

SETTING OUT DATA-HA <Road 1>

NAME	CH	Y	X	DETAILS
START	0.000	15 241.725	3 330 384.147	L 22 895m
BCC1	22.895	15 243.821	3 330 406.946	R 25.000m
PI1	15 245.125	3 330 421.239		DA 59°43'20"
ECC1	48.953	15 233.455	3 330 429.580	TL 14.355m AL 26.559m
BCC2	98.812	15 192.880	3 330 458.554	R 500.000m
PI2	15 192.754			DA 2°51'00"
ECC2	123.692	15 173.009	3 330 473.511	TL 12.443m AL 24.880m
BCC3	145.473	15 155.926	3 330 487.035	R 10.000m
PI3	15 150.028			DA 3°00'00"
ECC3	158.374	15 143.905	3 330 487.333	TL 7.524m AL 12.901m
END	325.453	15 007.944	3 330 390.226	L 167.078m

SETTING OUT DATA-HA <Road 2>

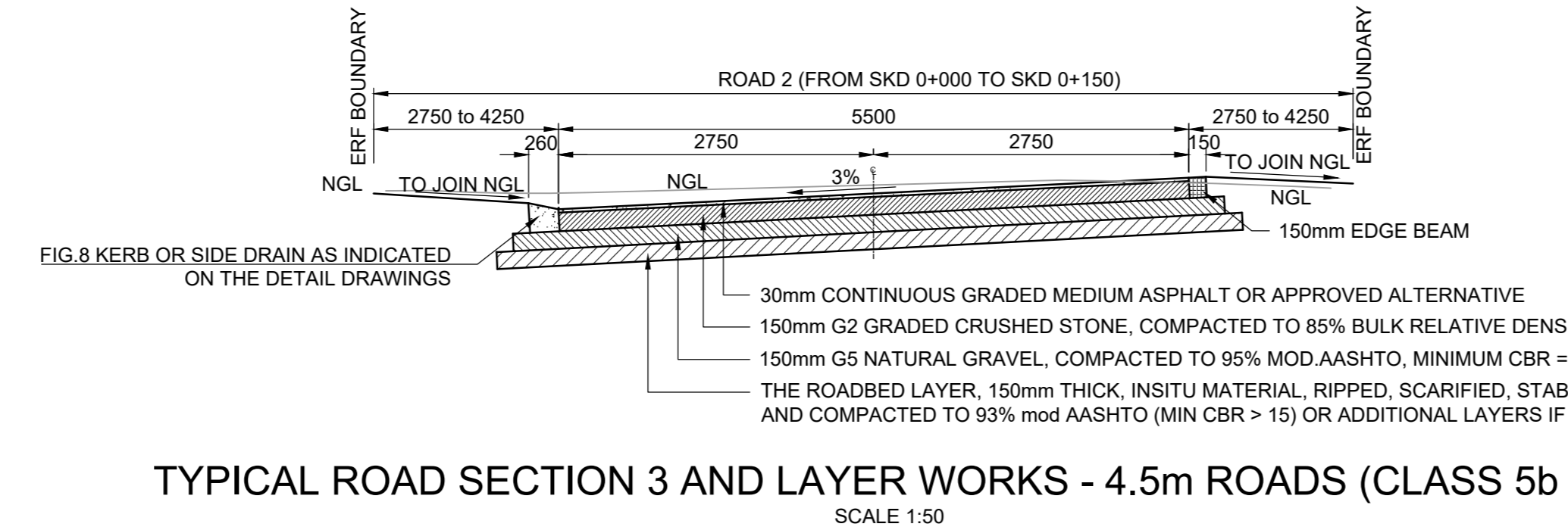
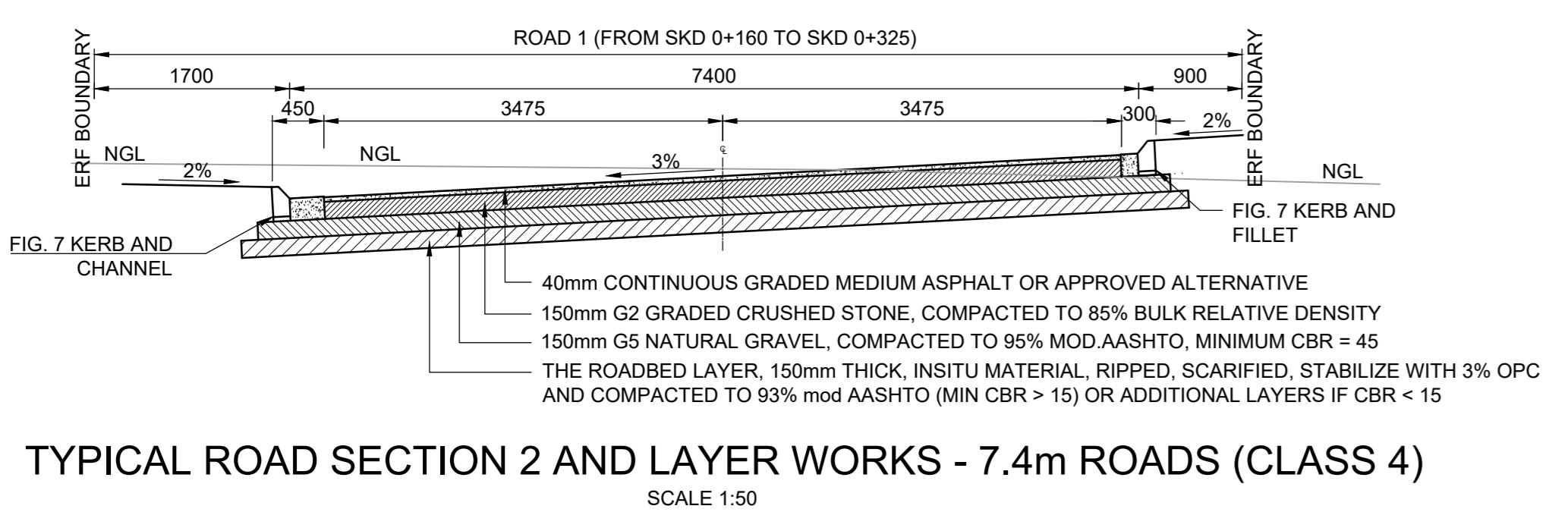
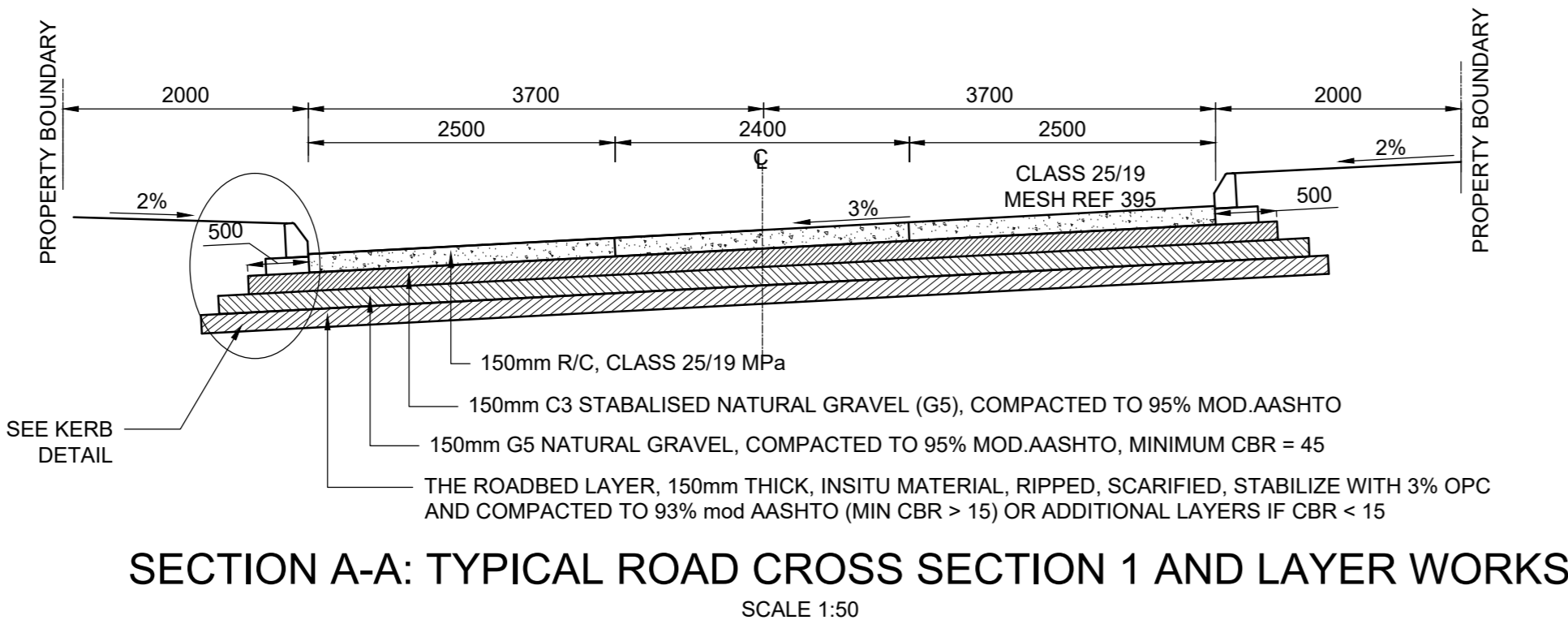
NAME	CH	Y	X	DETAILS
START	0.000	15 016.780	3 330 377.550	L 26.883m
BCC1	26.883	15 001.408	3 330 399.604	R 60.000m
PI1	14 996.391			DA 10°03'00"
ECC1	37.407	14 996.176	3 330 408.720	TL 5.275m AL 10.524m
BCC2	99.082	14 970.279	3 330 464.694	R 1000.000m
PI2	14 963.444			DA 1°52'00"
ECC2	131.638	14 957.093	3 330 479.460	TL 16.269m AL 32.556m
BCC3	155.909	14 947.624	3 330 516.806	R 100.000m
PI3	14 941.051			DA 19°06'00"
ECC3	189.243	14 929.790	3 330 544.787	TL 16.823m AL 33.335m
BCC4	232.574	14 900.762	3 330 576.956	R 250.000m
PI4	14 887.800			DA 8°51'00"
ECC4	271.192	14 872.783	3 330 603.519	TL 19.348m AL 36.618m
END	323.252	14 832.375	3 330 636.343	L 52.060m

PARK BENCHMARKS

NAME	Y CO-ORD	X CO-ORD	ELEVATION	DESCRIPTION
JG1	15 232.65	3330 440.440		STEEL NAIL
JG2	15 211.24	3330 438.170		STEEL NAIL
JG3	15 233.51	3330 420.070		STEEL NAIL
KIN21	15 172.04	3330 344.860	81.32	12mm IRON PEG
MH	15 156.54	3330 333.180	81.16	CENTRE OF MANHOLE COVER
BM1	15 150.45	3330 338.390	80.87	ROOFING SCREW IN TAR
BM2	15 110.86	3330 331.000	80.56	ROOFING SCREW IN TAR

ROAD WIDENING CO-ORDINATES

NAME	Y CO-ORD	X CO-ORD
ER1	15 174.070	3330 477.097
ER2	15 170.347	3330 480.434
ER3	15 166.624	3330 483.772
ER4	15 162.902	3330 487.110
ER5	15 159.179	3330 490.448
ER6	15 155.457	3330 493.786
ER7	15 151.734	3330 497.124
ER8	15 148.012	3330 500.462
ER9	15 144.290	3330 503.800
ER10	15 140.568	3330 507.138



- GENERAL NOTES :**
- THE CONTRACTOR TO KEEP A FULL SET OF DRAWINGS ON SITE.
 - THE CONTRACTOR IS RESPONSIBLE FOR CORRECT SETTING OUT ON SITE WITH PARTICULAR REFERENCE TO THE BOUNDARIES AND BUILDING LINES AND GIVEN CO-ORDINATES.
 - THE CONTRACTOR SHALL VERIFY ALL LEVELS AND DIMENSIONS ON SITE.
 - DO NOT SCALE. USE FIGURED DIMENSIONS ONLY.
 - LARGE SCALE DETAILS TO BE USED WHEN AVAILABLE.
 - ALL LAYOUTS TO BE READ IN CONJUNCTION WITH ANY RELEVANT ARCHITECTURAL, CIVIL, STRUCTURAL OR OTHER DRAWINGS.
 - ANY ERROR OR DISCREPANCIES ARE TO BE REPORTED IMMEDIATELY TO THE ENGINEER FOR CORRECTION BEFORE THE WORK IS UNDERTAKEN.
 - THE CONTRACTOR IS TO IDENTIFY AND EXPOSE, WHERE RELEVANT, ALL UNDERGROUND SERVICES ON SITE.
 - CONSTRUCTION TO BE IN ACCORDANCE WITH THE CONTRACT SPECIFICATION WORKS AND INFORMATION, OR RELEVANT SABS 1200 SPECIFICATION.
 - SHOULD THE ENGINEER BE REQUIRED ON SITE, 24 HRS. NOTICE IS REQUESTED.

- EARTHWORKS :**
- ALL EARTHWORKS TO BE CARRIED OUT IN ACCORDANCE WITH SABS 1200 DM (INCLUDING ALL THE LATEST REVISIONS).
 - PIPE TRENCHES IN ACCORDANCE WITH SABS 1200 DB.
 - SITE CLEARANCE AND GRUBBING OPERATIONS SHALL BE IN ACCORDANCE WITH SABS 1200 C.
 - THE CONTRACTOR TO IDENTIFY AND EXPOSE, WHERE RELEVANT, ALL UNDERGROUND SERVICES ON SITE. HE SHOULD LIAISE WITH ALL THE RELEVANT AUTHORITIES FOR THE LOCATION AND PROTECTION OF THESE SERVICES.
 - ALL APPROVED MATERIAL TO BE STOCKPILED SEPARATELY, AND LATER RE-USED AS PER ARCHITECTS' ENGINEERS INSTRUCTIONS.
 - THE CONTRACTOR IS TO ONLY USE APPROVED FILL MATERIAL AS SPECIFIED BY THE ENGINEER.
 - THE CONTRACTOR SHALL TIMELY SUBMIT FIELD AND LABORATORY TEST RESULTS OF THE RELATIVE COMPACTION DENSITIES, CBR INDICATOR TESTS OR ANY OTHER TEST RESULTS AS REQUIRED, TO THE ENGINEER.
 - FIELD DENSITY TESTS SHOULD BE CARRIED OUT AT A RATE OF 1 TEST PER 150 SQ. METRE PER LAYER.
 - THE POSITION OF TESTS AND LAYERS TESTED TO BE INDICATED ON A KEY PLAN AND SUBMITTED WITH THE RESULTS TO THE ENGINEER.
 - TESTS TO BE DONE BY AN INDEPENDANT LABORATORY APPROVED BY THE ENGINEER.
 - POSITION OF TESTS TO BE APPROVED BY THE ENGINEER.
 - ONE OF THE DENSITY TESTS SHOULD BE A SAND REPLACEMENT TEST / 15 TROXLER TESTS AND EVENLY SPREAD OVER ALL LAYERS.
 - THE CONTRACTOR SHALL MAKE PROVISION FOR STORMWATER CONTROL.
 - MAXIMUM TEMPORARY CUT SLOPES TO BE 1:1 AND FILL SLOPES 1:2. PERMANENT CUT SLOPES TO BE 1:1.5 UNLESS OTHERWISE STATED.
 - AS BUILT SURVEY LEVELS TO BE HANDED TO THE ENGINEER AFTER THE COMPLETION OF EARTHWORKS.

- BACKFILLING :**
- ALL BACKFILLING BEHIND RETAINING WALLS, BELOW SURFACE BEDS, UNDER STAIRS ON FILL AND ALL JOCKEY SLABS SHALL BE G5 MATERIAL COMPACTED IN 150mm LAYERS TO 95% MOD. AASHTO DENSITY, UNLESS OTHERWISE SHOWN.
 - ALL MATERIAL USED FOR BACKFILLING IS TO BE TESTED BY THE CONTRACTOR FOR APPROVAL BY THE ENGINEER, UNLESS OTHERWISE SHOWN.

- CONCRETE :**
- 150mm CONCRETE CLASS 25/19.
 - SURFACE FINISH - U2 WITH BROOM FINISH.
 - CONCRETE COVER = Min. 50mm
 - CONSTRUCTION JOINTS AT 3.0m INTERVALS. PANELS TO BE CAST ALTERNATIVELY.
 - IN SITU MATERIAL SHALL BE COMPACTED TO 95% MOD AASHTO.
 - 150 MICRON POLYETHYLENE SHEETING SHALL BE PLACED AS A WORKING SURFACE FOR CHANNEL IN SANDY MATERIAL.
 - CONCRETE EDGE THICKENING AS SHOWN ON SECTION B-B REQUIRED ON ALL LONGITUDINAL EDGES OF ROADWAY.
 - BACKING MATERIAL TO BE A LOW DENSITY, CLOSED CELL POLYETHYLENE FOAM OR SIMILAR APPROVED (12.5mm DIA)

NOTE:
THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRAWING NO. 02-2065-110-001

REV No	DATE	DESCRIPTION
1	07/09/2018	UPDATED ROAD LAYOUT
2	20/09/2018	CONCRETE SURFACING UPDATE
3	11/10/2018	UPDATED ROAD 2 LAYOUT
4	31/10/2018	ROAD 1 WIDENED FROM km 0.130 - km 0.160
5	12/11/2018	ROAD 2 WIDTH REVISION
6	03/12/2018	LIMIT OF CONSTRUCTION REVISION

REVISIONS

19 Park Lane
The Boulevard, 1st Floor
Umhlanga Ridge
+27 31 003 0920
Tel

APPROVED: CONSULTING ENGINEER: _____ DATE: _____

DRG No.	DESCRIPTION	SOURCE

SURVEYED BY:	BUTTON & O'CONNOR INC.
DESIGNED BY:	P. MKHIZE
CHECKED BY:	R. STEENKAMP
DRAWN BY:	A.MADONSELA
CHECKED BY:	R. STEENKAMP

EAST RAND JUNCTION (Pty) Ltd

CLIENT DRAWING No: _____

CONTRACT No: _____

PROJECT:
KINGSBURGH COMMERCIAL INDUSTRIAL PARK

DRAWING TITLE:
ROAD LAYOUT PLAN

SCALES:	AS SHOWN	SHEET	1 OF 3
FOR CONSTRUCTION	A0	ESCBPH DRG No.	02-2065-410-001
		REV. No	6