

**BULK EARTHWORKS PLAN**

SCALE 1:200



### BULK EARTHWORKS GENERAL NOTES

REFER TO GEOTECHNICAL INVESTIGATION REPORT FOR INFORMATION RELATING TO EXISTING GROUND CONDITIONS, SITE TREATMENT AND SUPERVISION.

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM SURVEY AND AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE.

HENRY AND HYMAS PTY LTD CANNOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS, ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN ARISING FROM ANY CAUSE WHATSOEVER. CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION. FOR COMMENCEMENT OF WORKS ON SITE, SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.

ALL SERVICES ARE TO BE LOCATED AND CUT OFF PRIOR TO THE COMMENCEMENT OF EXCAVATION AND FILLING OPERATIONS.

ALL TOP SOIL, ORGANIC MATTER AND FILL MATERIAL SHALL BE REMOVED FROM ALL AREAS UNDER BUILDING AND CARPARK LOCATIONS TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER. AREAS TO BE FULLY STRIPPED OF EXISTING FILL AND DARK BROWN BLACK UPPER ORGANIC ALLUVIUM.

UPON COMPLETION OF STRIPPING AND PRIOR TO PLACEMENT OF FILL THE ENTIRE SITE SHALL BE PROOF ROLLED WITH A MINIMUM OF 6 PASSES OF A VIBRATOR PADFOOT ROLLER OF NOT LESS THEN 9 TONNE MINIMUM DEAD WEIGHT OR AS SPECIFIED IN THE GEOTECHNICAL REPORT. ANY SOFT OR HEAVING AREAS SHALL BE REMOVED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER TO A MINIMUM DEPTH OF 500mm AND THEN BACKFILLED WITH APPROVED MATERIAL IN 200mm THICK LOOSE LAYERS COMPACTED TO 98% OF STANDARD MAX. DRY DENSITY AND TO WITHIN +/- 2% OF STANDARD OPTIMUM MOISTURE CONTENT. APPROVED BACKFILL MATERIAL MAY BE CRUSHED ROCK OR SANDY LOAM WITH A PLASTICITY INDEX LESS THAN 15%.

IMPORTED FILLING:  
THE CONTRACTOR WILL IMPORT SUITABLE FILL FROM AN EXTERNAL SOURCE. EXCAVATION MATERIALS MEETING THE REQUIRED SPECIFICATION MAY BE USED AS FILL. THIS MAY INCLUDE RECYCLED MATERIALS IF THEY ARE SUITABLY BLENDED/CONDITIONED TO MEET MATERIALS SPECIFICATIONS.

### COMPACTION REQUIREMENTS

- PREPARATION FOR PAVEMENT:  
CLEAR SITE, STRIP TOP-SOIL, CUT AND FILL AND PREPARATIONS OF SUB-GRADE SHALL BE AS DESCRIBED IN " SUBGRADE PREPARATION".
- SUB-GRADE SHALL BE COMPACTED TO 98% STANDARD DRY DENSITY RATIO AT OPTIMUM MOISTURE CONTENT  $\pm 2\%$  IN ACCORDANCE WITH AS 1289 5.1.1., TOP 300MM TO 100% SDD.
- LOWER BASE COURSE SHALL BE CONSTRUCTED FROM CRUSHED SANDSTONE COMPACTED TO 100% STANDARD DRY DENSITY RATIO AT OPTIMUM MOISTURE CONTENT  $\pm 2\%$  IN ACCORDANCE WITH AS 1289 5.1.1. OF THICKNESS NOTED ON DRAWINGS.
- BASE COURSE SHALL BE CONSTRUCTED FROM FINE CRUSHED ROCK COMPACTED TO 100% STANDARD DRY DENSITY RATIO AT OPTIMUM MOISTURE CONTENT  $\pm 2\%$  IN ACCORDANCE WITH AS 1289 5.1.1 OF THICKNESS NOTED ON DRAWINGS.
- WEARING SURFACE SHALL BE ASPHALTIC CONCRETE TO STANDARD SPECIFICATION, MINIMUM THICKNESS = 30mm U.N.O.
- TESTING OF THE SUBGRADE AND PAVEMENT LAYERS SHALL BE CARRIED OUT BY APPROVED N.A.T.A. REGISTERED LABORATORY.

| DEPTH OF CUT & FILL RANGE |    |             |   | COLOUR |
|---------------------------|----|-------------|---|--------|
| LOWER VALUE               |    | UPPER VALUE |   |        |
| -10.0                     | to | -8.0        | m |        |
| -8.0                      | to | -6.0        | m |        |
| -6.0                      | to | -4.0        | m |        |
| -4.0                      | to | -3.0        | m |        |
| -3.0                      | to | -2.0        | m |        |
| -2.0                      | to | -1.5        | m |        |
| -1.5                      | to | -1.0        | m |        |
| -1.0                      | to | -0.75       | m |        |
| -0.75                     | to | -0.50       | m |        |
| -0.50                     | to | -0.25       | m |        |
| -0.25                     | to | 0.0         | m |        |
| 0.0                       | to | 0.25        | m |        |
| 0.25                      | to | 0.50        | m |        |
| 0.50                      | to | 0.75        | m |        |
| 0.75                      | to | 1.0         | m |        |
| 1.0                       | to | 1.5         | m |        |
| 1.5                       | to | 2.0         | m |        |
| 2.0                       | to | 3.0         | m |        |
| 3.0                       | to | 4.0         | m |        |
| 4.0                       | to | 6.0         | m |        |
| 6.0                       | to | 8.0         | m |        |
| 8.0                       | to | 10.0        | m |        |

### BULK EARTHWORKS QUANTITIES

| TOTAL AREA (2,670 m²)                                                                                                                                                 |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| CUT                                                                                                                                                                   | 10,489 m³ |
| FILL                                                                                                                                                                  | 55 m³     |
| EXCESS OF CUT OVER FILL                                                                                                                                               | 10,434 m³ |
| EXCAVATION FOR RETAINING WALLS NOT INCLUDED IN CALCULATION                                                                                                            |           |
| EXCAVATION FOR SERVICE TRENCHES NOT INCLUDED IN CALCULATION                                                                                                           |           |
| THE VOLUME SHOWN ABOVE HAS BEEN CALCULATED AFTER STRIPPING THE TOP SOIL OFF THE EXISTING SURFACE. TOP SOIL STRIPPING DEPTH 100mm. EXISTING TOPSOIL DEPTH TBC ON SITE. |           |

### PAVEMENT THICKNESS "INCLUDING BEDDING THICKNESS"

|                   |     |    |
|-------------------|-----|----|
| DRIVEWAY          | 250 | mm |
| BUILDING SLAB     | 250 | mm |
| FOOTPATH AREAS    | 150 | mm |
| LANDSCAPING AREAS | 100 | mm |

**FOR DA ONLY**

**SURVEY  
INFORMATION**  
SURVEYED BY  
CONSULTING SURVEYORS  
DENNY LINKER & CO.  
DATUM: A.H.D.

REVISION  
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AMENDMENT  
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Client  
**FRENCHMANS LODGE PROPERTIES PTY LTD**  
Architect  
**BOFFA ROBERTSON GROUP**

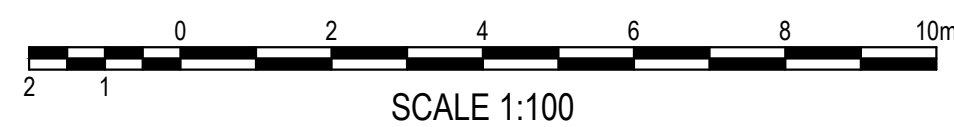
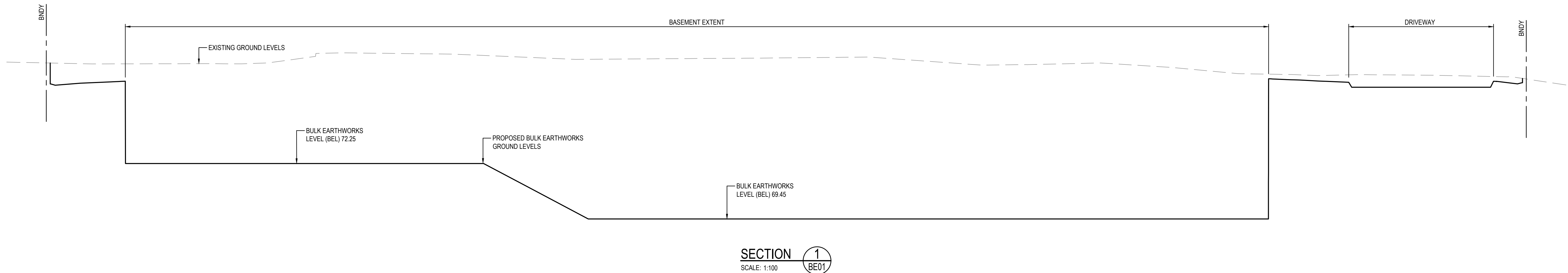
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Project  
**SUMMIT CARE  
11-19 FRENCHMANS ROAD, RANDWICK NSW**  
Title  
**BULK EARTHWORKS  
CUT/FILL PLAN**

Drawn  
B.Hurlstone  
Designed  
L.Villa  
Date  
DEC 2019  
Checked  
T.Rozehnal  
Approved  
A.Francis  
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