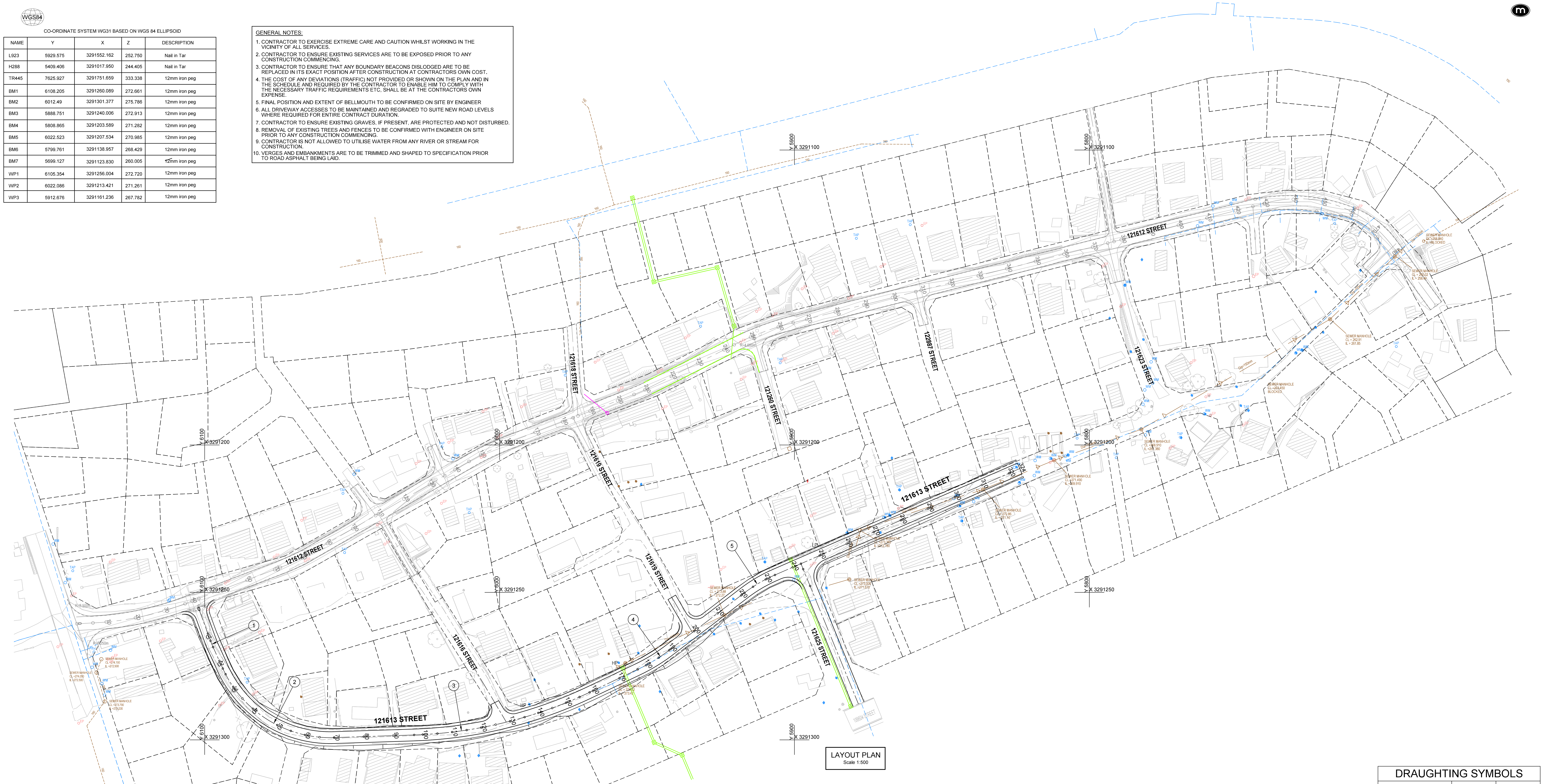
CO-ORDINATE SYSTEM WG31 BASED ON WGS 84 ELLIPSOID

NAME	Y	X	Z	DESCRIPTION
L923	5929.575	3291552.162	252.750	Nail in Tar
H288	5409.406	3291017.950	244.405	Nail in Tar
TR445	7625.927	3291751.659	333.338	12mm iron peg
BM1	6108.205	3291260.089	272.661	12mm iron peg
BM2	6012.49	3291301.377	275.786	12mm iron peg
BM3	5888.751	3291240.006	272.913	12mm iron peg
BM4	5808.865	3291203.589	271.282	12mm iron peg
BM5	6022.523	3291207.534	270.985	12mm iron peg
BM6	5799.761	3291138.957	268.429	12mm iron peg
BM7	5699.127	3291123.830	260.005	12mm iron peg
WP1	6105.354	3291256.004	272.720	12mm iron peg
WP2	6022.086	3291213.421	271.261	12mm iron peg
WP3	5912.676	3291161.236	267.782	12mm iron peg

GENERAL NOTES:

1. CONTRACTOR TO EXERCISE EXTREME CARE AND CAUTION WHILST WORKING IN THE VICINITY OF ALL SERVICES.
2. CONTRACTOR TO ENSURE EXISTING SERVICES ARE TO BE EXPOSED PRIOR TO ANY CONSTRUCTION COMMENCING.
3. CONTRACTOR TO ENSURE THAT ANY BOUNDARY BEACONS DISLODGED ARE TO BE REPLACED IN ITS EXACT POSITION AFTER CONSTRUCTION AT CONTRACTORS OWN COST.
4. THE COST OF ANY DEVIATIONS (TRAFFIC) NOT PROVIDED OR SHOWN ON THE PLAN AND IN THE SCHEDULE AND REQUIRED BY THE CONTRACTOR TO ENABLE HIM TO COMPLY WITH THE NECESSARY TRAFFIC REQUIREMENTS ETC, SHALL BE AT THE CONTRACTORS OWN EXPENSE.
5. FINAL POSITION AND EXTENT OF BELLMOUTH TO BE CONFIRMED ON SITE BY ENGINEER
6. ALL DRIVEWAY ACCESSES TO BE MAINTAINED AND REGRADED TO SUITE NEW ROAD LEVELS WHERE REQUIRED FOR ENTIRE CONTRACT DURATION.
7. CONTRACTOR TO ENSURE EXISTING GRAVES, IF PRESENT, ARE PROTECTED AND NOT DISTURBED.
8. REMOVAL OF EXISTING TREES AND FENCES TO BE CONFIRMED WITH ENGINEER ON SITE PRIOR TO ANY CONSTRUCTION COMMENCING.
9. CONTRACTOR IS NOT ALLOWED TO UTILISE WATER FROM ANY RIVER OR STREAM FOR CONSTRUCTION.
10. VERGES AND EMBANKMENTS ARE TO BE TRIMMED AND SHAPED TO SPECIFICATION PRIOR TO ROAD ASPHALT BEING LAID.



LAYOUT PLAN
Scale 1:500

CRITICAL POINTS

Name	Y-Coord	X-Coord	Z-Coord
BC1	6096.763	3291252.481	272.602
BC10	5936.702	3291257.038	274.528
BC11	5918.211	3291248.583	273.428
BC12	5889.820	3291238.965	273.082
BC13	5896.555	3291248.571	272.991
BC14	5905.819	3291245.917	273.224
BC15	5941.324	3291271.229	274.772
BC16	5968.596	3291285.670	275.509
BC17	6056.045	3291301.216	274.642
BC18	6098.957	3291269.374	273.131
BC19	6102.809	3291259.092	272.834
BC2	6096.135	3291265.716	272.897
BC3	6092.016	3291274.973	273.249
BC4	6029.015	3291296.324	275.236
BC6	5998.794	3291289.197	275.905
BC8	5953.996	3291274.296	274.900
BC9	5939.639	3291264.915	274.497
EC1	6099.099	3291257.590	272.672
EC10	5930.826	3291258.198	274.088
EC11	5907.414	3291242.248	273.066
EC12	5892.981	3291246.742	272.929
EC13	5904.498	3291245.343	273.211
EC14	5915.786	3291251.764	273.582
EC15	5952.278	3291277.909	275.062
EC16	6028.883	3291300.322	275.394
EC17	6095.657	3291276.630	273.403
EC18	6099.893	3291267.087	273.047
EC19/BC20	6107.911	3291256.696	272.750
EC2	6095.316	3291267.717	272.973
EC20	6129.077	3291261.805	273.100
EC3	6056.177	3291297.218	274.480
EC4/BC5	6005.814	3291293.718	275.726
EC5	6002.983	3291288.025	276.001
EC6/BC7	5994.285	3291291.009	275.795
EC7	5970.314	3291282.058	275.350
EC8	5943.749	3291268.048	274.615
EC9	5938.612	3291259.712	274.407
PT0	6085.760	3291248.294	272.394
PT1	6000.282	3291286.693	275.935
PT2	5942.880	3291252.427	274.492
PT3	5940.291	3291250.911	274.352
PT4	5824.370	3291206.162	272.163
PT5	5822.839	3291209.858	272.324
PT6	5876.471	3291287.043	267.729
PT7	5880.173	3291288.560	267.668

CENTRE LINE

Y-Coord	X-Coord	Z-Coord
6102.320	3291254.595	272.668
6098.894	3291263.990	272.881
6026.054	3291298.200	275.395
6021.066	3291297.856	275.534
6016.092	3291297.346	275.673
6011.138	3291296.670	275.773
6006.210	3291295.830	275.802
6001.312	3291294.826	275.830
5996.450	3291293.659	275.858
5991.630	3291292.331	275.887
5986.857	3291290.843	275.829
5982.136	3291289.196	275.772
5977.472	3291287.394	275.648
5972.871	3291285.437	275.523
5968.336	3291283.332	275.399
5959.306	3291279.037	275.150
5950.312	3291274.667	274.901
5946.021	3291272.104	274.789
5941.955	3291269.196	274.677
6095.019	3291273.202	273.225
5934.002	3291263.134	274.452
5926.049	3291257.072	273.937
5918.095	3291251.010	273.558
5914.042	3291248.085	273.368
5909.727	3291245.564	273.179
5900.606	3291241.471	273.085
6092.896	3291277.729	273.401
5891.434	3291237.485	272.991
5882.263	3291233.500	273.118
5873.091	3291229.514	273.245

CENTRE LINE

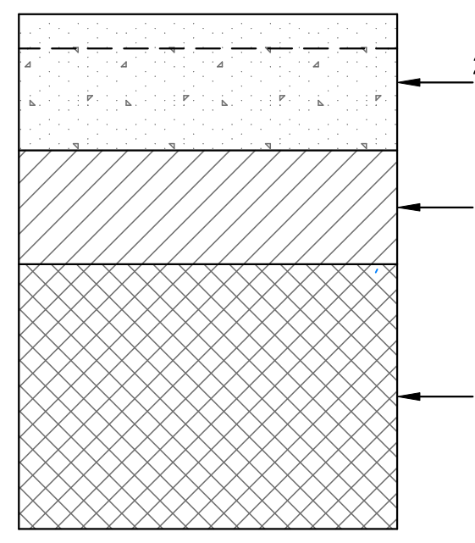
Name	Y-Coord	X-Coord	Z-Coord
280	5863.920	3291225.529	273.264
290	5854.748	3291221.543	273.283
30	6090.314	3291282.007	273.577
300	5845.577	3291217.558	273.048
310	5836.405	3291213.573	272.812
320	5827.234	3291209.587	272.404
323.957	5823.604	3291208.010	272.243
35	6087.219	3291285.929	273.713
40	6083.659	3291289.435	273.849
45	6079.690	3291292.470	273.985
50	6075.373	3291294.987	274.120
55	6070.776	3291296.945	274.256
60	6065.970	3291298.315	274.364
65	6061.032	3291299.075	274.463
70	6056.037	3291299.214	274.562
80	6046.042	3291298.885	274.840
90	6036.048	3291298.557	275.118
CL	5894.704	3291247.813	272.960
INT	5897.801	3291240.252	273.056
INTR	5897.043	3291242.103	273.137
TIE	5878.322	3291287.802	267.698

Road Centre Line Details

Position	Y	X	CH
PI0	6102.320	3291254.595	0
BCC1	6098.014	3291266.402	12.567
PI1	6097.617	3291267.491	13.726
ECC1	6097.137	3291268.546	14.885
BCC2	6093.836	3291275.802	22.856
PI2	6082.785	3291300.094	46.391
ECC2	6056.112	3291299.217	69.925
BCC3	6028.949	3291298.323	97.102
PI3	5997.695	3291297.295	127.931
ECC3	5969.455	3291283.864	158.761
BCC4	5953.137	3291276.103	176.831
PI4	5947.500	3291273.422	183.050
ECC4	5942.536	3291269.638	189.270
BCC5	5916.999	3291250.174	221.379
PI5	5912.177	3291246.499	227.412
ECC5	5906.617	3291244.083	233.446
PI6	5823.604	3291208.010	323.957

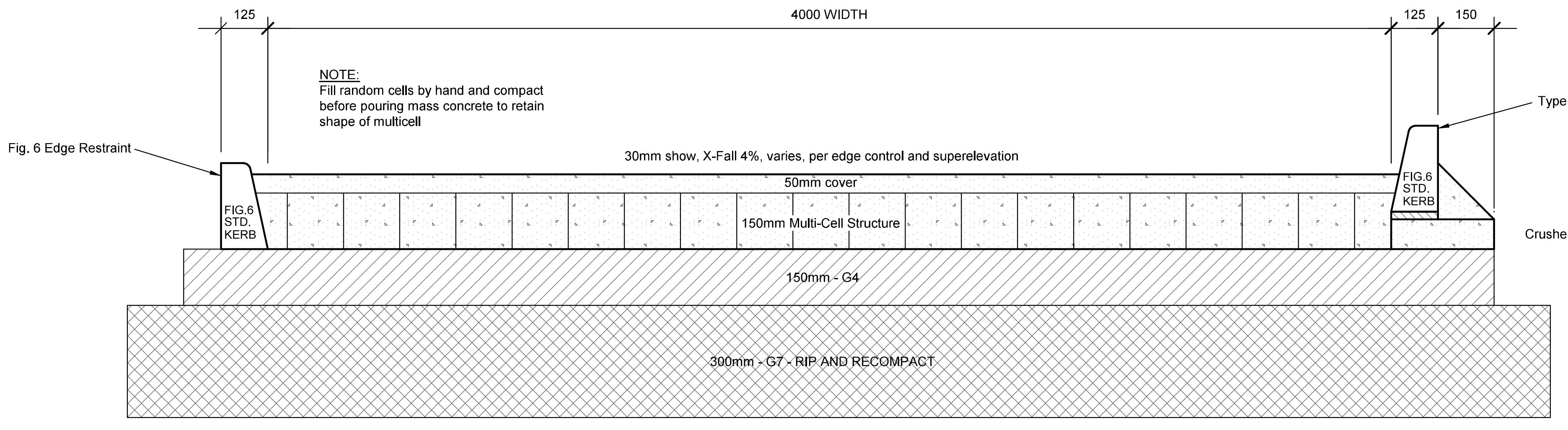
Road Centre Line Curve Details

No	Radius	TR In	TR Out	TAN In	TAN out	Deflection
0	0.000	0.000	0.000	0.000	0.000	0.00.00
1	30.000	0.000	0.000	1.159	1.159	4.25.36
2	40.000	0.000	0.000	26.688	26.688	67.25.19
3	150.000	0.000	0.000	31.271	31.271	23.33.07
4	60.000	0.000	0.000	6.242	6.242	11.52.42
5	50.000	0.000	0.000	6.063	6.063	13.49.38
6	0.000	0.000	0.000	0.000	0.000	0.00.00


200mm - 20/26 Mpa Concrete
150mm Multi Cell Reinforcement
150mm - G4 Imported Graded Crushed Stone compacted to 95% Mod AASHTO
300mm - G7 Insitu Subgrade, rip and re-compact to 95% Mod AASHTO

CONCRETE PAVEMENT LAYERS
SCALE:- 1 : 10

NOTE :
REFER TO GENERAL NOTES
ON STD DRG No. 38577


125
4000 WIDTH
125
150
Fig. 6 Edge Restraint
Type "B" Barrier Kerb, Fig. 6
30mm show, X-Fall 4%, varies, per edge control and superelevation
50mm cover
150mm Multi-Cell Structure
FIG.6 STD. KERB
FIG.6 STD. KERB
Crusher Run Base
150mm - G4
300mm - G7 - RIP AND RECOMPACT

NOTE:
Fill random cells by hand and compact before pouring mass concrete to retain shape of multicell

TYPICAL CROSS SECTION
FIG. 6 TYPE "B" BARRIER KERB EDGE
MULTI-CELL CONCRETE DETAILS
SCALE:- 1 : 10

DRAUGHTING SYMBOLS

DETAIL	Proposed	Existing
CENTERLINE	—	—
WATERMAIN DUCT	◀▭▶	◁▭▷
TELKOM CABLE DUCT	▭	▭
ELECTRIC CABLE DUCT	▭	▭
ELECTRIC CABLES	—○—	—○—
ELECTRIC LIGHT POLE	ELP ●	ELP ○
TRAFFIC SIGNAL	TS ●	TS ○
CONSUMER DISTRIB. UNIT	CDU ▣	CDU ▣
TELKOM CABLES	TMH	TMH
TELEPHONE POLE	● TP	○ TP
SEWER	● S	○ S
STORMWATER DRAIN	SWD	SWD
STORMWATER INLET	◢ ▲ ◣	◺ △ ◿
SCOOP	⊠	⊠
KERB AND CHANNEL	=	=
EARTH EMBANKMENT	⊔	⊔
WATERMAIN	—	—
VALVE Valve Air Valve	● V ● AV	● V ● AV
FIRE PLUG	FP	FP
STANDARD HYDRANT	SH	SH
EXISTING M.H. TO BE CONVERTED TO CATCHPIT	◺	□
EXISTING CATCHPIT TO BE CONVERTED TO M.H.	◺	◺

FOR TENDER PURPOSES ONLY

New Road Area .... m²

Unsurfaced to Surfaced .... km's

AS BUILT

Date .... Sign. ....

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.

Contract No
1R-33139

Project Title

121613 STREET
WARD 45
GRAVEL TO SURFACE

Drawing Title

DIMENSIONS, SETTING OUT,
PROPOSED SERVICES LAYOUT
PLAN AND TYPICAL DETAILS

Scales	Reference
AS SHOWN	
Designed LNJ CLOETE	Date 08 SEPTEMBER 2026
Checked B.GOVENDER	Drawn in AllyWindows by LNJ CLOETE

Manager RD (N)

Deputy Director : RP

Director : Engineering Services

Drawing No
49580

Sheet 01
of 03 Sheets