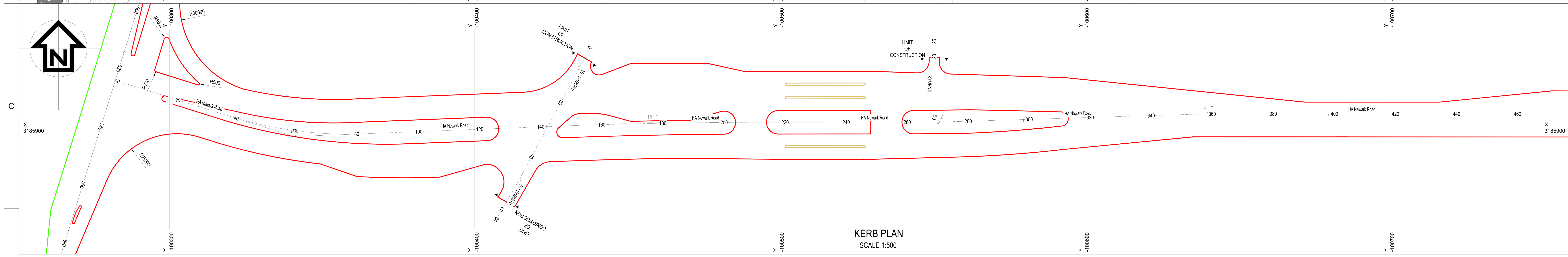


PLAN
SCALE 1:500



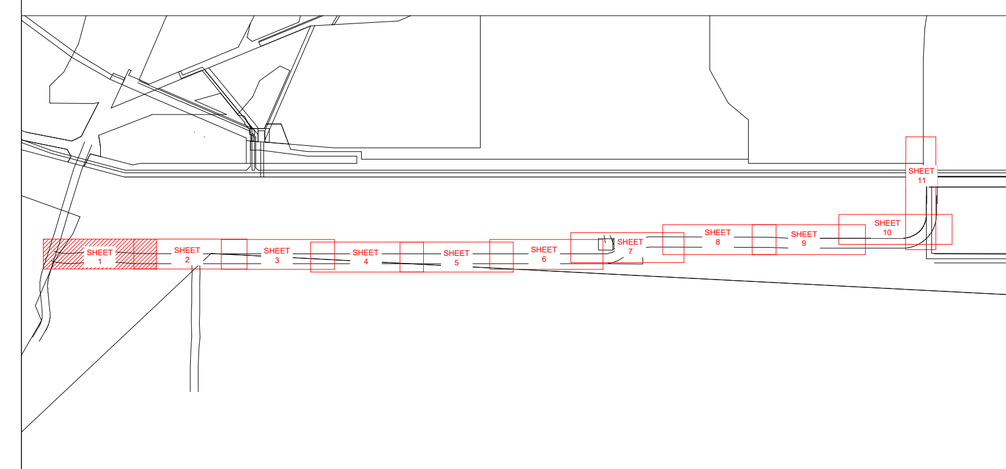
KERB PLAN
SCALE 1:500

REFERENCE DRAWINGS :

1006614-DRG-08-NW-CC-U001	SETTING OUT PLAN : NEWARK ROAD SHEET 1 OF 9
1006614-DRG-09-NW-CC-I001	SETTING OUT PLAN: NEWARK/ URANIA ROAD INTERSECTION
1006614-DRG-09-NW-CC-I002	SETTING OUT PLAN: NEWARK / SUB-STATION, SANTHOM AND PARKING INTERSECTIONS
1006614-DRG-12-CC-U001	JOINT LAYOUT PLAN 1
1006614-DRG-12-CC-U010	PAVEMENT LAYERWORKS LAYOUT 1
1006614-DRG-13-NW-CC-U001	NEWARK ROAD SIGNAGE LAYOUT PLAN
1006614-DRG-00-NW-CC-D001	RAIL CROSSING DETAIL
1006614-DRG-02-NW-CC-D001	TYPICAL FENCING & GATE DETAILS 1
1006614-DRG-05-NW-CC-D001	BUS BAY & SHELTER DETAILS
1006614-DRG-08-NW-CC-D001	TYPICAL ROAD SECTIONS 1
1006614-DRG-08-NW-CC-D002	TYPICAL ROAD SECTIONS 2
1006614-DRG-08-NW-CC-D003	KERBING DETAILS 1
1006614-DRG-08-NW-CC-D004	KERBING DETAILS 2
1006614-DRG-08-NW-CC-D005	SIDEWALK DETAILS
1006614-DRG-08-NW-CC-D006	GUARDRAIL DETAILS: ARMCO
1006614-DRG-08-NW-CC-D007	BALUSTRADE DETAILS
1006614-DRG-12-NW-CC-D001	PAVEMENT LAYERWORKS DETAILS
1006614-DRG-12-NW-CC-D002	PAVEMENT JOINT DETAILS
1006614-DRG-13-NW-CC-D001	ROAD MARKINGS SPECIFICATIONS
1006614-DRG-13-NW-CC-D002	ROAD SIGNAGE SPECIFICATIONS
1006614-DRG-14-NW-CC-D001	ROAD DRAINAGE : KERB INLET DETAILS
1006614-DRG-14-NW-CC-D002	ROAD DRAINAGE: GRID INLET DETAILS
1006614-DRG-14-NW-CC-D003	ROAD DRAINAGE: JUNCTION BOX DETAILS 1
1006614-DRG-14-NW-CC-D004	ROAD DRAINAGE: JUNCTION BOX DETAILS 2
1006614-DRG-14-NW-CC-D005	ROAD DRAINAGE: PIPE TRENCHING DETAILS
1006614-DRG-14-NW-CC-D006	ROAD DRAINAGE: CHANNEL DETAILS
1006614-DRG-14-NW-CC-D007	ROAD DRAINAGE: PIPE CULVERT INLET / OUTLET DETAILS
1006614-DRG-14-NW-CC-D008	ROAD DRAINAGE: SILT TRAP DETAILS - TYPE 1
1006614-DRG-14-NW-CC-D009	ROAD DRAINAGE: SILT TRAP DETAILS - TYPE 2
1006614-DRG-14-NW-CC-D010	ROAD DRAINAGE: DRAINAGE CHUTE DETAILS
1006614-DRG-14-NW-CC-D011	ROAD DRAINAGE: SUBSOIL DRAINAGE DETAILS

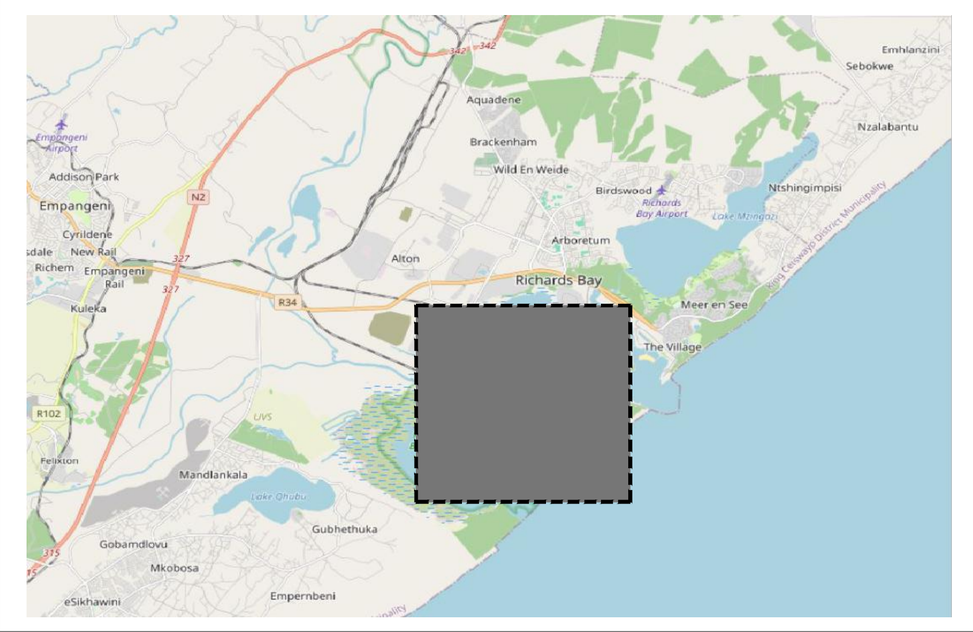
NOTES

1. DO NOT SCALE DRAWING - ONLY DIMENSIONS SHOWN TO BE USED.
2. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS AND LEVELS ON THE SITE AND NOTIFY THE NEC SUPERVISOR OF ANY VARIATIONS BEFORE CONSTRUCTION.
3. ALL LEVELS ARE IN METERS TO MEAN SEA LEVEL.
4. DRAWINGS MUST BE READ IN CONJUNCTION WITH PROJECT SPECIFICATIONS AND GENERAL NOTES DRAWINGS.
5. IF APPLICABLE, DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS AND ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER.



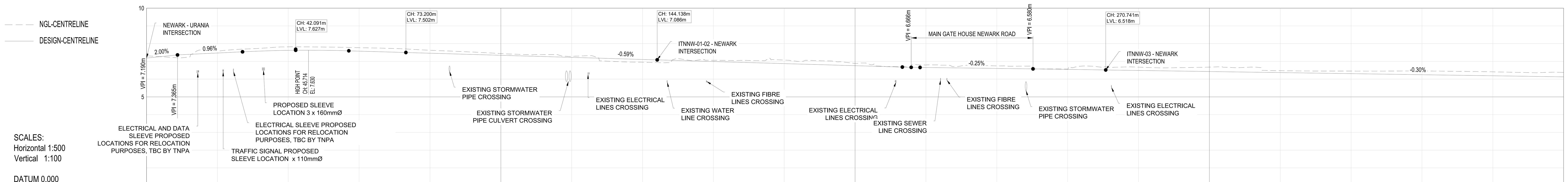
KEYPLAN

LOCALITY



LEGEND

SYMBOL	DESCRIPTION
	PROPOSED ROAD
	EXISTING ROAD
	PROPOSED SIDEWALK/MEDIAN
	PROPOSED GUARD RAIL
	PROPOSED HAND RAIL
	EXISTING FENCE
	PROPOSED RELOCATED FENCE
	EXISTING ROADWAY
	PROPOSED VERTICAL RETAINING WALL
X%	ROAD SLOPE
FLRXXX	FINAL LEVEL ROAD SETTING OUT POINT
TYPE 1 CHANNEL	STORMWATER CHANNEL TYPE 1
TYPE 2 CHANNEL	STORMWATER CHANNEL TYPE 2
TYPE 3 CHANNEL	STORMWATER CHANNEL TYPE 3
TYPE 4 CHANNEL	STORMWATER CHANNEL TYPE 4
TYPE 5 CHANNEL	STORMWATER CHANNEL TYPE 5
	STORMWATER JUNCTION BOX
	STORMWATER GRID INLET
	STORMWATER KERB INLET
TYPE 1A TRAP	STORMWATER TRAP TYPE 1A
TYPE 1B TRAP	STORMWATER TRAP TYPE 1B
TYPE 2A TRAP	STORMWATER TRAP TYPE 2A
	STORMWATER CHUTE
	KERB TYPE 1
	KERB TYPE 2
	KERB TYPE 3



SCALES:
Horizontal 1:500
Vertical 1:100

DATUM 0.000

DISTANCE (m)	CUT / FILL	ROAD LEFT	ROAD CENTRELINE	ROAD RIGHT	C/L GROUND LEVEL
0.000	-0.126		7.190		7.317
20.000	-0.099		7.473		7.572
27.091	-0.149		7.541		
40.000	-0.198	7.402	7.622	7.410	7.820
57.091	-0.189	7.386	7.597	7.407	
60.000	-0.194	7.367	7.580	7.389	7.774
80.000	-0.165	7.235	7.463	7.250	7.628
100.000	-0.096	7.254	7.345	7.116	7.441
120.000	-0.056	7.411	7.228	6.999	7.284
140.000	0.156	7.339	7.111	6.882	6.955
160.000	-0.069	7.302	6.993	6.765	7.063
180.000	-0.197	7.266	6.876	6.648	7.074
200.000	-0.133	7.128	6.759	6.524	6.892
213.334	-0.046	7.011	6.681	6.442	
218.334	-0.146	6.990	6.660	6.421	
220.000	-0.142	6.986	6.656	6.416	6.797
240.000	-0.142	6.936	6.606	6.366	6.747
260.000	-0.017	6.874	6.551	6.316	6.568
280.000	-0.185	6.796	6.491	6.261	6.676
300.000	-0.248	6.711	6.431	6.212	6.679
320.000	-0.105	6.618	6.371	6.179	6.475
340.000	-0.144	6.504	6.311	6.145	6.455
360.000	-0.207	6.392	6.251	6.104	6.457
380.000	-0.223	6.289	6.191	6.043	6.414
400.000	-0.248	6.205	6.131	5.983	6.378

VERTICAL PROFILE: 1:50.119 1.995% | 1:104.167 0.960% | BVC 27.091 – VCL=30.000m K=19.4 – EVC 57.091 | -1:170.527 -0.586% | BVC 213.334 – VCL=5.000m K=14.9 – EVC 218.334 | -1:400.000 -0.250% | -1:333.333 -0.300%

HORIZONTAL ALIGNMENT: STRAIGHT 287° 24' 20" | BC 38.9 | R=130m | EC 83.5 | STRAIGHT 267° 44' 40" | BC 144.0 | R=1800m | EC 213.1 | STRAIGHT 269° 56' 50" | BC 264.6 | R=500m | EC 279.5 | STRAIGHT 268° 14' 20" | BC 352.8 | R=500m | EC 368.4 | STRAIGHT 270° 01' 20"

SUPER-ELEVATION (LEFT / RIGHT): NEWARK-URANIA INTERSECTION | 40.000 -2.00% | 90.000 -2.00% | 2.00% 123.218 -2.00% | 2.00% 400.000 -2.00%

SW CHANNEL
CHANNEL DETAILS: TYPE 1 | TYPE 1 | TYPE 5
HYDRAULICS (FLOW Q(l/s)/CAPACITY Q(l/s), V(m/s)): 46 (75) 1.245 | 16 (59) 0.976 | 92 (536) 1.374
DISTANCE (m): 0.000, 8.734, 20.000, 27.091, 38.889, 40.000, 42.091, 45.714, 57.091, 60.000, 61.192, 73.200, 80.000, 83.496, 100.000, 120.000, 140.000, 143.975, 160.000, 178.549, 180.000, 200.000, 213.123, 213.334, 215.834, 218.334, 220.000, 240.000, 250.216, 260.000, 264.572, 272.027, 279.481, 280.000, 300.000, 320.000, 321.000, 340.000, 352.850, 360.000, 360.632, 368.414, 380.000, 400.000

HA Newark Road CH0.000 - CH400.000

SETTING OUT DATA-ITNNW-03

NAME	CH	X	Y	LENGTH (m)
START	0.000 24.943	3185897.780 3185872.837	-100550.576 -100550.576	24.943
END	0.000 24.943	3185897.780 3185872.837	-100550.576 -100550.576	24.943

SETTING OUT DATA-ITNNW-01 - 02

NAME	CH	X	Y	LENGTH (m)
START	0.000 8.532	3185872.432 3185880.041	-100438.199 -100434.338	8.532
END	50.121 63.720	3185916.658 3185928.446	-100414.621 -100407.840	13.599

SETTING OUT DATA-HA Newark Road

NAME	CH	X	Y	DETAILS
START	0.000 38.889	3185884.161 3185895.794	-100282.287 -100319.395	0.000 38.889
BCC PI ECC	38.889 83.496	3185895.794 3185902.532 3185901.646	-100319.395 -100340.888 -100363.396	R 130.000m DA 19°39'40" TL 22.525m AL 44.607m
PI20	38.889 83.496	3185895.794 3185902.532 3185901.646	-100319.395 -100340.888 -100363.396	R 130.000m DA 19°39'40" TL 22.525m AL 44.607m
BCC1 PI1 ECC1	143.975 213.123	3185899.267 3185897.907 3185897.875	-100423.828 -100458.380 -100492.958	R 1800.000m DA 2°12'00" TL 34.579m AL 69.149m
BCC2 PI2 ECC2	264.572 279.481	3185897.827 3185897.820 3185897.591	-100544.407 -100551.862 -100559.314	R 500.000m DA 1°42'30" TL 7.455m AL 14.909m
BCC3 PI3 ECC3	352.850 368.414	3185895.335 3185895.096 3185895.099	-100632.647 -100640.426 -100648.209	R 500.000m DA 1°47'00" TL 7.783m AL 15.564m
PI23	2489.669 2543.864	3185895.907 3185895.918 3185881.597	-102769.464 -102797.245 -102821.050	R 100.000m DA 31°03'00" TL 27.781m AL 54.194m
PI24	2632.669 2678.319	3185835.821 3185823.756 3185823.801	-102897.147 -102917.202 -102940.606	R 84.000m DA 31°08'20" TL 23.404m AL 45.650m
PI25	3280.749 3289.788	3185823.767 3185823.767 3185823.971	-103543.037 -103547.557 -103552.072	R 200.000m DA 2°35'20" TL 4.520m AL 9.038m
PI26	3336.087 3345.125	3185826.060 3185826.264 3185826.264	-103598.324 -103602.840 -103607.359	R 200.000m DA 2°35'20" TL 4.520m AL 9.038m
BCC32 PI32 ECC32	3842.916 4031.375	3185826.236 3185826.229 3185706.266	-104105.150 -104225.114 -104225.144	R 120.000m DA 89°59'00" TL 119.963m AL 188.459m
END	4181.381 4237.527	3185556.259 3185500.114	-104225.181 -104225.195	4181.381 56.146

NO.	DESCRIPTION	BY	CHKD	APPD	DATE
E2	FOR TENDER	RR	HVDM	HVDM	18 07 25
E1	FOR TENDER	RR	HVDM	HVDM	26 06 25

REVISIONS

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ZUTARI
IMPACT. ENGINEERED.

CONTRACTOR / CONSULTANT

TITLE	NAME	SIGN	DATE
DRAWN	W. BOTES		18 07 25
CHECKED	H. VAN DER MERWE		18 07 25
DESIGNED	R. RANGE		18 07 25
CHECKED	H. VAN DER MERWE		18 07 25

PR.ENG. / PR.TECH./PR. ARCH

NAME	H. VAN DER MERWE	DATE
SIGNATURE		18 07 25
REG. NUMBER	201270120	
TITLE	Pr. TechENG	

TRANSNET NATIONAL PORTS AUTHORITY

TITLE	NAME	SIGN	DATE
DRAWN			
CHECKED			
DESIGNED			
CHECKED			

PR.ENG. / PR.TECH./PR. ARCH

NAME		DATE
SIGNATURE		
REG. NUMBER		
SCALE	1:500	

TRANSNET

Transnet National Ports Authority
TRANSNET SOC Ltd : REG No. 1990/000900/30
NEWARK ROAD
RICHARDS BAY TEL: 035 788 0067
PO BOX 181, RICHARDS BAY 3900, SOUTH AFIRCA

PROJECT / AREA / ASSET / SUBJECT/DRAWING TITLE

PORT OF RICHARDS BAY

PORT ROADS REHABILITATION & UPGRADE
(REPAIRS TO PORT ROADS)
NEWARK ROAD LONGSECTION PLAN
CH0 - CH400 SHEET 1 OF 11

PAPER SIZE	TRANSNET DRW. NO.	REV.
A0	TBC	E2
	PROJECT DRG. NO.	REV.
	1006614-DRG-09-NW-CC-L001	T2