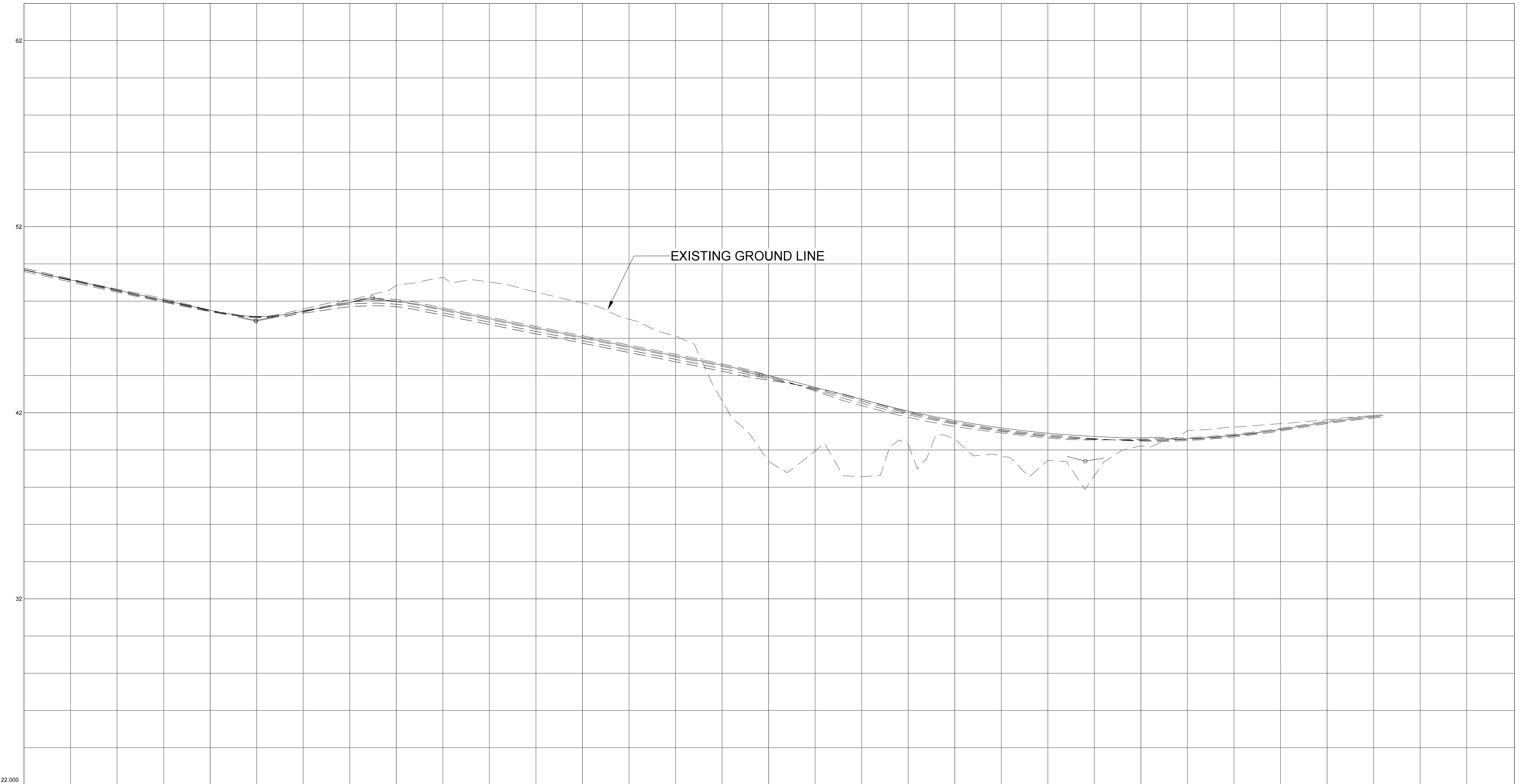

Chainages	Original Ground C/L Levels	Left C/Way Left Edge	Left C/Way Right Edge	Center Line	Right C/Way Left Edge	Right C/Way Right Edge
0	49.68	49.59	49.67	49.69	49.67	49.77
10	49.47	49.37	49.45	49.47	49.46	49.54
20	49.26	49.14	49.22	49.25	49.23	49.31
30	49.06	48.92	48.99	49.03	49.00	49.07
40	48.85	48.70	48.76	48.82	48.78	48.84
50	48.65	48.48	48.54	48.60	48.56	48.61
60	48.45	48.26	48.31	48.38	48.34	48.39
70	48.25	48.05	48.09	48.16	48.12	48.17
80	48.02	47.84	47.87	47.94	47.91	47.96
90	47.78	47.63	47.66	47.72	47.70	47.74
100	47.42	47.43	47.44	47.51	47.49	47.52
110	47.37	47.25	47.26	47.30	47.29	47.30
120	47.14	47.16	47.14	47.18	47.18	47.17
130	47.10	47.17	47.12	47.17	47.17	47.14
140	47.16	47.34	47.26	47.27	47.27	47.20
145	47.27	47.46	47.37	47.36	47.35	47.27
150	47.40	47.58	47.48	47.46	47.44	47.35
155	47.53	47.69	47.58	47.55	47.53	47.42
160	47.64	47.81	47.69	47.65	47.62	47.49
165	47.76	47.92	47.79	47.75	47.71	47.57
170	47.94	48.00	47.87	47.83	47.78	47.64
175	48.04	48.07	47.93	47.89	47.83	47.70
180	48.18	48.12	47.98	48.06	47.87	47.73
185	48.31	48.14	48.01	48.08	47.89	47.75
190	48.44	48.15	48.02	48.08	47.89	47.75
195	48.52	48.13	48.00	48.05	47.87	47.74
200	48.83	48.09	47.96	48.01	47.83	47.70
205	48.92	48.03	47.90	47.94	47.77	47.63
210	48.98	47.95	47.81	47.86	47.68	47.55
215	49.09	47.84	47.71	47.76	47.58	47.44
220	49.20	47.74	47.61	47.66	47.47	47.34
225	49.27	47.64	47.50	47.56	47.37	47.24
230	48.98	47.54	47.40	47.46	47.27	47.14
240	49.16	47.34	47.20	47.26	47.07	46.94
250	49.03	47.14	47.00	47.06	46.87	46.74
260	48.88	46.94	46.80	46.86	46.67	46.54
270	48.61	46.74	46.60	46.66	46.47	46.34
280	48.37	46.54	46.40	46.46	46.27	46.14
290	48.13	46.34	46.20	46.26	46.07	45.94
300	47.91	46.14	46.00	46.06	45.87	45.74
310	47.65	45.94	45.80	45.86	45.67	45.54
320	47.17	45.74	45.60	45.66	45.47	45.34
330	46.89	45.54	45.40	45.46	45.27	45.14
340	46.39	45.34	45.20	45.26	45.07	44.94
350	46.13	45.14	45.00	45.06	44.87	44.74
360	45.69	44.94	44.80	44.86	44.67	44.54
370	43.51	44.73	44.60	44.66	44.47	44.33
380	41.78	44.52	44.39	44.45	44.26	44.12
390	40.85	44.30	44.17	44.23	44.04	43.90
400	39.38	43.99	43.91	44.00	43.83	43.75
410	38.78	43.67	43.64	43.76	43.62	43.59
420	39.54	43.34	43.36	43.50	43.39	43.42
430	40.36	42.99	43.07	43.24	43.15	43.22
440	38.62	42.65	42.78	42.98	42.91	43.01
450	38.56	42.38	42.52	42.72	42.63	42.73
460	38.63	42.12	42.25	42.46	42.36	42.44
465	40.14	41.99	42.13	42.33	42.23	42.30
470	40.54	41.87	42.01	42.21	42.10	42.17
475	40.31	41.76	41.89	42.09	41.97	42.04
480	38.98	41.65	41.78	41.98	41.86	41.92
485	39.56	41.54	41.68	41.88	41.74	41.81
490	40.84	41.45	41.58	41.77	41.64	41.70
495	40.79	41.35	41.48	41.68	41.54	41.60
500	40.58	41.27	41.39	41.58	41.44	41.50
510	39.68	41.11	41.22	41.41	41.26	41.33
520	39.78	40.98	41.06	41.25	41.11	41.17
530	39.58	40.86	40.93	41.12	40.97	41.03
540	38.55	40.74	40.81	41.00	40.85	40.92
550	39.44	40.64	40.71	40.90	40.75	40.82
560	39.38	40.56	40.63	40.82	40.67	40.74
570	37.88	40.54	40.58	40.75	40.61	40.64
580	39.34	40.54	40.55	40.71	40.56	40.57
590	39.99	40.55	40.54	40.64	40.53	40.52
600	40.22	40.58	40.54	40.65	40.52	40.48
605	40.15	40.60	40.55	40.67	40.52	40.47
610	40.38	40.62	40.55	40.70	40.52	40.46
615	40.58	40.63	40.56	40.58	40.53	40.47
620	40.69	40.64	40.58	40.58	40.55	40.49
625	41.04	40.66	40.60	40.60	40.57	40.51
630	41.07	40.69	40.62	40.63	40.60	40.54
635	41.09	40.72	40.66	40.66	40.63	40.57
640	41.15	40.76	40.69	40.70	40.67	40.61
645	41.20	40.80	40.73	40.74	40.72	40.65
650	41.23	40.85	40.78	40.79	40.77	40.70
655	41.26	40.90	40.83	40.84	40.82	40.76
660	41.30	40.96	40.89	40.90	40.88	40.82
665	41.34	41.02	40.96	40.96	40.95	40.88
670	41.38	41.09	41.03	41.03	41.02	40.95
680	41.45	41.24	41.18	41.18	41.17	41.11
690	41.54	41.40	41.34	41.34	41.34	41.27
700	41.62	41.55	41.49	41.49	41.49	41.42
710	41.74	41.69	41.62	41.62	41.62	41.56
720	41.81	41.80	41.74	41.74	41.74	41.67
730	41.89	41.90	41.84	41.84	41.84	41.77

Vertical Alignment

Left C/Way – Grades: -2.223 % | 124.540 46.920 | 2.033 % | 187.152 48.193 | -2.000 % | 395.766 44.021 | -2.651 % | 570.097 39.400 | 1.615 % | 730.000 42.534

Left C/Way – Vertical Curves: BVC 103.540 | 35.000m VC K = 5.483 | EVC 138.540 | BVC 163.152 | 48.000m VC K = 11.902 | EVC 211.152 | BVC 365.766 | 60.000m VC K = 92.189 | EVC 425.766 | BVC 457.597 | 225.000m VC K = 52.742 | 68[illegible] EVC / BVC | 150.000m VC K = 57.637

Right C/Way – Grades: -2.182 % | 124.648 46.968 | 1.960 % | 187.152 48.193 | -2.000 % | 395.766 44.021 | -2.651 % | 570.097 39.400 | 1.615 % | 730.000 42.534

Right C/Way – Vertical Curves: BVC 105.998 | 37.300m VC K = 9.005 | EVC 143.298 | BVC 163.152 | 48.000m VC K = 12.122 | EVC 211.152 | BVC 365.766 | 60.000m VC K = 92.189 | EVC 425.766 | BVC 457.597 | 225.000m VC K = 52.742 | 68[illegible] EVC / BVC | 150.000m VC K = 57.637

Superelevation: 2.000 / -2.000 | 2.000 / -2.000 | 2.000 / -2.000 | 2.000 / -2.000 | 2.000 / -2.000

Horizontal Curves: Direction 126.26.40 | BCC 138.895 | Curve 1 Right Radius=350.000 Angle= 15.00.33 | ECC 230.581 | Direction 141.27.13 | BCC 460.271 | Curve 2 Left Radius=400.000 Angle= 6.18.27 | ECC 504.306 | Direction 135.08.46 | BCC 601.502 | Curve 3 Right Radius=300.000 Angle= 13.04.56 | ECC 670.001 | Direction 148.13.42

eTHEKWINI MUNICIPALITY

ENGINEERING UNIT
ROADS PROVISION DEPARTMENT

PLAN DESCRIPTION	DWG. NO.
CONTINUED FROM	
CONTINUED ON	
CROSS SECTIONS	
TYPICAL CROSS SECTION	
SURVEY LAYOUT	

REDUCED PLAN USE SCALE BELOW
0 10 20 30 40 50 60 70
70mm ON ORIGINAL PLAN

DRAWN IN ALLYWINDOWS

WG31

Revision	Date	Description

NOTE:
No construction work to commence until land and servitude acquisitions have been completed

Acquisitions completed

Date | Engineer

NORTH POINT

UNDERGROUND SERVICES CHECKED

SERVICE	DATE	SIGNATURE
S.W.DRAINS		
SEWERS		
WATER MAINS		
G.P.O.CABLES		
ELECTRIC CABLES		
S.A.R. CABLES		
E.S.C. CABLES		
OIL PIPE LINE		

NOTE:
Only underground services affected by new construction work are shown. Care must be taken during excavations for road foundations, trenches etc... to avoid damage to underground services such as sewers, drains, cables, water mains and connections. Wherever possible these must be located before work proceeds.

IT - 47319
Contract No

Project Title
IPTN - C3 CORRIDOR, WP 5: CROSSROADS CONSTRUCTION WHICH INCLUDES A CULVERT WIDENING AND ASSOCIATED WORKS, KWAMASHU

Drawing Title
BRT LONGITUDINAL SECTIONS
CH0 to CH730

Scales: H. SCALE 1:1000, V. SCALE 1:100
Reference

Designed: G. MANIKAM
Date: 02 SEPTEMBER 2021
Checked
Drawn in AllyWindows by F. ABDUL KARRIM

D/H : Roads Provision

D/H : RSM (ETA)

A.M.Peters
Head : Engineering

Drawing No 49026
Sheet 04 of 12 Sheets

PRELIMINARY DRAWING