

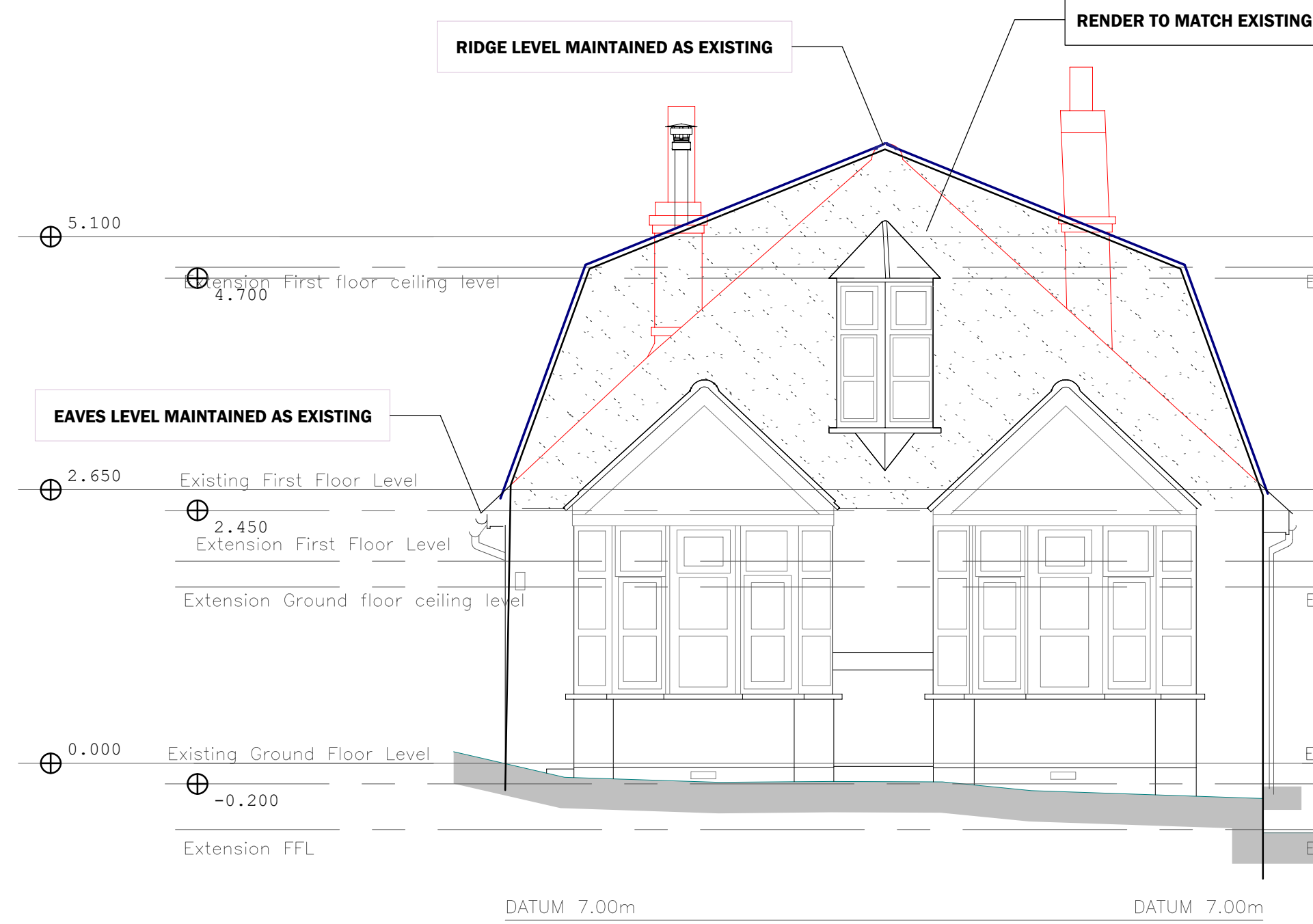
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Mansard roof additional volume calculation:
 Lower section of Mansard-Pitch 70 degrees
 Mansard length=7.670m
 Projection at knuckle=1.175m
 Rafter length, wallplate to knuckle=2.056m
 Volume calc= $7.670 \times 2.056 \times 1.175 = 18.530 / 2 = 9.264 \text{cu m}$

Upper section of Mansard-Pitch 22 degrees
 Mansard length=7.670m
 Projection at knuckle=1.175m
 Rafter length, wallplate to knuckle=2.784m
 Volume calc= $7.670 \times 2.784 \times 1.175 = 25.090 / 2 = 12.545 \text{cu m}$

Therefore additional volume added to existing roof= $9.264 + 12.545 = 21.809 \text{cu m}$ per side
 Total additional volume= $21.809 \times 2 \text{ sides} = 43.618 \text{cu m}$

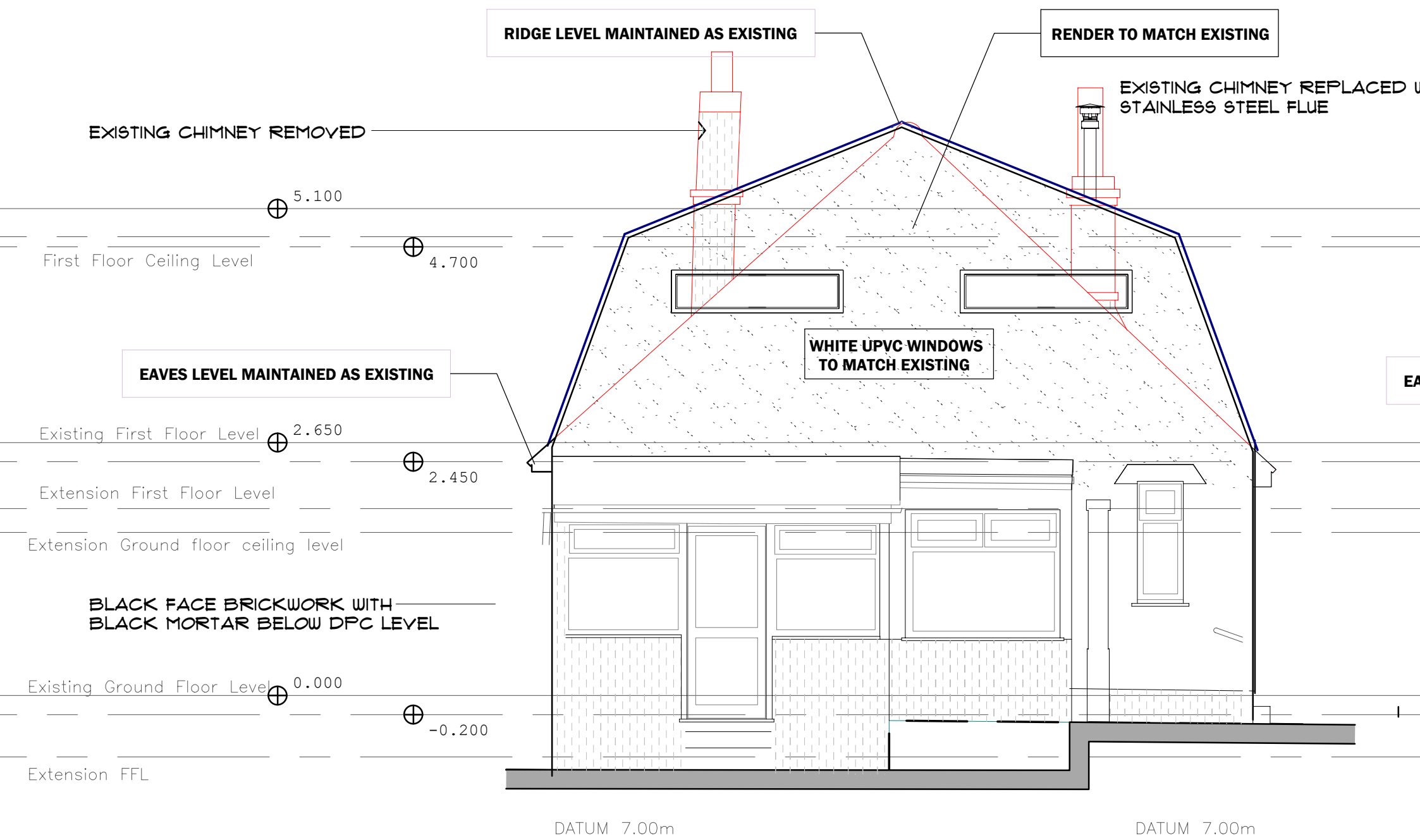
Allowance=50cu m
 Therefore proposed increase=87.23% of allowance



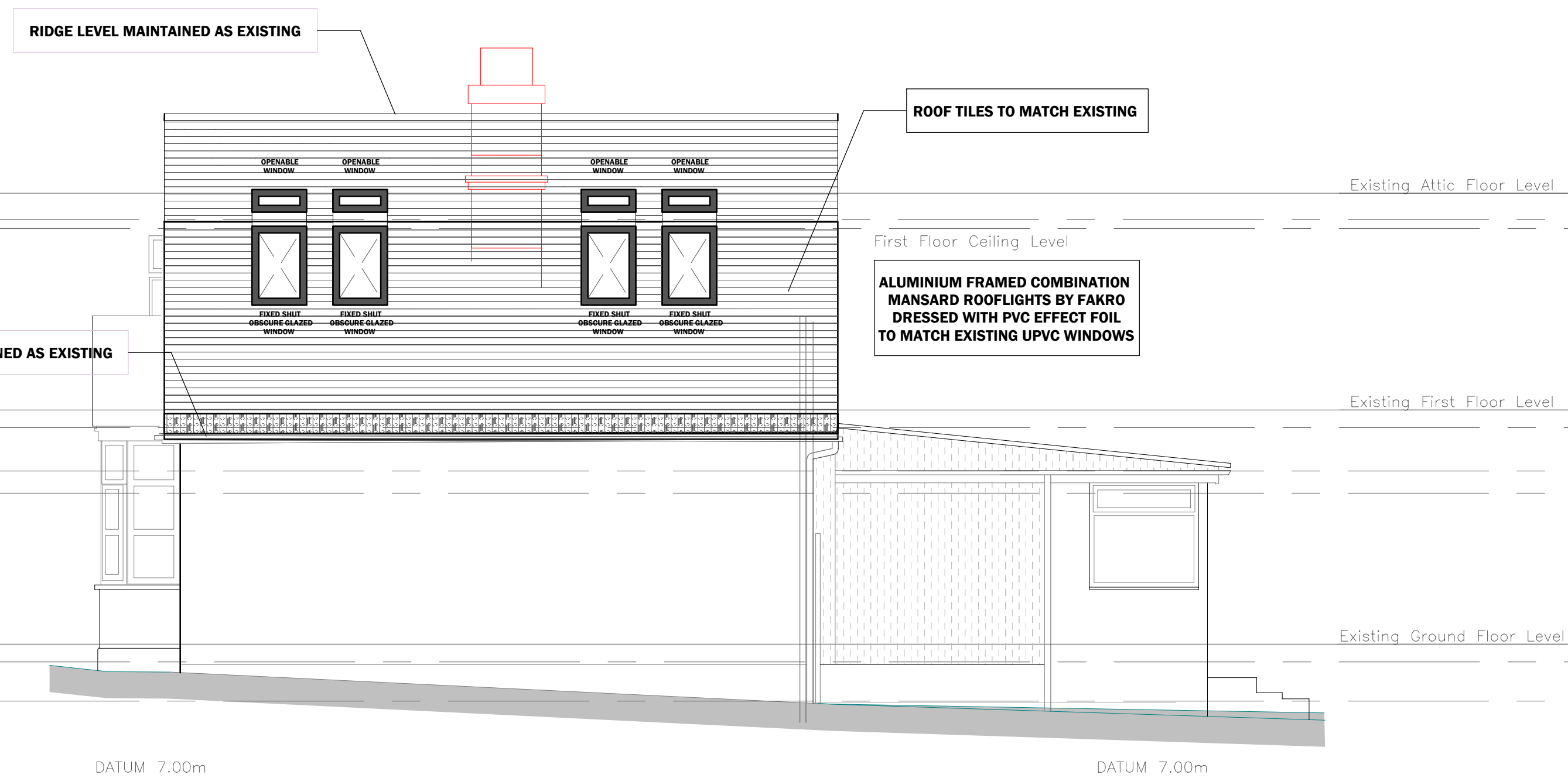
PROPOSED FRONT ELEVATION



PROPOSED LEFT SIDE ELEVATION



PROPOSED REAR ELEVATION



PROPOSED RIGHT SIDE ELEVATION



Rev	Description	Date
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Project title:

**5 BOUNDARY ROAD,
 BISHOP'S STORTFORD,
 HERTS
 CM23 5LE**

Drawing title:

PROPOSED ELEVATIONS

Date: FEB 2022	Project No: 596
Scale: 1:50 @ A1	Drawing No: PL. 002F



01279 933039 | 0207 1183039

01438 530039 | 01787 738988

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