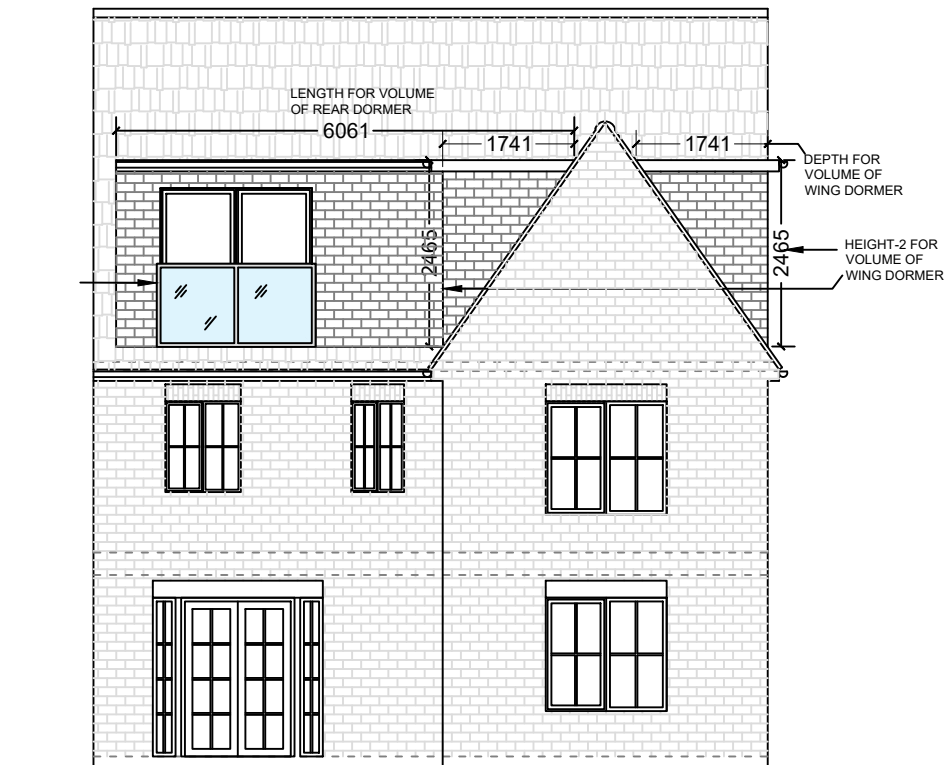PERMITTED DEVELOPMENT CALCULATION OF VOLUME OF HIP TO GABLE
FORMULA FOR HIP TO GABLE = 1/3 (BASE X HEIGHT)
VALUE OF BASE - AREA = 1/2 (LENGTH X DEPTH)
LENGTH - MEASURE ON SIDE ELEVATION FROM RIDGE OF NEW GABLE TO WHERE
IT MEETS THE BOTTOM OF THE ROOF
(I.e. WHERE THE ORIGINAL SIDE OF ROOF HAD ITS EAVES)
PUT VALUE OF BASE IN FORMULA FOR HIP TO GABLE
FORMULA FOR HIP TO GABLE - 1/3. (BASE X HEIGHT)
HEIGHT - MEASURE ON EXISTING FRONT ELEVATION DISTANCE FROM THE
EXISTING RIDGE (AT TOP OF HIP TO END OF THE RIDGE OF THE PROPOSED GABLE

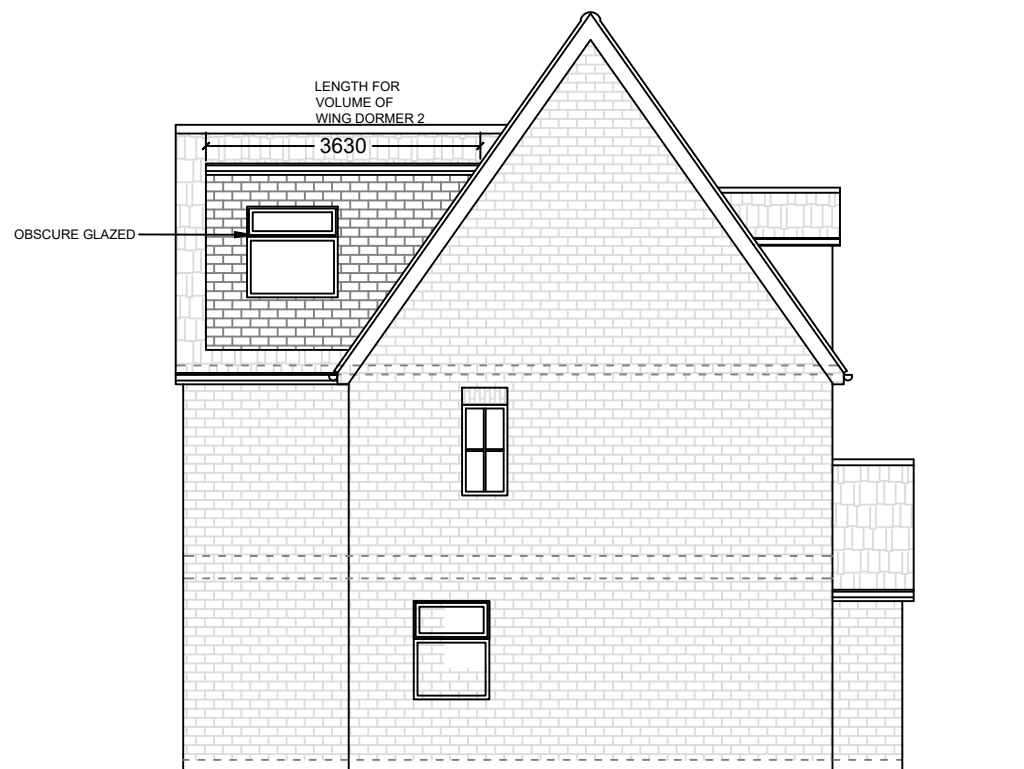| VOLUME OF REAR DORMER | = 1/2 . (LENGTH X HEIGHT X DEPTH) |
| | = 1/2. (6.061 X 2.470 X 1.741) |
| VOLUME OF REAR DORMER | = 13.031 CUBIC METERS |

VOLUME OF WING DORMER	= (LENGTH X DEPTH X HEIGHT-1)
	= (1.889 X 1.741 X 2.465)
	= 8.106
	= (LENGTH X DEPTH X HEIGHT-2) /2
	= 3.630 X 1.741 X 2.465 / 2
	= 7.789
	= 8.106 + 7.789
	= 15.895

THEREFORE 13.031 + 15.895= 28.926

TOTAL VOLUME = 28.926 CUBIC METERS

LENGTH FOR VOLUME
OF REAR DORMER
6061
1741
1741
DEPTH FOR
VOLUME OF
WING DORMER
2465
2465
HEIGHT-2 FOR
VOLUME OF
WING DORMER

16 PROPOSED REAR ELEVATION
SCALE 1:100

LENGTH FOR
VOLUME OF
WING DORMER 2
3630
OBSCURE GLAZED

17 PROPOSED L.H SIDE ELEVATION
SCALE 1:100

DEPTH FOR VOLUME
OF REAR DORMER
LENGTH FOR
VOLUME OF
WING DORMER
1741
1889
OBSCURE GLAZED
HEIGHT FOR
VOLUME OF REAR
DORMER
2470
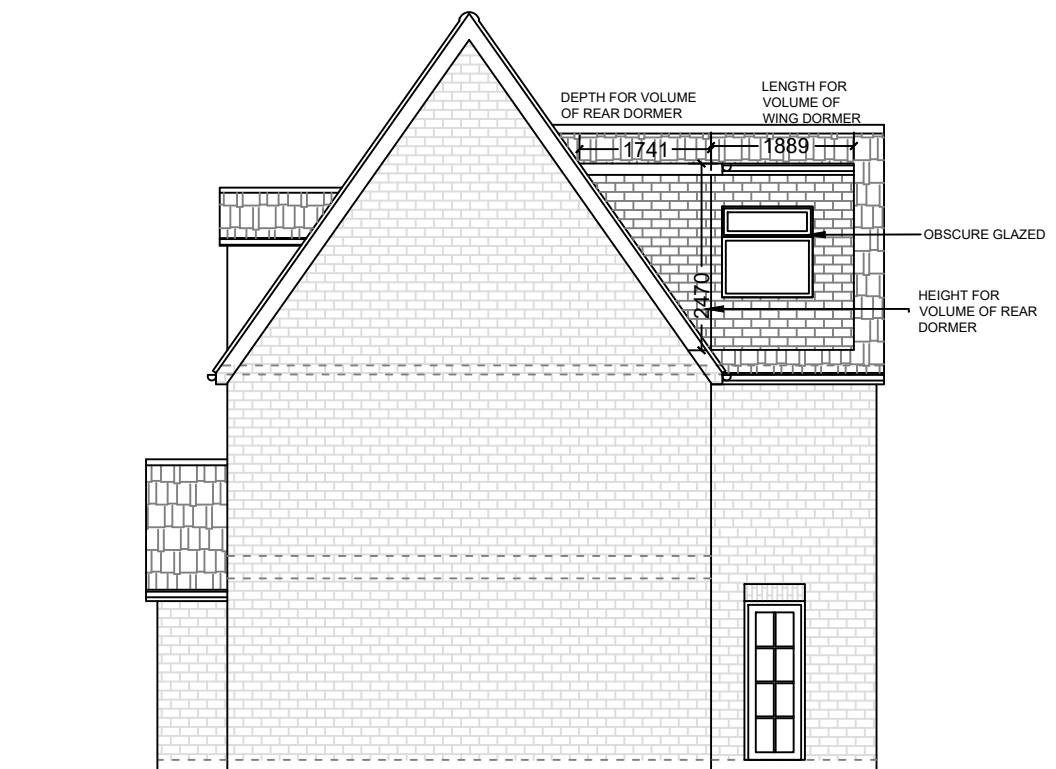
15 PROPOSED R.H SIDE ELEVATION
SCALE 1:100

THE AVENUE GROUP

DRAWING TITLE:
CALCULATION

PROJECT LOCATION:
16 Nimrod Dr, Hatfield AL10 9LS, UK

DATE:
APRIL 2022

DRAWING NO:
16NDHA 11 A

SCALE:
1:100 @ A3

0 1 2 3 4 5 m

N