

- GENERAL SAFETY NOTES:**
- WHERE THE ROAD BASE HAS BEEN USED AS A TEMPORARY RUNNING SURFACE DURING THE CONTRACT IT SHALL BE THOROUGHLY CLEANED AND POWER ROLLED AS NECESSARY AFTER DRYING AND IMMEDIATELY BEFORE THE FINISH COURSE IS LAYED. A THICK COAT OF BRUSHED BALKENGLASS AT A DOSE OF 40 TO 50 KG SHALL BE APPLIED AT A RATE OF 0.25 KG PER SQUARE METRE.
 - ALL FINISH SURFACES WITH A FINISH OF 20 OR LESS SHALL BE FORMED WITH PROPRIETARY RADIUS KURBS.
- GENERAL SAFETY:**
- THE CONTRACTOR SHOULD BE AWARE OF GENERAL CONSTRUCTION RISKS TO PREVENT SLIPS, TRIPS AND FALLS AND TAKE NECESSARY PRECAUTIONS WITHOUT SPECIAL INSTRUCTION.
 - WORKERS SHOULD WEAR APPROPRIATE SAFETY EQUIPMENT AND ENSURE THAT PLANT REMAINS A SAFE DISTANCE FROM TRENCHES PRIOR TO INSTALLING DRAINAGE.
 - THE TIME THAT EXCAVATIONS ARE OPEN ON SITE SHOULD BE KEPT TO A MINIMUM AND ALL TRENCHES SHOULD BE SURROUNDED BY A BARRIER.
 - CONTRACTOR TO DESIGN SERVICES TO BE MADE BY APPROVED CONTRACTOR ONLY.
 - CONTRACTOR TO MAKE OPERATIVES AWARE OF ASSOCIATED DANGERS TO HEALTH SUCH AS LEFT HANDS, WELD SMOKE AND RECOMMENDED PPE. ADEQUATE WELFARE FACILITIES AND PROTECTIVE CLOTHING TO BE PROVIDED AS REQUIRED.
 - UNFINISHED WALLS MUST BE COVERED WITH LOAD BEARING MATERIALS AND SURROUNDED WITH BARRIERS.
- PRE & LABS:**
- CONTRACTOR TO OBTAIN ALL SERVICE RECORDS PRIOR TO WORKING COMMENCING.
 - SERVICE RECORDS TO BE REFERRED TO PRIOR TO WORK COMMENCING. CONTRACTOR TO PROCEED WITH CAUTION AND SERVICES TO BE LOCATED BY HAND DIG AND PROTECTED ACCORDINGLY.
- EXCAVATIONS:**
- CONTRACTOR TO ENSURE RELEVANT MEASURES ARE TAKEN TO KEEP PLANT AND PEOPLE A SAFE DISTANCE FROM EXCAVATIONS PRIOR TO STARTING THE WORK.
 - CONTRACTOR TO ENSURE THAT PROTECTIVE ARE IN PLACE TO KEEP PEOPLE A SAFE DISTANCE FROM WORKING PLANT WHERE NECESSARY.
 - CONTRACTOR TO REFER TO GEOTECHNICAL INVESTIGATION REPORT FOR CONSTRUCTION TESTS AND TO PROVIDE ADEQUATE WELFARE FACILITIES AND PROTECTIVE CLOTHING AS REQUIRED.

DIRECT SURFACE COMPARISON VOLUME SUMMARY

CUT VOLUME = 151166m³
 FILL VOLUME = 33448106m³
 NET VOLUME = 3696939m³ (FILL)

NOTE: PROPOSED SURFACE OVER EXISTING SURFACE COMPARISON

POST SITE STRIP VOLUME SUMMARY

CUT VOLUME = 25096m³
 FILL VOLUME = 6383237m³
 NET VOLUME = 6358141m³ (FILL *1)

NOTE: PROPOSED SURFACE OVER & EXISTING SURFACE MINUS 300mm TOPSOIL STRIP

FORMATION LEVEL COMPARISON KEY

NUMBER	MINIMUM LEVEL	MAXIMUM LEVEL	COLOUR	AREA m ²	VOLUME m ³
1	-1.08	-0.75	Red	29.02	2.10
2	-0.75	-0.50	Orange	158.30	26.58
3	-0.50	-0.25	Yellow	358.24	95.94
4	-0.25	0.00	Light Green	1005.71	235.14
5	0.00	0.25	Green	2225.08	520.79
6	0.25	0.50	Dark Green	2138.17	977.42
7	0.50	0.75	Blue-Green	1625.11	495.00
8	0.75	1.00	Blue	700.87	233.37
9	1.00	1.25	Dark Blue	486.56	70.66
10	1.25	1.58	Purple	96.37	8.28

FORMATION LEVEL SURFACE COMPARISON VOLUME SUMMARY

CUT VOLUME = 359769m³
 FILL VOLUME = 3305520m³
 NET VOLUME = 2945751m³ (FILL *2)

NOTE: FORMATION LEVEL SURFACE OVER POST SITE STRIP SURFACE

ESTIMATED ARISING TABLE

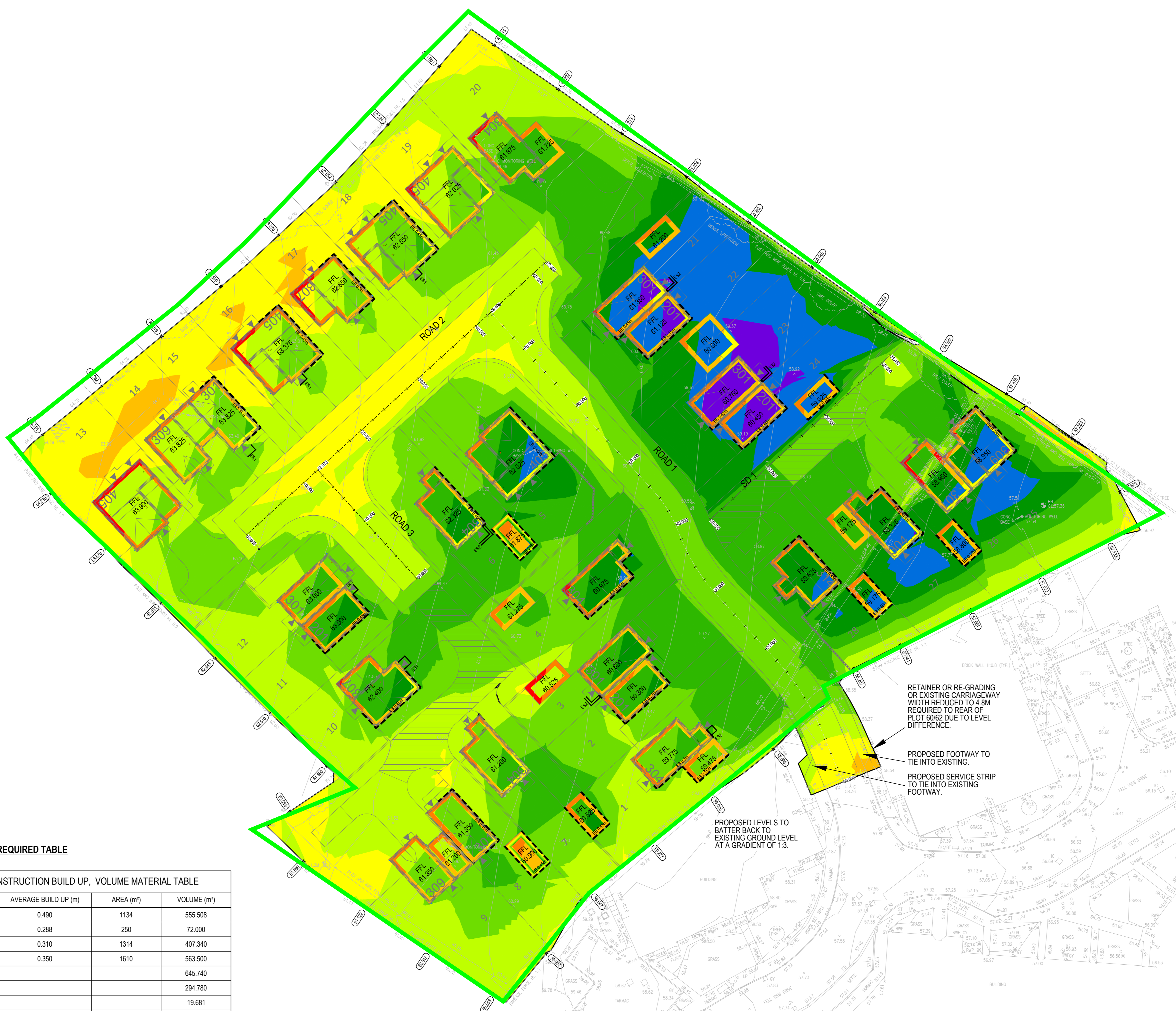
CONSTRUCTION	ALLOWANCE	CUT VOLUME (m ³)	FILL VOLUME (m ³)	OVERALL VOLUME (m ³)
SITE STRIP & RE-USE	0.3M STRIP	3936.225	3936.225	0.000
ADOPTABLE DRAINAGE	TAKE OFF			-645.740
PLOT FOUNDATION TBC	AS PER FOUNDATION SCHEDULE BASED ON AVERAGE DEPTH	252.992	626.231	373.239
PRIVATE DRAINAGE	TAKE OFF			-294.780
GULLYS & LEADS	TAKE OFF			-19.681
SHARED DRIVES	0.288	0.001	114.668	114.668
PRIVATE DRIVES	0.310	2435.475	2230.032	-205.443
ROADS FOOTPATHS & SERVICES	0.490	15.453	263.199	247.746
TOTAL				-429.991

ESTIMATED MATERIAL REQUIRED TABLE

CONSTRUCTION	AVERAGE BUILD UP (m)	AREA (m ²)	VOLUME (m ³)
ADOPTABLE ROADS	0.490	1134	555.508
SHARED PRIVATE DRIVES	0.288	250	72.000
PRIVATE DRIVES	0.310	1314	407.340
PLOT FORMATION (VOID) TBC	0.350	1610	563.500
ADOPTABLE DRAINAGE			645.740
PRIVATE DRAINAGE			294.780
GULLYS & LEADS			19.681
TOTAL *4			2558.549

OVERALL VOLUME SUMMARY

ESTIMATED TOTAL VOLUME = SITE STRIP VOLUME (*1) 6358.141m³ (FILL) - FORMATION SURFACE VOLUME (*2) 2945.751m³ (FILL) = 3412.390m³ (FILL *3)
 ESTIMATED TOTAL VOLUME (*3) 3412.390m³ (FILL) - ESTIMATED CONSTRUCTION MATERIAL (*4) 2558.549m³ (IMPORT/VOID) = 853.841m³ (FILL)
 ESTIMATED OVERALL CUT & FILL VOLUME = 853.841m³ (FILL)



- CUT & FILL NOTES:**
- THE NET CUT AND FILL DEPTHS & VOLUMES ABOVE HAVE BEEN TAKEN FROM DIRECT COMPARISON BETWEEN THE PROPOSED SURFACE & LATEST TOPOGRAPHICAL SURVEY DATA RECEIVED & POST SITE STRIP SURFACE & LATEST TOPOGRAPHICAL SURVEY DATA RECEIVED.
 - NO ALLOWANCE HAS BEEN MADE IN THE NET VOLUME FOR THE FOLLOWING:
 - IMPORTED TOP SOIL
 - WORK AND SURROUNDED SLABS
 - SOIL BALKING FACTOR
 - SITE CLEAN MATERIALS
 - ALL FIGURES ARE APPROXIMATE.

- DESIGN NOTES:**
- ALL WORKS TO COMPLY WITH CURRENT VERSION OF THE FOLLOWING DOCUMENTS:
 - DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)
 - SPECIFICATION FOR HIGHWAY WORKING DRAWINGS
 - LOCAL AUTHORITY DESIGN GUIDE AND SPECIFICATION
 - PRIOR TO COMMENCING WORKS THE CONTRACTOR SHOULD INVESTIGATE AND LOCATE AS NECESSARY ANY UTILITIES UNDER AND ABOVE GROUND WITHIN THE NEW ACCESS AND DRAINAGE REQUIREMENTS FOR CONSTRUCTION AND PROTECTION WITH THE RELEVANT UTILITY AGENTS.
 - ALL WORKS WITHIN THE FIELD OF WORK MUST BE TO THE LOCAL AUTHORITY REQUIREMENTS.
 - CONTRACTOR TO APPLY FOR ROAD OPENING NOTICES ETC AS REQUIRED.
 - CONSTRUCTION MUST BE IN ACCORDANCE WITH THE ROAD CONSTRUCTION DETAILS SUBJECT TO AGREEMENT OF CDR.
 - CONTRACTOR TO ALLOW FOR LAB TESTS TO BE UNDERTAKEN IN AGREEMENT WITH LOCAL AUTHORITY HIGHWAY DIVISION PRIOR TO WORK COMMENCING.
 - PROPOSED LEVELS HAVE BEEN BASED ON THE EXISTING TOPOGRAPHICAL SURVEY NUMBER AND RECORDATION BY SITE DATED JANUARY 2019.
 - PROPOSED DRAWING BASED ON LATEST ARCHITECTURAL LAYOUT RECEIVED.
 - SLOPES GREATER THAN 1 IN 8 MAY REQUIRE STABILISATION. GEOTECHNICAL ENGINEER TO BE CONTACTED TO CONFIRM REQUIREMENTS.

SUBJECT TO LOCAL AUTHORITY & WATER AUTHORITY APPROVAL

10/03/2020	FIRST ISSUE	Revision	KRS	AE	1
Date		Drawn	Checked	Rev	
INFORMATION					
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Client: GLEESON HOMES					
Project: FELL VIEW DRIVE, EGREMENT					
Title: FORMATION LEVEL CUT & FILL DIRECT COMPARISON					
DO NOT SCALE	Scale @ A2: 1:250	Drawn: KRS	Checked: AE	Date: 10/03/2020	
Job No: 18184	Dep No: D601	Rev: 1			