

60° FIELD OF VIEW: SEASON
VIEWPOINT 28 - WESTWAY

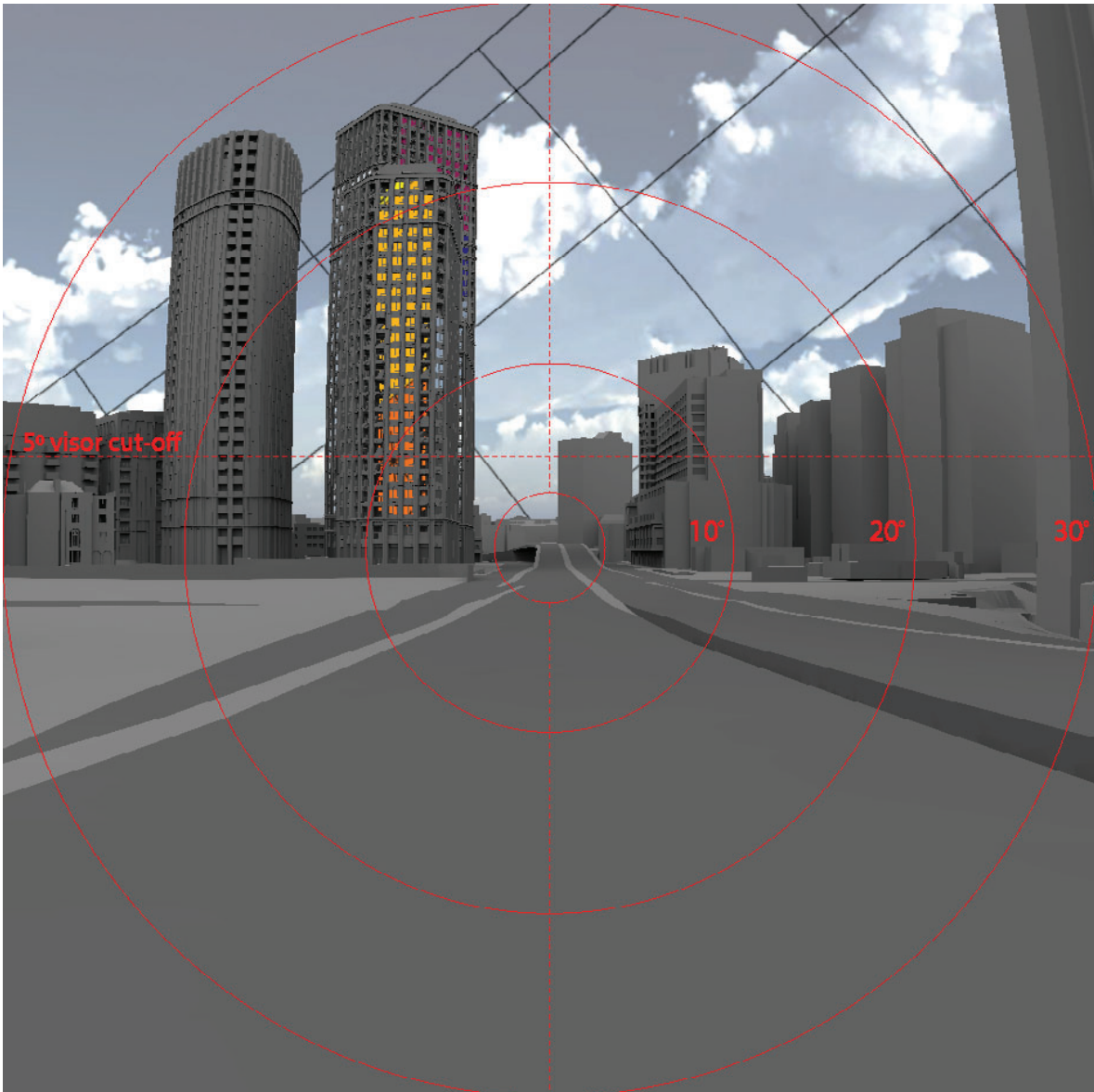


Fig. 78: Solar reflections



60° FIELD OF VIEW: TIME OF DAY
VIEWPOINT 29 - WESTWAY

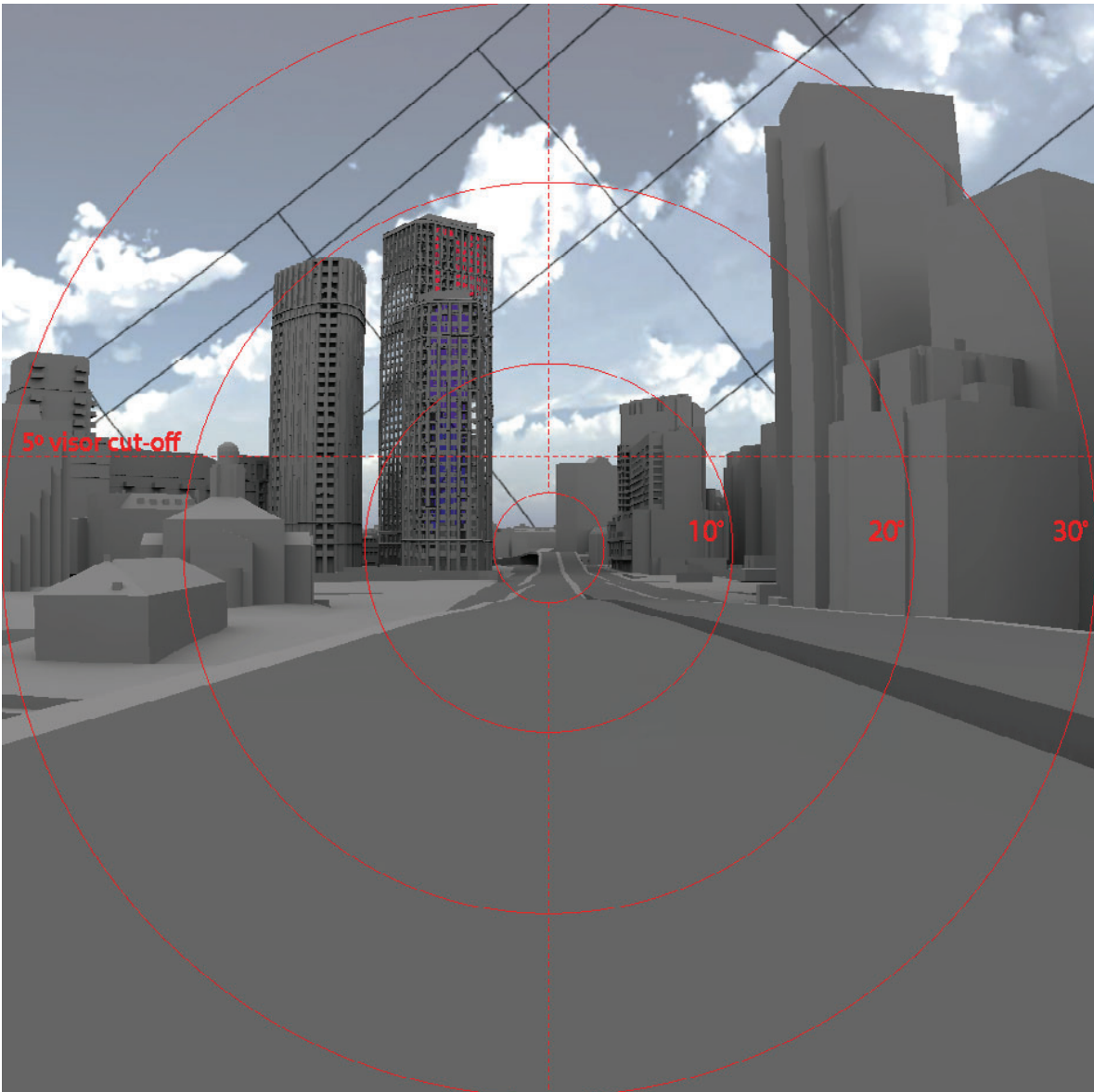


Fig. 79: Solar reflections



60° FIELD OF VIEW: SEASON
VIEWPOINT 29 - WESTWAY

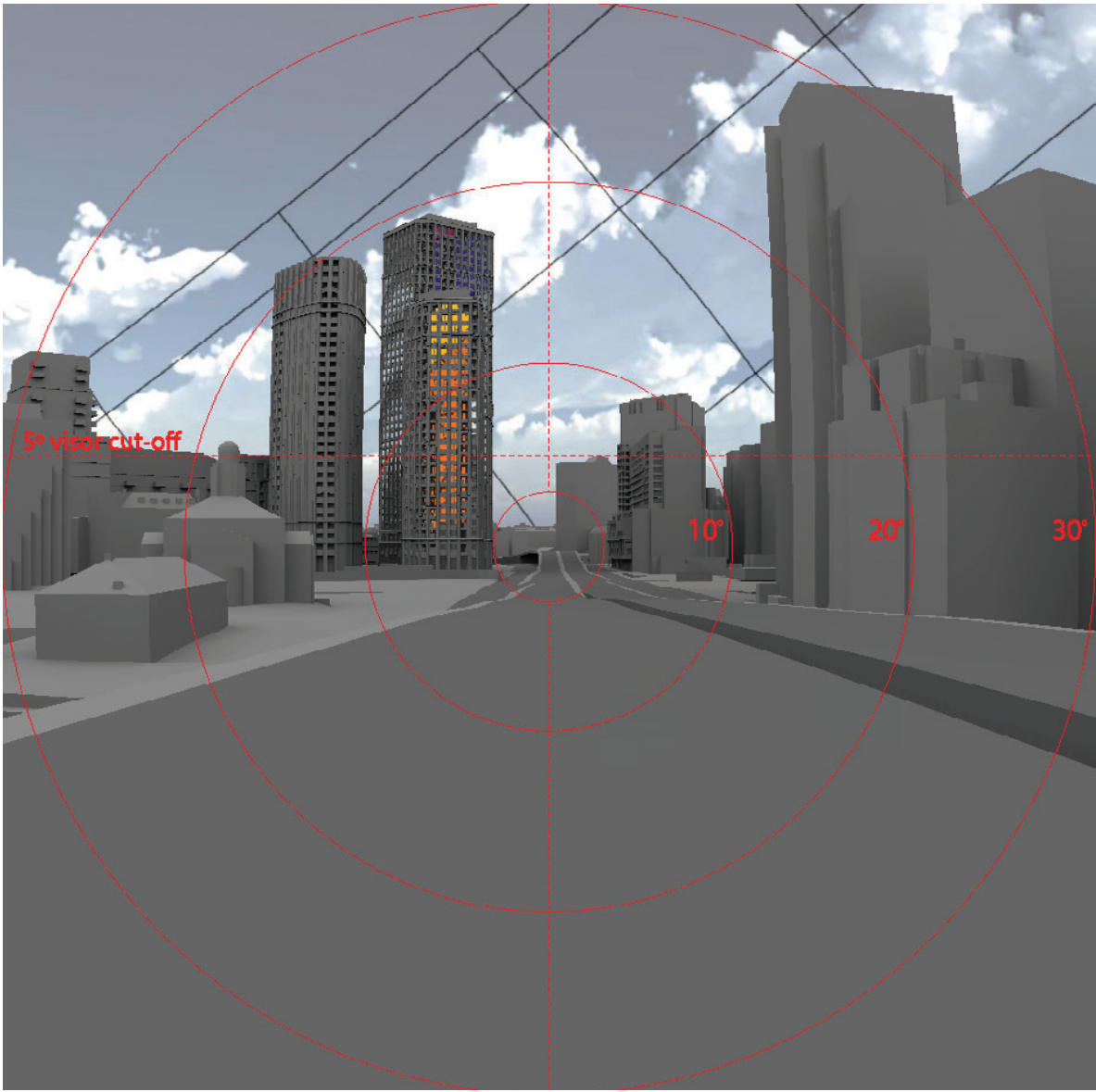


Fig. 80: Solar reflections



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Technical Appendix 10.7(R): Daylight and Sunlight Assessment (West End Gate and Merchant Square)



DAYLIGHT & SUNLIGHT

IMPACTS ON WEST END GATE, 14-17
PADDINGTON GREEN & MERCHANT
SQUARE

Paddington Green Police Station

17 November 2022

GIA No: **15876**



PROJECT DATA:

Client **Berkeley Homes Limited**
Project Title **Paddington Green Police Station**
Project Number **15876**

REPORT DATA:

Report Title **Impacts on West End Gate, 14-17 Paddington Green & Merchant Square**
GIA Department **Daylight & Sunlight**
Dated **17 November 2022**

Prepared by **KST**
Checked by **KST**
Type **Appendix**

Revisions	No:	Date:	Notes:	Signed:

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Issue Number **25**
Site Photos **GIA**
3D models **VERTEX**
OS Data **FIND Maps**



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CONTENTS

1 ASSUMPTIONS & METHODOLOGY 2

2 DAYLIGHT AND SUNLIGHT IMPACTS
EXISTING BASELINE v PROPOSED 4

3 DAYLIGHT AND SUNLIGHT IMPACTS
2030 BASELINE v PROPOSED 42

4 DAYLIGHT AND SUNLIGHT IMPACTS
2030 BASELINE v CUMULATIVE 84

5 DAYLIGHT AND SUNLIGHT IMPACTS
2030 BASELINE v CUMULATIVE 122

1 ASSUMPTIONS & METHODOLOGY

In order to undertake the daylight and sunlight assessments set out in the following pages, we have prepared a three dimensional computer model and used specialist lighting simulation software, Radiance.

The three dimensional model of the proposed development has been modelled using the scheme drawings and model provided to us by Squire & Partners. This has been placed in the context of its surrounding buildings which have been modelled from photogrammetric survey, Ordnance Survey maps and aerial photographs.

Within the three dimensional model above, windows were then modelled within the relevant neighbouring properties with reference to:

- drawings obtained from the London Borough of Westminster planning portal.

Materials utilised within the ADF analysis were:

Internal Floors (WEG Living Rooms) - 0.4

Internal Floors (WEG Bedrooms & MS) - 0.3

Internal Walls - 0.68

Internal Ceilings - 0.85

Surroundings - 0.2

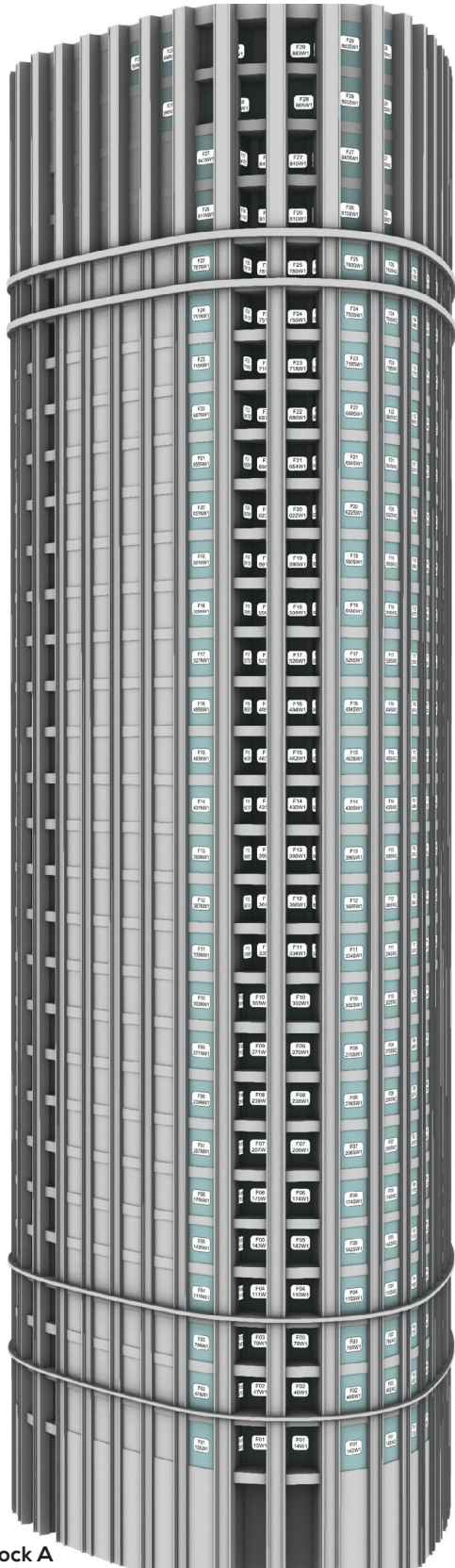
Merchant Square Glazing - 0.55* (This is clear low-e double glazing with a Tvis of 0.75).

West End Gate Glazing - 0.50* (This is based on the project Tvis of 0.68).

*Glazing transmittances the include the following maintenance factors drawn from BS 8206-2:2008, Annex A, tables A.1-A.6:

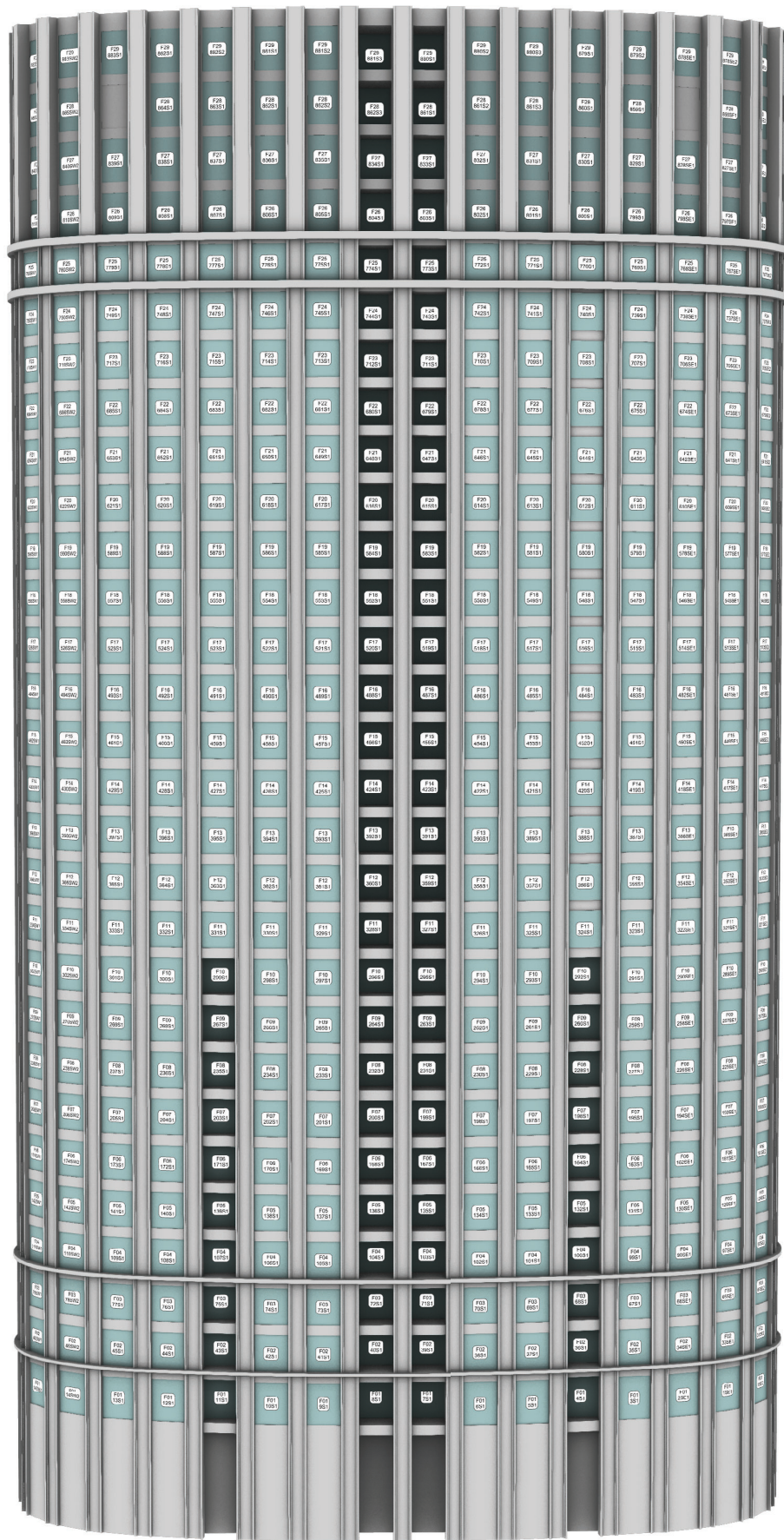
- A.3 - 8
- A.4 - 1
- A.5 - 1
- A.6 - 0.8

2 DAYLIGHT AND SUNLIGHT IMPACTS
EXISTING BASELINE v PROPOSED
West End Gate Blocks A & B

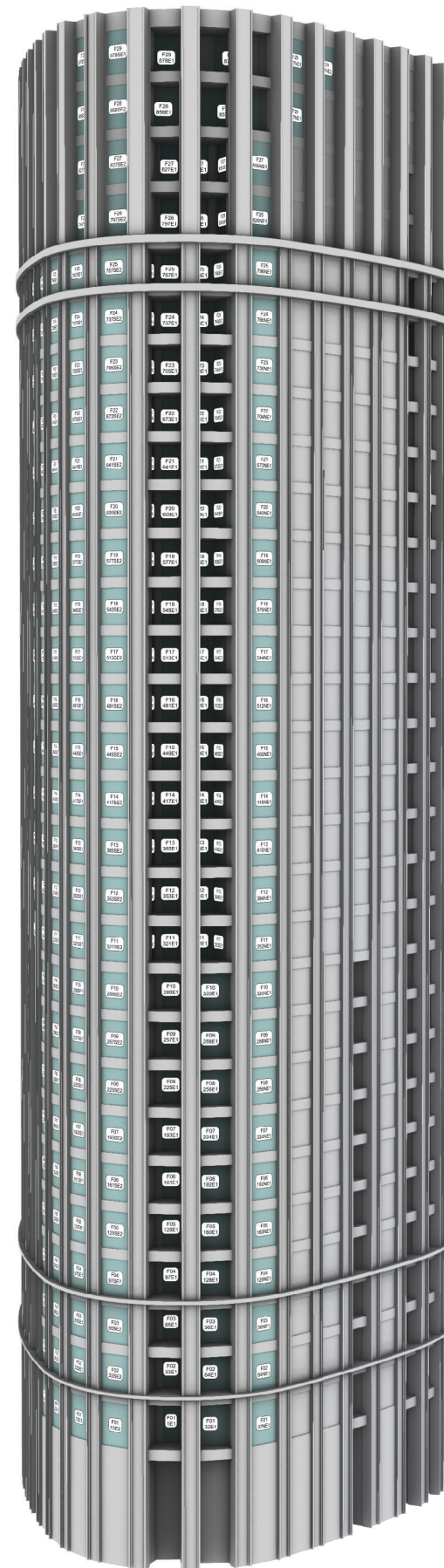


Block A
Western Elevation

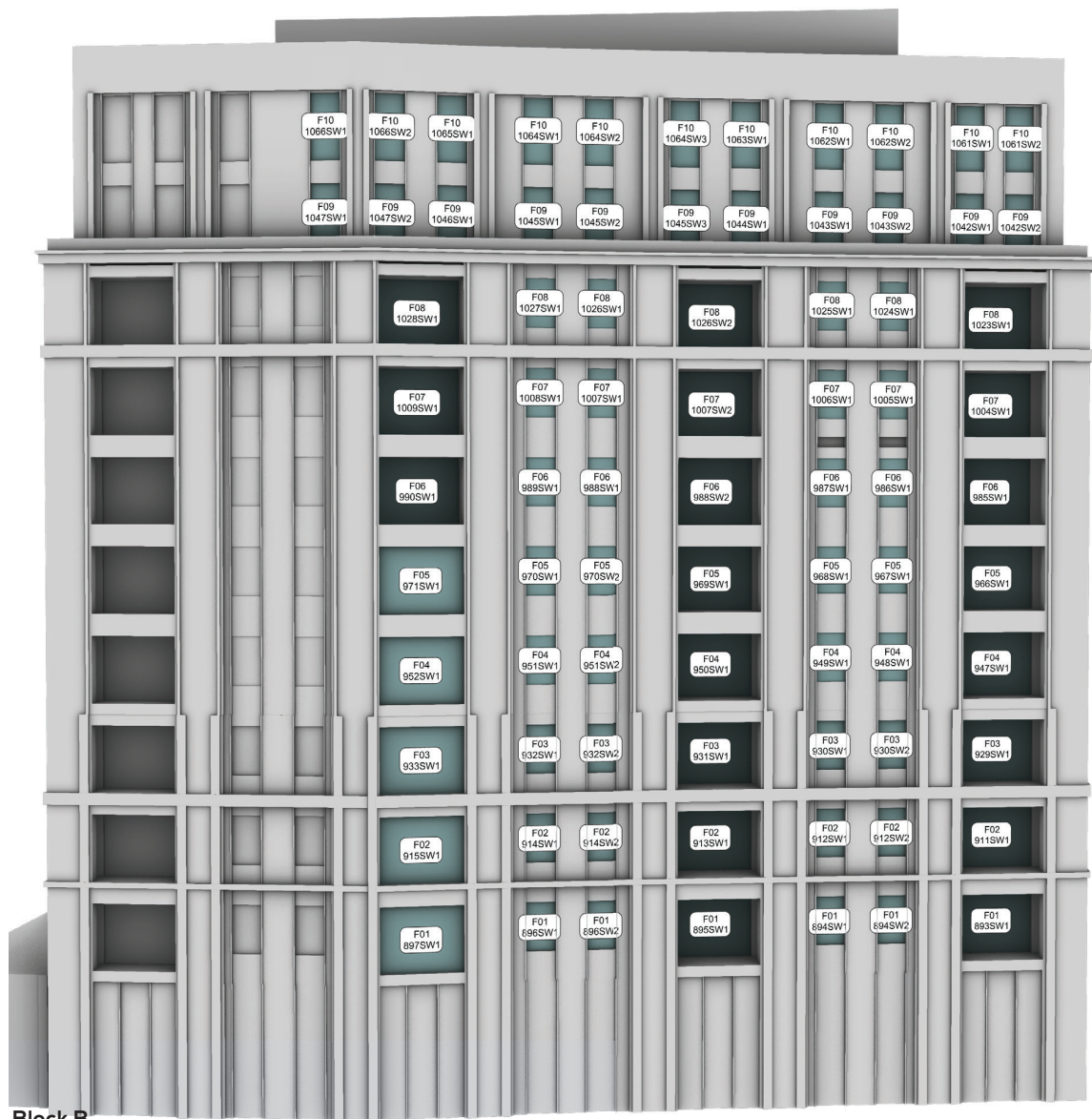




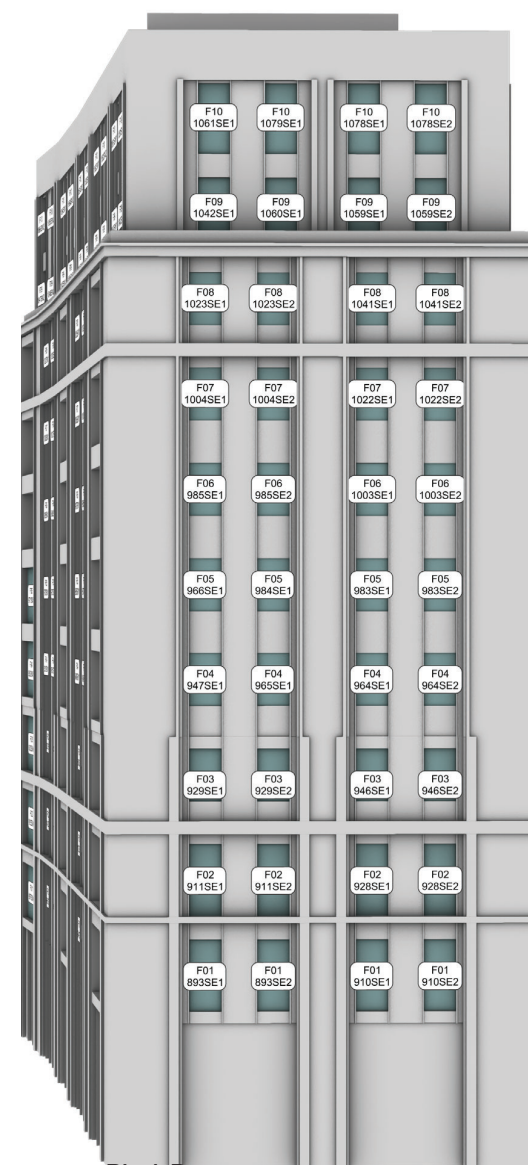
Block A
Southern Elevation



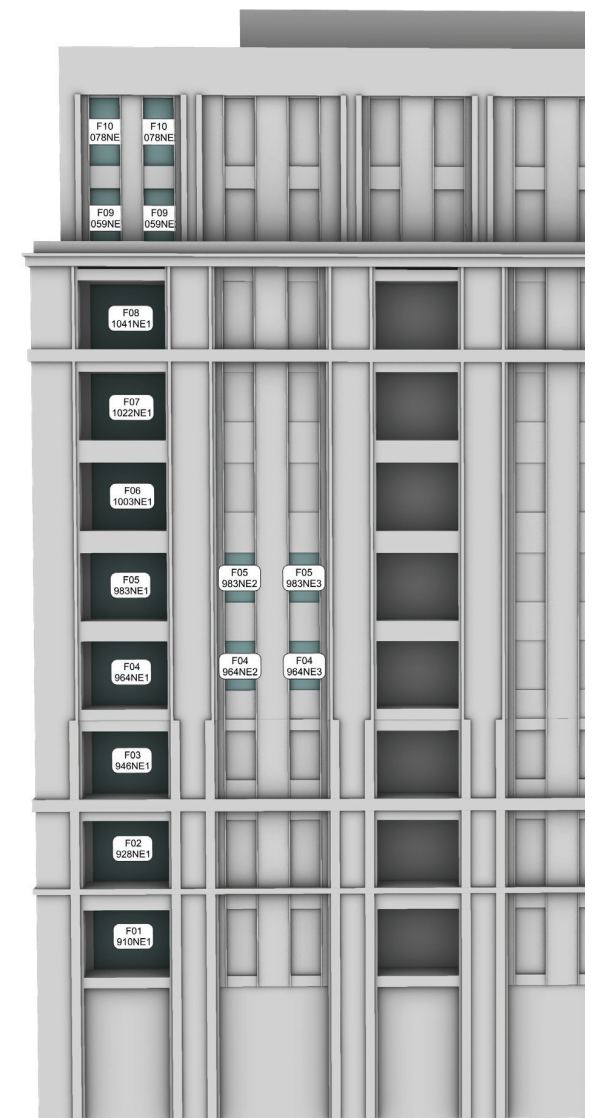
Block A
Eastern Elevation



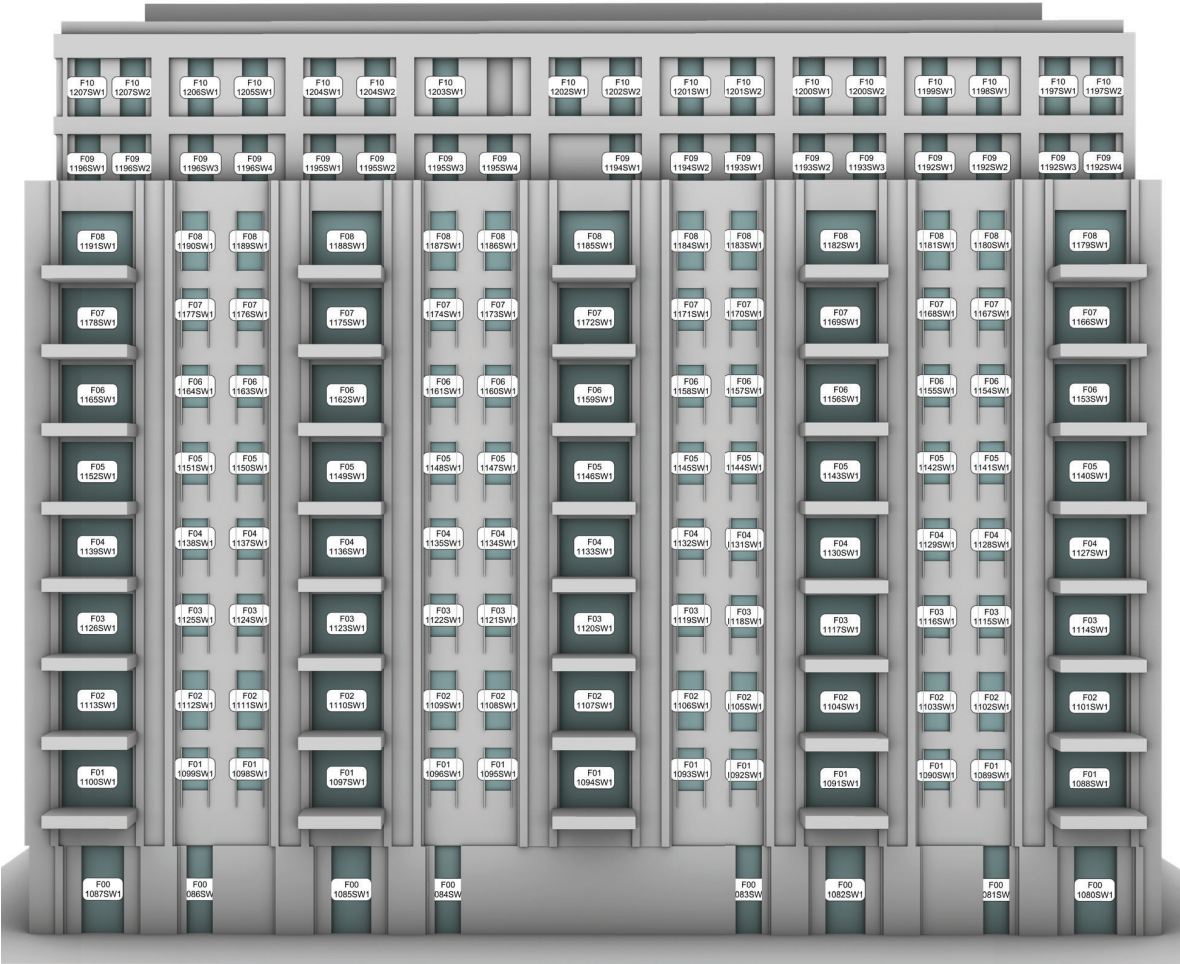
Block B
Western Elevation



Block B
Southern Elevation



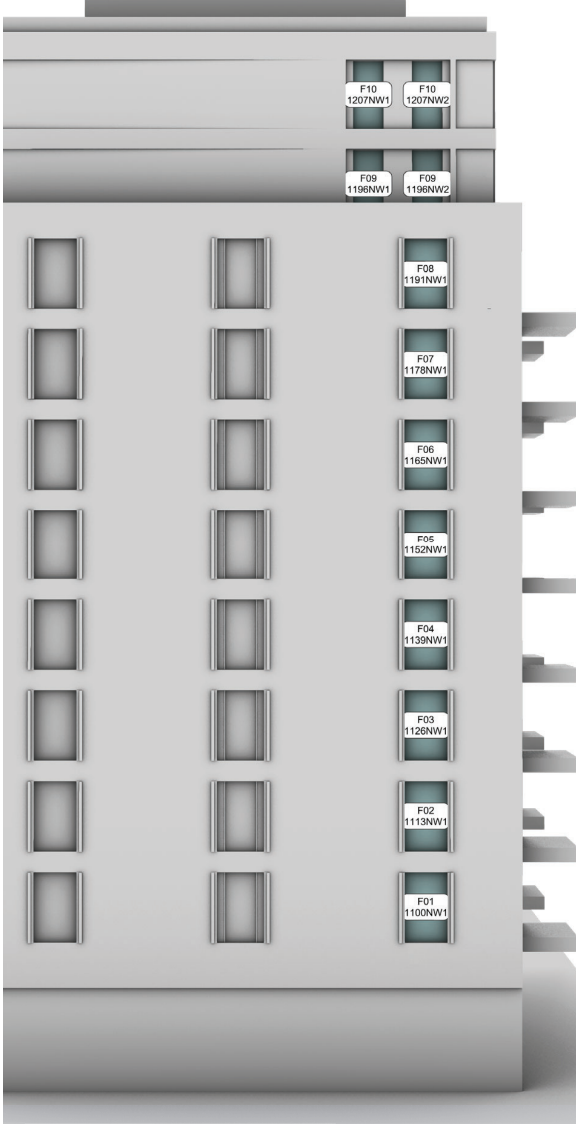
Block B
Eastern Elevation



Block C
Western Elevation



Block C
Southern Elevation



Block C
Northern Elevation