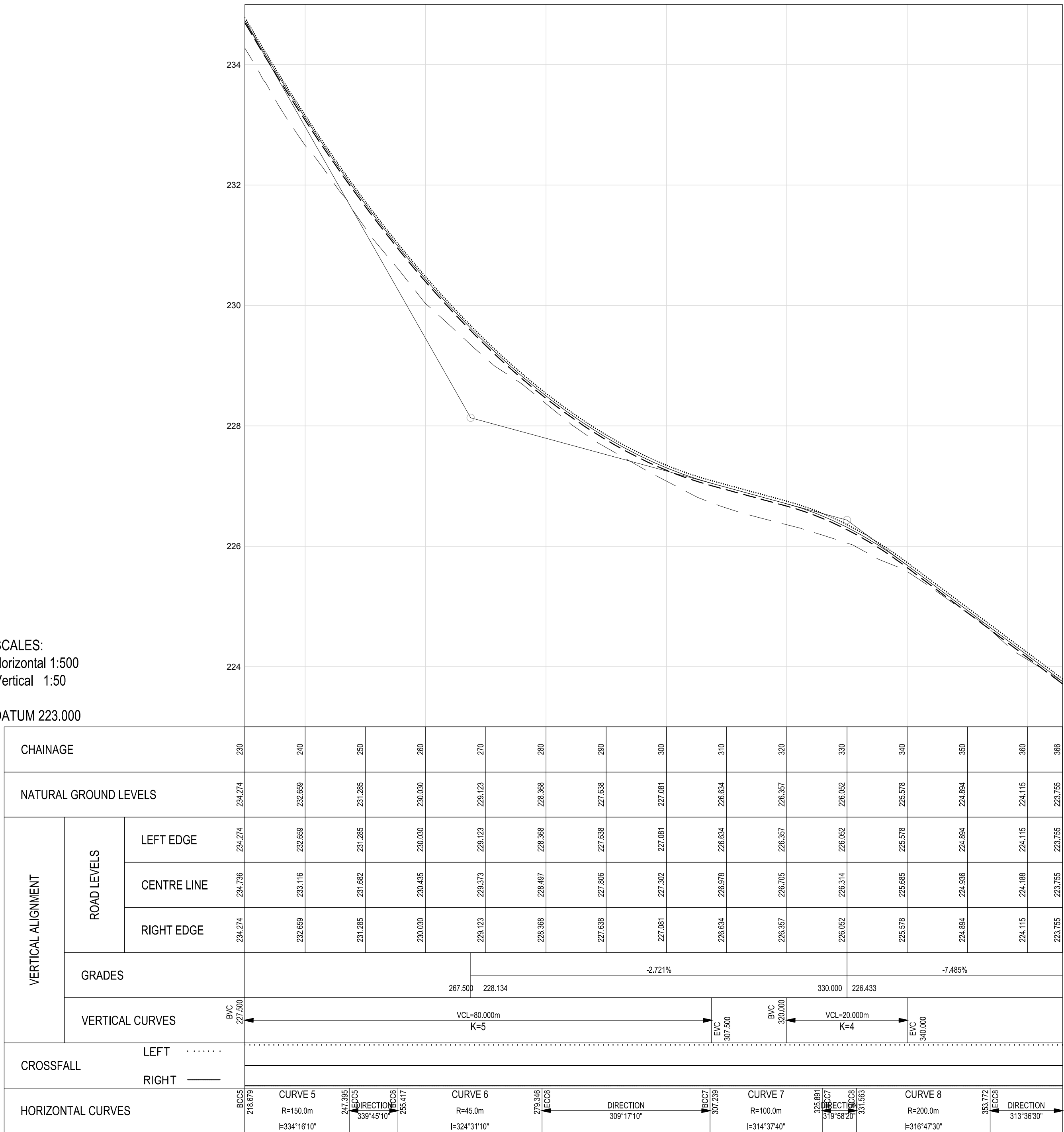


BENCHMARKS/SURVEY CONTROL			
SYSTEM WGS84/LO23			
CODE	Y CO-ORD	X CO-ORD	ELEVATION
BP3	-9114,979	3767195,191	199,725
BP4	-9220,302	3767125,600	231,610
BP5	-9179,222	3766960,364	249,914
W7-BM1	-8689,420	3766809,202	240,582
W7-BM2	-8831,765	3766783,278	241,733
W7-BM3	-9055,929	3766829,278	245,289
W7-BM4	-9030,564	3767181,218	204,360
W7-BM5	-9158,067	3767363,733	198,183
W7-BM6	-9221,653	3767572,859	219,526
W7-BM7	-8937,542	3767303,009	237,014
W7-BM8	-8843,731	3767153,857	233,532
W7-BM9	-8658,523	3767479,477	233,904
W7-BM10	-8386,335	3767595,968	203,114
ALL BENCHMARKS ARE 12mm PEG IN CONCRETE WITH A NAMEPLATE			

SETTING OUT DATA - NKOSAZANA ZUMA STREET				
NAME	CH	Y	X	DETAILS
BCC1 PI1 ECC1	12.419 47.159	-8 846.907 -8 846.362 -8 848.834	3 767 170.661 3 767 188.066 3 767 205.303	R 200.000m DA 9°57'10" TL 17.413m AL 34.739m
BCC2 PI2 ECC2	96.540 115.966	-8 855.843 -8 857.226 -8 856.721	3 767 254.184 3 767 263.830 3 767 273.561	R 100.000m DA 11°07'50" TL 9.744m AL 19.427m
BCC3 PI3 ECC3	117.822 142.685	-8 856.625 -8 855.777 -8 872.128	3 767 275.414 3 767 291.752 3 767 291.182	R 15.000m DA 94°58'00" TL 16.360m AL 24.863m
BCC4 PI4 ECC4	162.870 215.912	-8 892.301 -8 921.607 -8 936.805	3 767 290.479 3 767 289.456 3 767 314.535	R 50.000m DA 60°46'50" TL 28.324m AL 53.042m
BCC5 PI5 ECC5	218.679 247.395	-8 938.239 -8 945.703 -8 950.687	3 767 316.901 3 767 329.218 3 767 342.730	R 150.000m DA 10°58'10" TL 14.402m AL 28.718m
BCC6 PI6 ECC6	255.417 279.346	-8 953.463 -8 957.704 -8 967.189	3 767 350.256 3 767 361.754 3 767 369.513	R 45.000m DA 30°28'00" TL 12.254m AL 23.929m
BCC7 PI7 ECC7	307.239 325.891	-8 988.779 -8 996.018 -9 002.033	3 767 387.175 3 767 393.097 3 767 400.258	R 100.000m DA 10°41'10" TL 9.353m AL 18.651m
BCC8 PI8 ECC8	331.563 353.772	-9 005.682 -9 012.831 -9 020.880	3 767 404.602 3 767 413.114 3 767 420.781	R 200.000m DA 6°21'40" TL 11.116m AL 22.209m
END	353.772 365.782	-9 020.880 -9 029.575	3767420.781 3767429.065	L 12.010m

SCALES:
Horizontal 1:500
Vertical 1:50

DATUM 223.000



DRAWN	ZT	
CIVIL ENGINEER	JB	STRUCTURAL ENGINEER
INSTRUMENT ENGINEER		ELECTRICAL ENGINEER
MECHANICAL ENGINEER		PROCESS ENGINEER
PROJECT MANAGER	AE	DIVISIONAL MANAGER AN

KNYSNA MUNICIPALITY CONTRACT TXX OF 2024/25 - SURFACING OF GRAVEL IN CONCORDIA (WARD 7) NKOSAZANA ZUMA STREET CONCORDIA ROAD PLAN & LONG SECTION (CH230.000 TO CH365.782)		
SCALE	AS SHOWN	DATE JULY 2025
DRAWING NUMBER	8040/001/RLS/361	SIZE A1 REVISION 1