



CHRISTCHURCH CITY COUNCIL  
OLD MUNICIPAL CHAMBERS  
FULL RESTORATION  
DEVELOPED DESIGN

**STRUCTURAL DRAWINGS**

NOT FOR CONSTRUCTION  
04/04/2017

**Project No:** 6-DP315.20



**Opus International Consultants Ltd**

Christchurch Office

12 Moorhouse Avenue  
PO Box 1482, Christchurch Mail Centre, Christchurch 8140  
New Zealand

Tel: +64 3 363 5400

[www.opus.co.nz](http://www.opus.co.nz)

PROJECT No.	<b>6-DP315.20</b>
TASK No.	<b>STRU1</b>
SHEET No.	<b>1</b>

DRAWING ISSUE REGISTER		DATE OF ISSUE													
PROJECT TITLE:		DAY	24	24	04										
<b>CHRISTCHURCH CITY COUNCIL</b>		MONTH	02	03	04										
<b>OLD MUNICIPAL CHAMBERS - FULL RESTORATION</b>		YEAR	17	17	17										
<b>DEVELOPED DESIGN - STRUCTURAL</b>		CHKD													

DRAWING No.	SIZE	DRAWING TITLE	REVISION		
S001	A1	INDEX	A	B	B
S100	A1	FOUNDATIONS LAYOUT	A	B	B
S101	A1	GROUND FLOOR	A	B	B
S102	A1	FIRST FLOOR	A	B	C
S103	A1	SECOND FLOOR	A	B	C
S104	A1	SECOND FLOOR CEILING	A	B	C
S105	A1	ROOF	A	B	C
S200	A1	CROSS SECTIONS 1	A	B	C
S201	A1	CROSS SECTIONS 2	A	B	C
S202	A1	CROSS SECTIONS 3	A	B	B
S203	A1	CROSS SECTIONS 4	A	B	C
S204	A1	CROSS SECTIONS 5	A	B	C
S205	A1	CROSS SECTIONS 6	A	B	C
S206	A1	CROSS SECTIONS 7	A	B	B
S207	A1	CROSS SECTIONS 8	A	B	C
S300	A1	FOUNDATION DETAILS	*	B	C
S400	A1	TURRET DETAILS	A	B	B
S500	A1	TIMBER DETAILS AND SCHEDULES	*	B	C
S600	A1	CHAMBER ROOF DETAILS AND STEELWORK SCHEDULES	*	B	C
S700	A1	CONCRETE SHEAR WALL DETAILS AND SCHEDULES	*	B	B
		* NOTE: THESE SHEETS WERE ISSUED AS HAND DRAWN SKETCHES.			

DISTRIBUTION			No. OF COPIES ISSUED		
Client:	CHRISTCHURCH CITY COUNCIL		1	1	1
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Contractor:					
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Project/Cost Manager:	JOSEPH AND ASSOCIATES		1	1	1
Geotechnical:					
Sustainability consultant:					
Environmental consultant:					
CDM Co-ordinator:					
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APPROVED BY :	W. PARKER				

DO NOT SCALE  
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 ALL STRUCTURAL DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, CIVIL, FIRE, MECHANICAL & ELECTRICAL DRAWINGS.

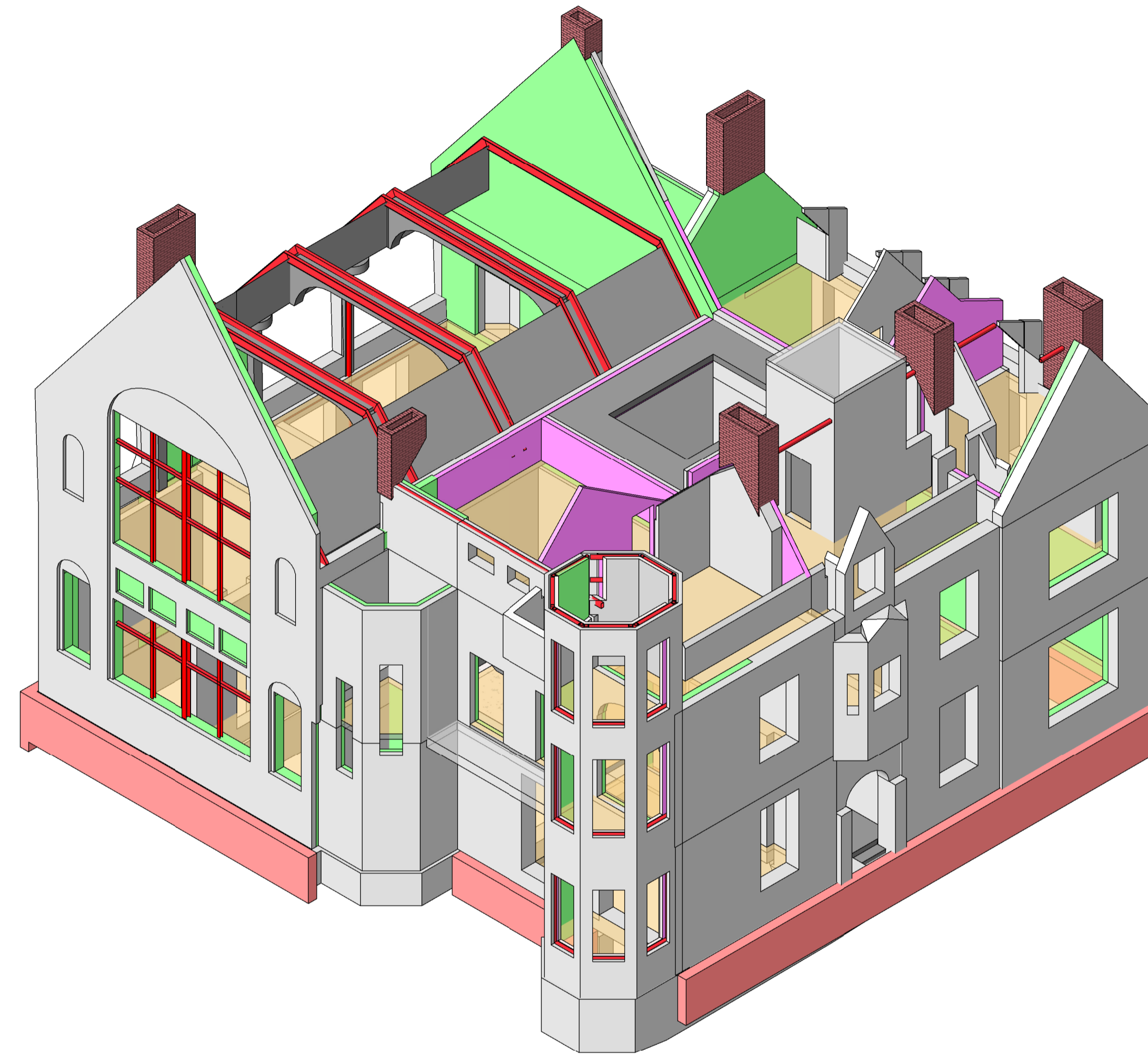
**NOT FOR CONSTRUCTION**

REVISIONS		
B	ISSUED FOR INFORMATION	24/03/2017
A	ISSUED FOR PRICING	24/02/2017

**NOTES**

1. ALL DIMENSIONS TO BE CONFIRMED ON SITE

DRAWING INDEX	
SHEET NO.	SHEET NAME
S001	INDEX
S100	FOUNDATIONS LAYOUT
S101	GROUND FLOOR
S102	FIRST FLOOR
S103	SECOND FLOOR
S104	SECOND FLOOR CEILING
S105	ROOF
S200	CROSS SECTIONS
S201	CROSS SECTIONS
S202	CROSS SECTIONS
S203	CROSS SECTIONS
S204	CROSS SECTIONS
S205	CROSS SECTIONS
S206	CROSS SECTIONS
S207	CROSS SECTIONS
S300	FOUNDATION DETAILS
S400	TURRET DETAILS
S500	TIMBER DETAILS & SCHEDULES
S600	CHAMBER ROOF DETAILS & STEELWORK SCHEDULES
S700	CONCRETE SHEAR WALL DETAILS & SCHEDULES



**OLD MUNICIPAL CHAMBERS**  
 Repairs, Reconstruction & Restoration

Project  
**FULL RESTORATION  
 DEVELOPED DESIGN**

Sheet Name  
**INDEX**

Scale			
SCALE @ A1= N.T.S.			
Design	SPT	Verified	SO
Drawn	SEH	Approved	WRP
Project No.	6-DP315.20	Issue Date	24/03/2017
Revision	B	Sheet No.	S001

**STRUCTURAL**



- LEGEND**
- NEW CONCRETE FOUNDATION. REFER TO THE FOUNDATION SCHEDULE AND TYPICAL FOUNDATION DETAIL ON S300
  - EXISTING FOUNDATIONS. TYPICALLY 500mm WIDE, DEPTH VARIES

- NOTE**
- CF = NEW CONCRETE FOUNDATION
  - CW = NEW CONCRETE WALL
  - C = NEW STEEL COLUMN
  - B = NEW STEEL BEAM
  - TW = NEW TIMBER WALL

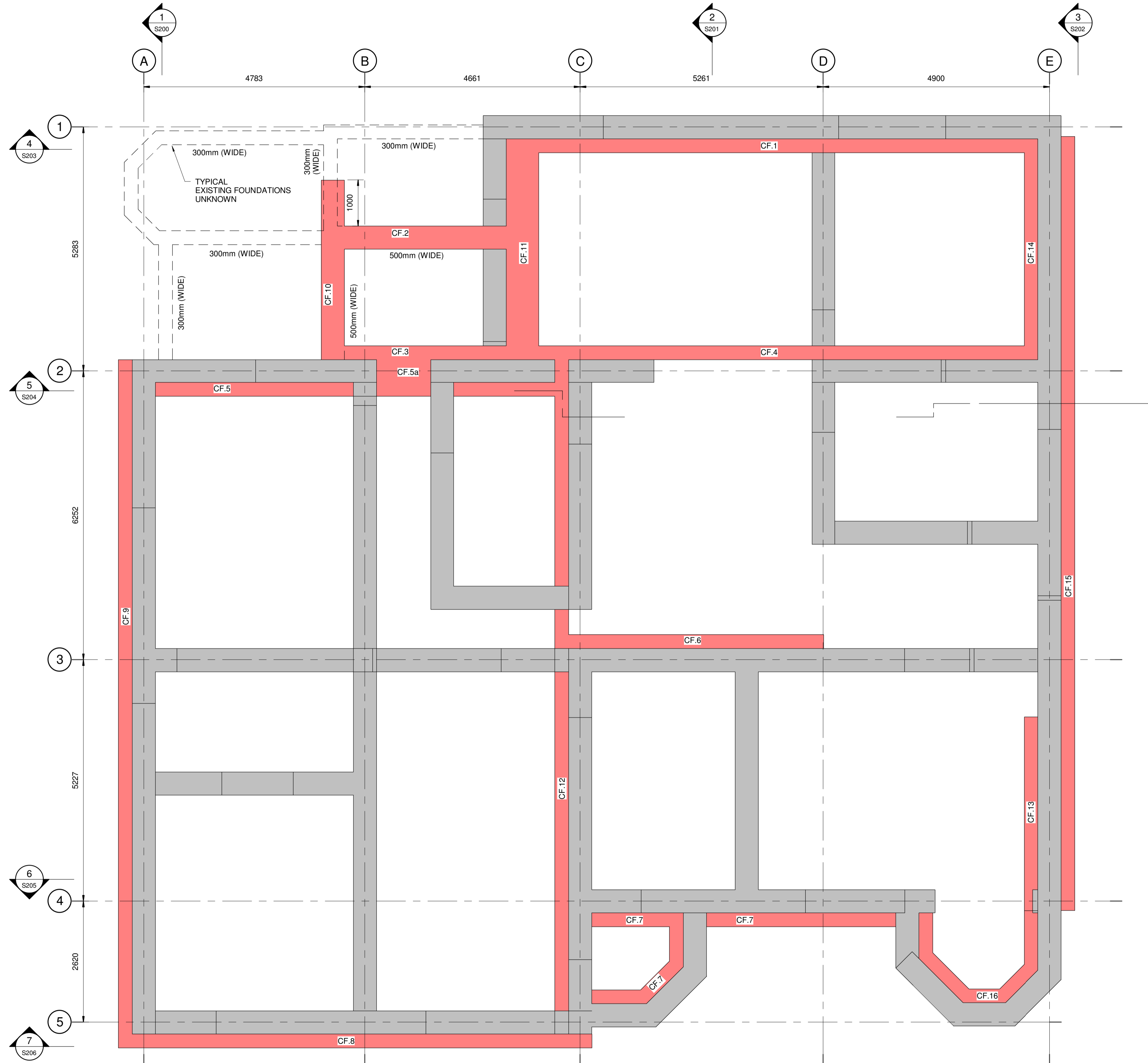
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**NOT FOR CONSTRUCTION**

REVISIONS		
B	ISSUED FOR INFORMATION	24/03/2017
A	ISSUED FOR PRICING	24/02/2017

**NOTES**

1. ALL DIMENSIONS TO BE CONFIRMED ON SITE
2. ALL GRIDLINES ARE SET BASED ON ARCHITECTS MODEL
3. REFER TO SHEET S700 FOR CONCRETE SHEAR WALL SCHEDULE AND DETAILS
4. REFER TO SHEET S600 FOR STEELWORK SCHEDULES AND DETAILS
5. REFER TO SHEET S500 FOR TIMBER DIAPHRAGM SCHEDULE AND DETAILS
6. ALL EXISTING BRICK PILES ARE TO BE REPLACED WITH TIMBER ORDINARY PILES IN ACCORDANCE WITH NZS3604



**OLD MUNICIPAL CHAMBERS**  
 Repairs, Reconstruction & Restoration

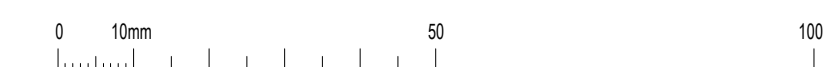
Project  
**FULL RESTORATION**  
 DEVELOPED DESIGN

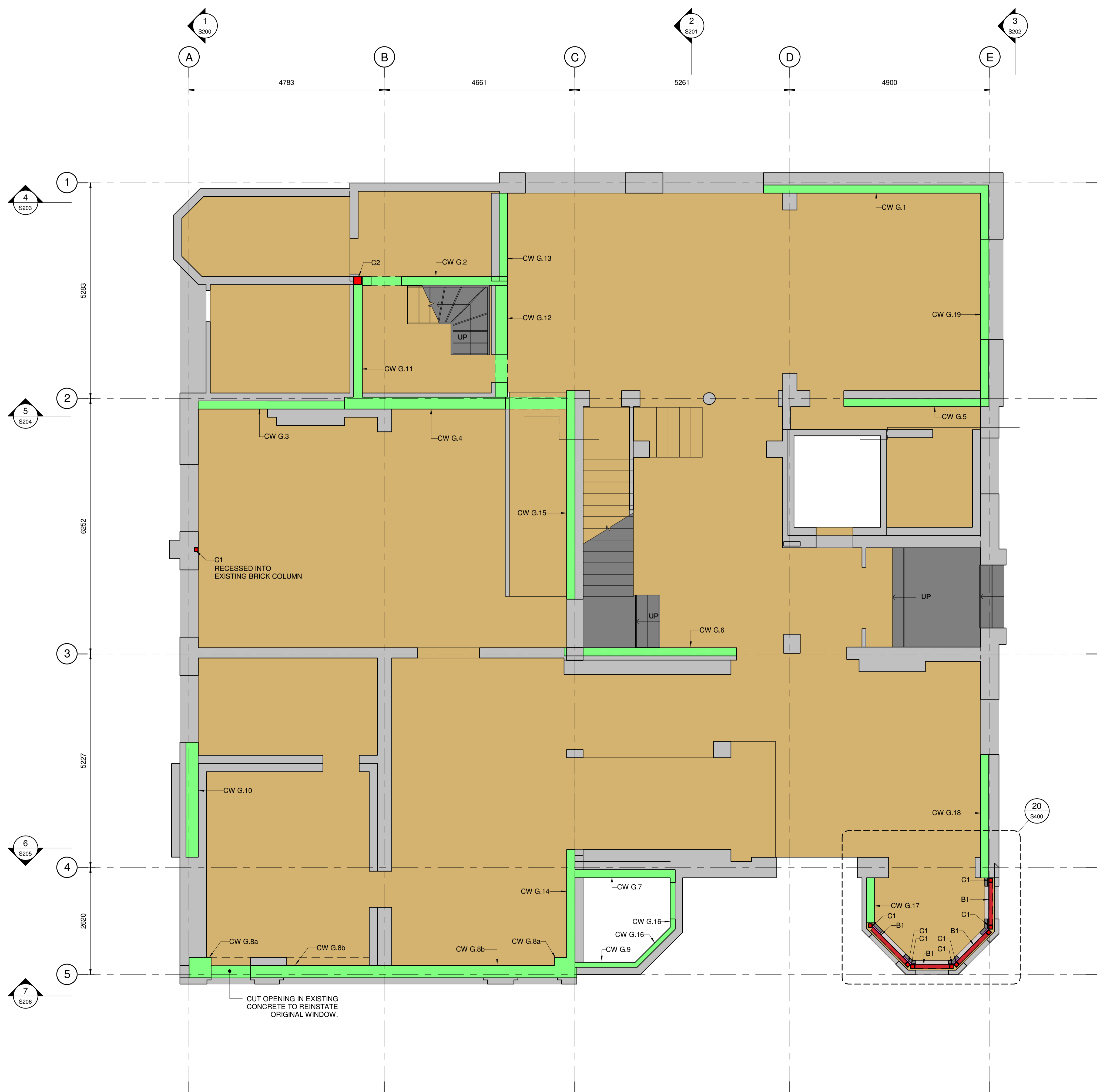
Sheet Name  
**FOUNDATIONS LAYOUT**

Scale  
**SCALE @ A1= 1 : 50**

Design	SPT	Verified	SO
Drawn	SEH	Approved	WRP
Project No.	6-DP315.20	Issue Date	24/03/2017
Revision	B	Sheet No.	S100

**STRUCTURAL**





- LEGEND**
- NEW CONCRETE WALLS. REFER TO THE SHEAR WALL SCHEDULE AND TYPICAL SHEAR WALL DETAIL ON S700
  - EXISTING WALLS WIDTH VARIES
  - NEW STEEL ELEMENTS. REFER TO SHEET S600.

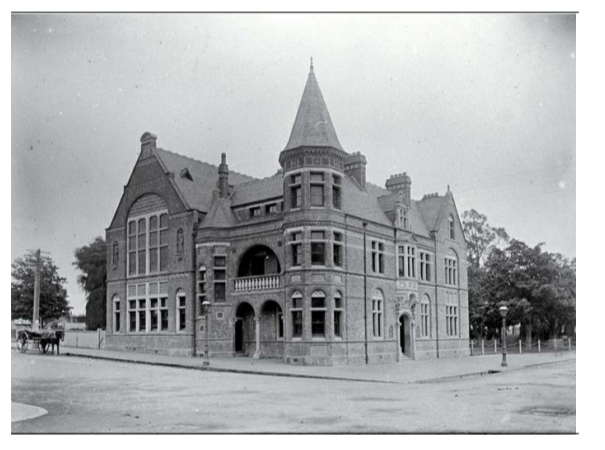
- NOTE**
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  - CW = NEW CONCRETE WALL
  - C = NEW STEEL COLUMN
  - B = NEW STEEL BEAM
  - TW = NEW TIMBER WALL

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REVISIONS		
B	ISSUED FOR INFORMATION	24/03/2017
A	ISSUED FOR PRICING	24/02/2017

- NOTES**
1. ALL DIMENSIONS TO BE CONFIRMED ON SITE
  2. ALL GRIDLINES ARE SET BASED ON ARCHITECTS MODEL
  3. REFER TO SHEET S700 FOR CONCRETE SHEAR WALL SCHEDULE AND DETAILS
  4. REFER TO SHEET S600 FOR STEELWORK SCHEDULES AND DETAILS
  5. REFER TO SHEET S500 FOR TIMBER DIAPHRAGM SCHEDULE AND DETAILS



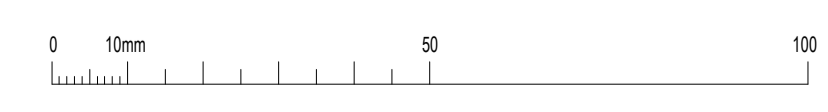
**OLD MUNICIPAL CHAMBERS**  
 Repairs, Reconstruction & Restoration

Project  
**FULL RESTORATION DEVELOPED DESIGN**  
 Sheet Name  
**GROUND FLOOR**

Scale  
**SCALE @ A1= 1 : 50**

Design	SPT	Verified	SO
Drawn	SEH	Approved	WRP
Project No.	6-DP315.20	Issue Date	24/03/2017
Revision	B	Sheet No.	S101

**STRUCTURAL**





- LEGEND**
- NEW CONCRETE WALLS. REFER TO THE SHEAR WALL SCHEDULE AND TYPICAL SHEAR WALL DETAIL ON S700
  - EXISTING WALLS WIDTH VARIES
  - NEW STEEL ELEMENTS. REFER TO SHEET S500 & S600.
  - NEW PLYWOOD DIAPHRAGM FIXED TO UNDERSIDE OF FLOOR JOISTS. REFER TO SCHEDULE FOR DETAILS
  - NEW TIMBER CONSTRUCTION.

- NOTE**
- CF = NEW CONCRETE FOUNDATION
  - CW = NEW CONCRETE WALL
  - C = NEW STEEL COLUMN
  - B = NEW STEEL BEAM
  - TW = NEW TIMBER WALL

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**NOT FOR CONSTRUCTION**

REVISIONS		
C	ISSUED FOR INFORMATION	04/04/2017
B	ISSUED FOR INFORMATION	24/03/2017
A	ISSUED FOR PRICING	24/02/2017

**NOTES**

1. ALL DIMENSIONS TO BE CONFIRMED ON SITE
2. ALL GRIDLINES ARE SET BASED ON ARCHITECTS MODEL
3. REFER TO SHEET S700 FOR CONCRETE SHEAR WALL SCHEDULE AND DETAILS
4. REFER TO SHEET S600 FOR STEELWORK SCHEDULES AND DETAILS
5. REFER TO SHEET S500 FOR TIMBER DIAPHRAGM SCHEDULE AND DETAILS



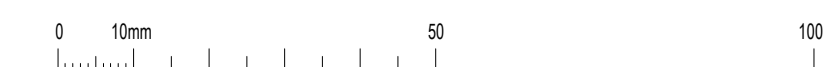
**OLD MUNICIPAL CHAMBERS**  
 Repairs, Reconstruction & Restoration

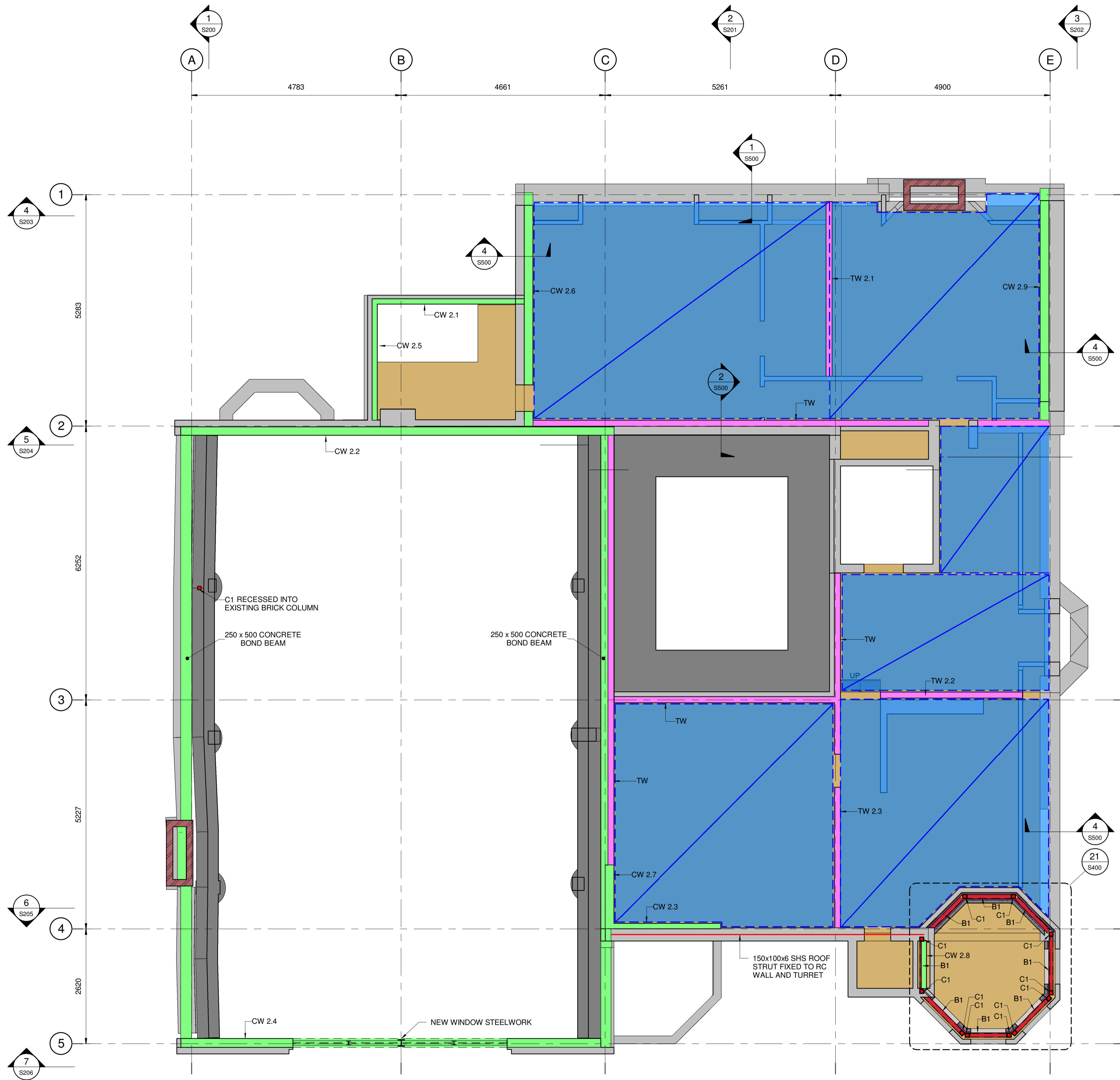
Project  
**FULL RESTORATION DEVELOPED DESIGN**

Sheet Name  
**FIRST FLOOR**

Scale			
SCALE @ A1= 1 : 50			
Design	SPT	Verified	SO
Drawn	SEH	Approved	WRP
Project No.	6-DP315.20	Issue Date	24/03/2017
Revision	C	Sheet No.	S102

**STRUCTURAL**





- LEGEND**
- NEW CONCRETE WALLS. REFER TO THE SHEAR WALL SCHEDULE AND TYPICAL SHEAR WALL DETAIL ON S700
  - EXISTING WALLS WIDTH VARIES
  - NEW STEEL ELEMENTS. REFER TO SHEET S600.
  - NEW PLYWOOD DIAPHRAGM FIXED TO UNDERSIDE OF FLOOR JOISTS. REFER TO SCHEDULE FOR DETAILS
  - NEW TIMBER SHEAR WALLS. REFER TO SCHEDULE FOR DETAILS.

- NOTE**
- CF = NEW CONCRETE FOUNDATION
  - CW = NEW CONCRETE WALL
  - C = NEW STEEL COLUMN
  - B = NEW STEEL BEAM
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B	ISSUED FOR INFORMATION	24/03/2017
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- NOTES**
1. ALL DIMENSIONS TO BE CONFIRMED ON SITE
  2. ALL GRIDLINES ARE SET BASED ON ARCHITECTS MODEL
  3. REFER TO SHEET S700 FOR CONCRETE SHEAR WALL SCHEDULE AND DETAILS
  4. REFER TO SHEET S600 FOR STEELWORK SCHEDULES AND DETAILS
  5. REFER TO SHEET S500 FOR TIMBER DIAPHRAGM SCHEDULE AND DETAILS



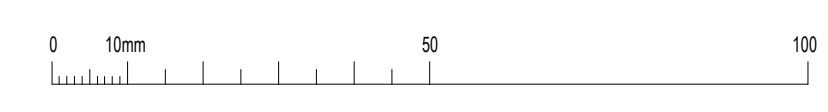
**OLD MUNICIPAL CHAMBERS**  
 Repairs, Reconstruction & Restoration

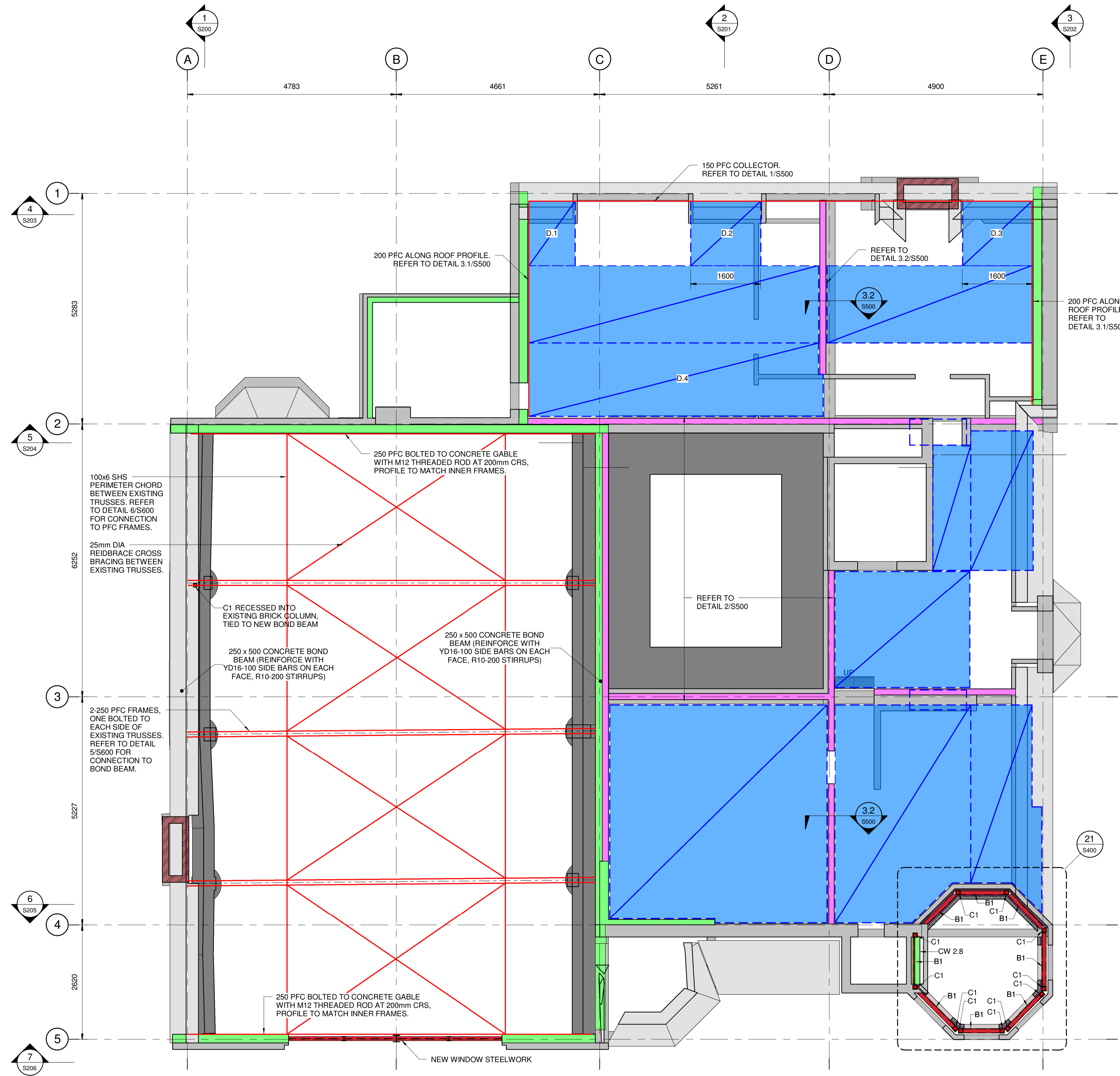
Project  
**FULL RESTORATION DEVELOPED DESIGN**  
 Sheet Name  
**SECOND FLOOR**

Scale  
**SCALE @ A1= 1 : 50**

Design	SPT	Verified	SO
Drawn	SEH	Approved	WRP
Project No.	6-DP315.20	Issue Date	24/03/2017
Revision	C	Sheet No.	S103

**STRUCTURAL**





**LEGEND**

- NEW CONCRETE WALLS. REFER TO THE SHEAR WALL SCHEDULE AND TYPICAL SHEAR WALL DETAIL ON S700
- EXISTING WALLS WIDTH VARIES
- NEW STEEL ELEMENTS. REFER TO SHEET S600.
- NEW PLYWOOD DIAPHRAGM FIXED TO UNDERSIDE OF CEILING FRAMING. REFER TO SCHEDULE FOR DETAILS
- NEW TIMBER SHEAR WALLS. REFER TO SCHEDULE FOR DETAILS.

**NOTE**

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 CW = NEW CONCRETE WALL  
 C = NEW STEEL COLUMN  
 B = NEW STEEL BEAM  
 TW = NEW TIMBER WALL

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A	ISSUED FOR PRICING	24/02/2017

- NOTES**
- ALL DIMENSIONS TO BE CONFIRMED ON SITE
  - ALL GRIDLINES ARE SET BASED ON ARCHITECTS MODEL
  - REFER TO SHEET S700 FOR CONCRETE SHEAR WALL SCHEDULE AND DETAILS
  - REFER TO SHEET S600 FOR STEELWORK SCHEDULES AND DETAILS
  - REFER TO SHEET S500 FOR TIMBER DIAPHRAGM SCHEDULE AND DETAILS



**OLD MUNICIPAL CHAMBERS**  
 Repairs, Reconstruction & Restoration

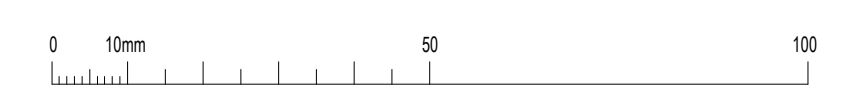
Project  
**FULL RESTORATION DEVELOPED DESIGN**

Sheet Name  
**SECOND FLOOR CEILING**

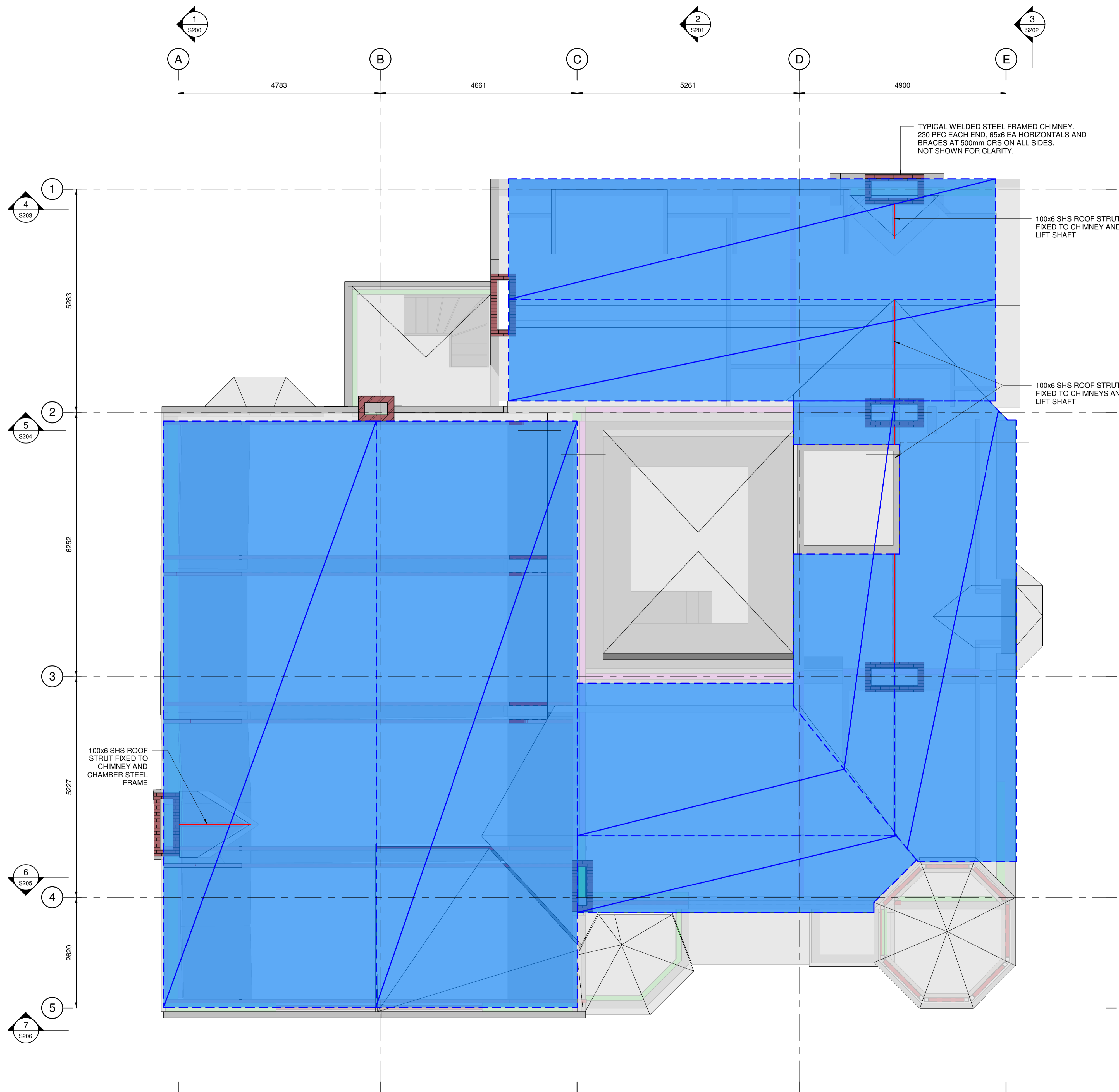
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**SCALE @ A1= 1 : 50**

Design	SPT	Verified	SO
Drawn	SEH	Approved	WRP
Project No.	6-DP315.20	Issue Date	24/03/2017
Revision	C	Sheet No.	S104

**STRUCTURAL**







**LEGEND**

EXISTING WALLS WIDTH VARIES

NEW PLYWOOD DIAPHRAGM FIXED TO TOP OF ROOF FRAMING. REFER TO SCHEDULE FOR DETAILS

**NOTE**

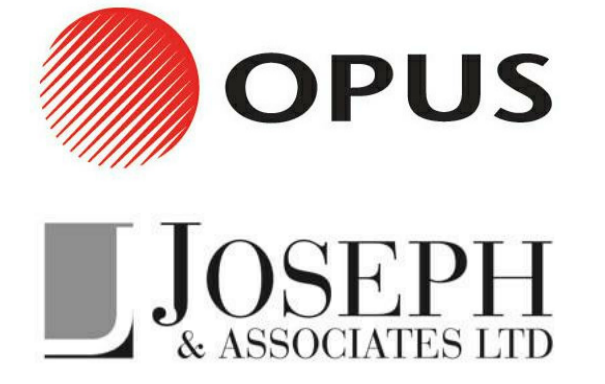
CF = NEW CONCRETE FOUNDATION

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B = NEW STEEL BEAM

TW = NEW TIMBER WALL



DO NOT SCALE

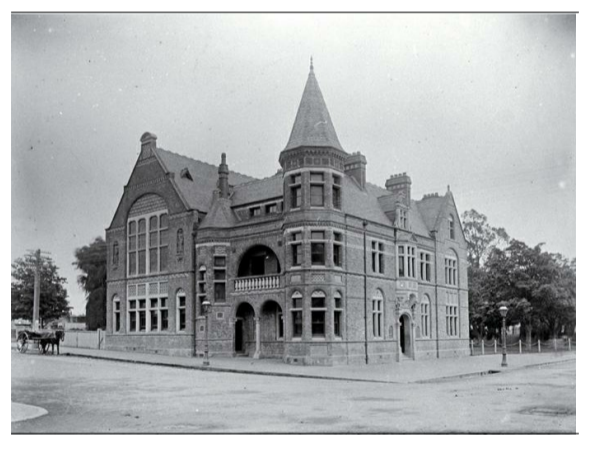
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B	ISSUED FOR INFORMATION 24/03/2017
A	ISSUED FOR PRICING 24/02/2017

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  - REFER TO SHEET S600 FOR STEELWORK SCHEDULES AND DETAILS
  - REFER TO SHEET S500 FOR TIMBER DIAPHRAGM SCHEDULE AND DETAILS



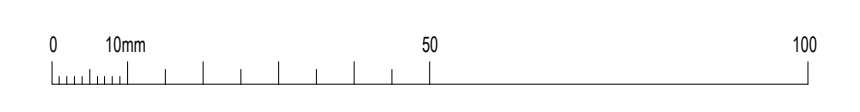
**OLD MUNICIPAL CHAMBERS**  
Repairs, Reconstruction & Restoration

Project  
**FULL RESTORATION  
DEVELOPED DESIGN**

Sheet Name  
**ROOF**

Scale	SCALE @ A1= 1 : 50		
Design	SPT	Verified	SO
Drawn	SEH	Approved	WRP
Project No.	6-DP315.20	Issue Date	24/03/2017
Revision	C	Sheet No.	S105

**STRUCTURAL**



**NOT FOR CONSTRUCTION**

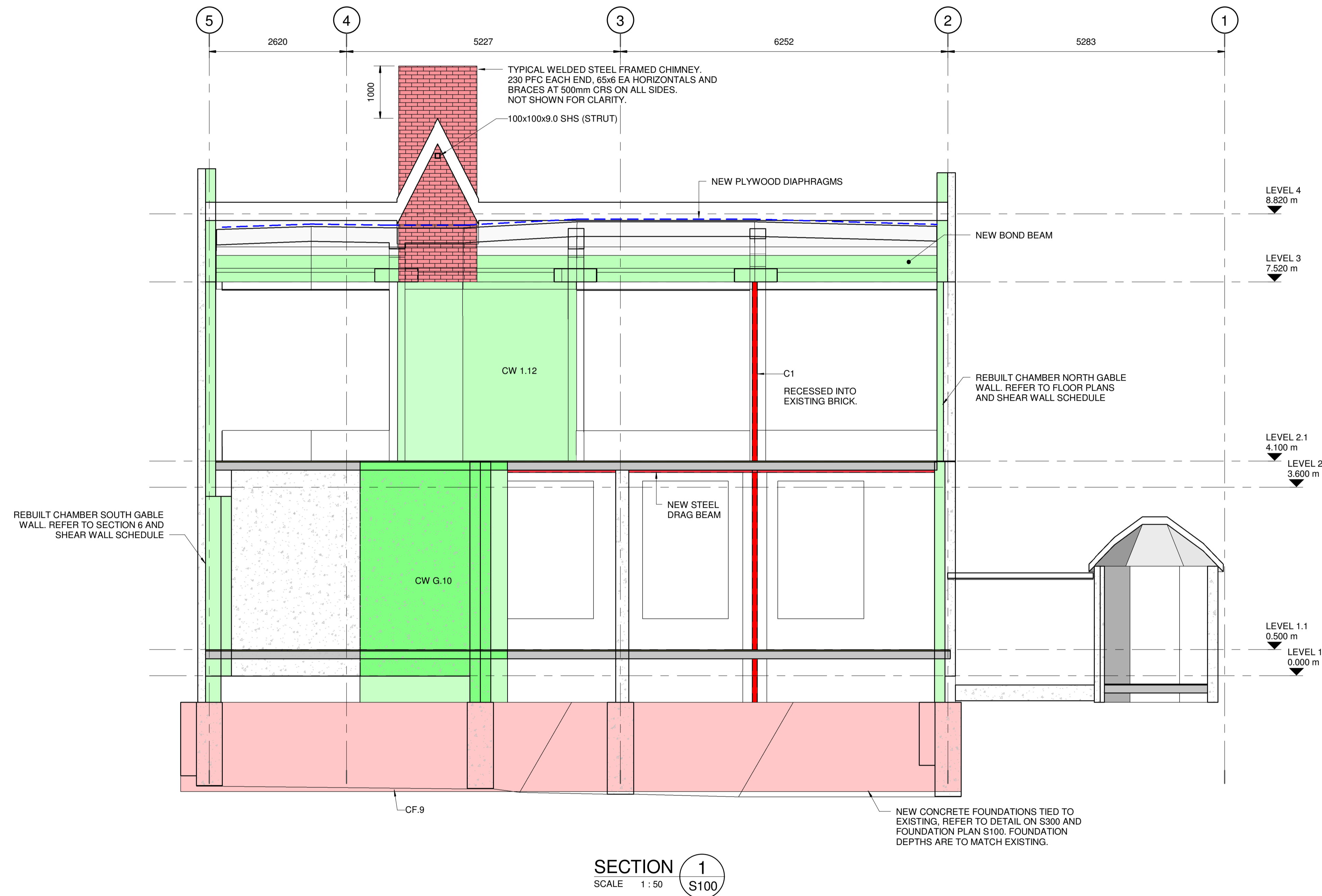
REVISIONS		
C	ISSUED FOR INFORMATION	04/04/2017
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A	ISSUED FOR PRICING	24/02/2017

- LEGEND**
- NEW CONCRETE FOUNDATION. REFER TO THE FOUNDATION SCHEDULE AND TYPICAL FOUNDATION DETAIL ON S300
  - EXISTING WALLS OR FOUNDATIONS
  - NEW CONCRETE WALLS. REFER TO THE SHEAR WALL SCHEDULE AND TYPICAL SHEAR WALL DETAIL ON S700
  - NEW STEEL ELEMENTS. REFER TO SHEET S600.
  - NEW TIMBER SHEAR WALLS. REFER TO SCHEDULE FOR DETAILS.
  - NEW PLYWOOD DIAPHRAGM FIXED TO FLOOR JOISTS & ROOF FRAMING. REFER TO SCHEDULE FOR DETAILS.

- NOTE**
- CF = NEW CONCRETE FOUNDATION
  - CW = NEW CONCRETE WALL
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  - TW = NEW TIMBER WALL

**NOTES**

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3. REFER TO SHEET S700 FOR CONCRETE SHEAR WALL SCHEDULE AND DETAILS
4. REFER TO SHEET S600 FOR STEELWORK SCHEDULES AND DETAILS
5. REFER TO SHEET S500 FOR TIMBER DIAPHRAGM SCHEDULE AND DETAILS



**OLD MUNICIPAL CHAMBERS**  
Repairs, Reconstruction & Restoration

Project  
**FULL RESTORATION DEVELOPED DESIGN**

Sheet Name  
**CROSS SECTIONS**

Scale			
SCALE @ A1= 1 : 50			
Design	SPT	Verified	SO
Drawn	SEH	Approved	WRP
Project No.	6-DP315.20	Issue Date	24/03/2017
Revision	C	Sheet No.	S200

**STRUCTURAL**



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**OLD MUNICIPAL CHAMBERS**  
Repairs, Reconstruction & Restoration

Project  
**FULL RESTORATION  
DEVELOPED DESIGN**

Sheet Name  
**CROSS SECTIONS**

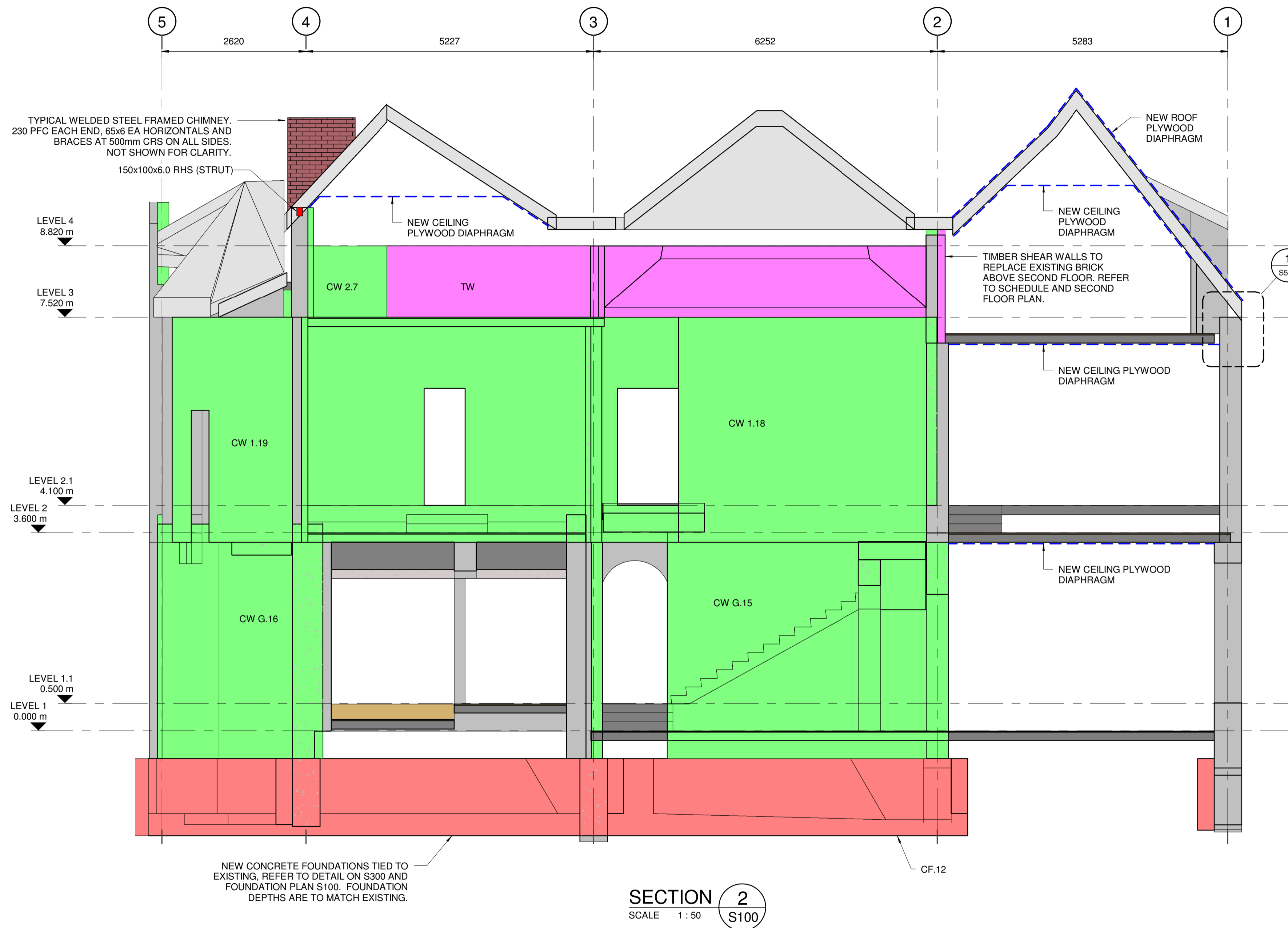
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Drawn	SEH	Approved	WRP
Project No.	6-DP315.20	Issue Date	24/03/2017
Revision	C	Sheet No.	S201

**STRUCTURAL**

- LEGEND**
- NEW CONCRETE FOUNDATION. REFER TO THE FOUNDATION SCHEDULE AND TYPICAL FOUNDATION DETAIL ON S300
  - EXISTING WALLS OR FOUNDATIONS
  - NEW CONCRETE WALLS. REFER TO THE SHEAR WALL SCHEDULE AND TYPICAL SHEAR WALL DETAIL ON S700
  - NEW STEEL ELEMENTS. REFER TO SHEET S600.
  - NEW TIMBER SHEAR WALLS. REFER TO SCHEDULE FOR DETAILS.
  - NEW PLYWOOD DIAPHRAGM FIXED TO FLOOR JOISTS & ROOF FRAMING. REFER TO SCHEDULE FOR DETAILS

**NOTE**

- CF = NEW CONCRETE FOUNDATION
- CW = NEW CONCRETE WALL
- C = NEW STEEL COLUMN
- B = NEW STEEL BEAM
- TW = NEW TIMBER WALL



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A	ISSUED FOR PRICING	24/02/2017

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5. REFER TO SHEET S500 FOR TIMBER DIAPHRAGM SCHEDULE AND DETAILS



**OLD MUNICIPAL CHAMBERS**  
 Repairs, Reconstruction & Restoration

Project  
**FULL RESTORATION  
 DEVELOPED DESIGN**

Sheet Name  
**CROSS SECTIONS**

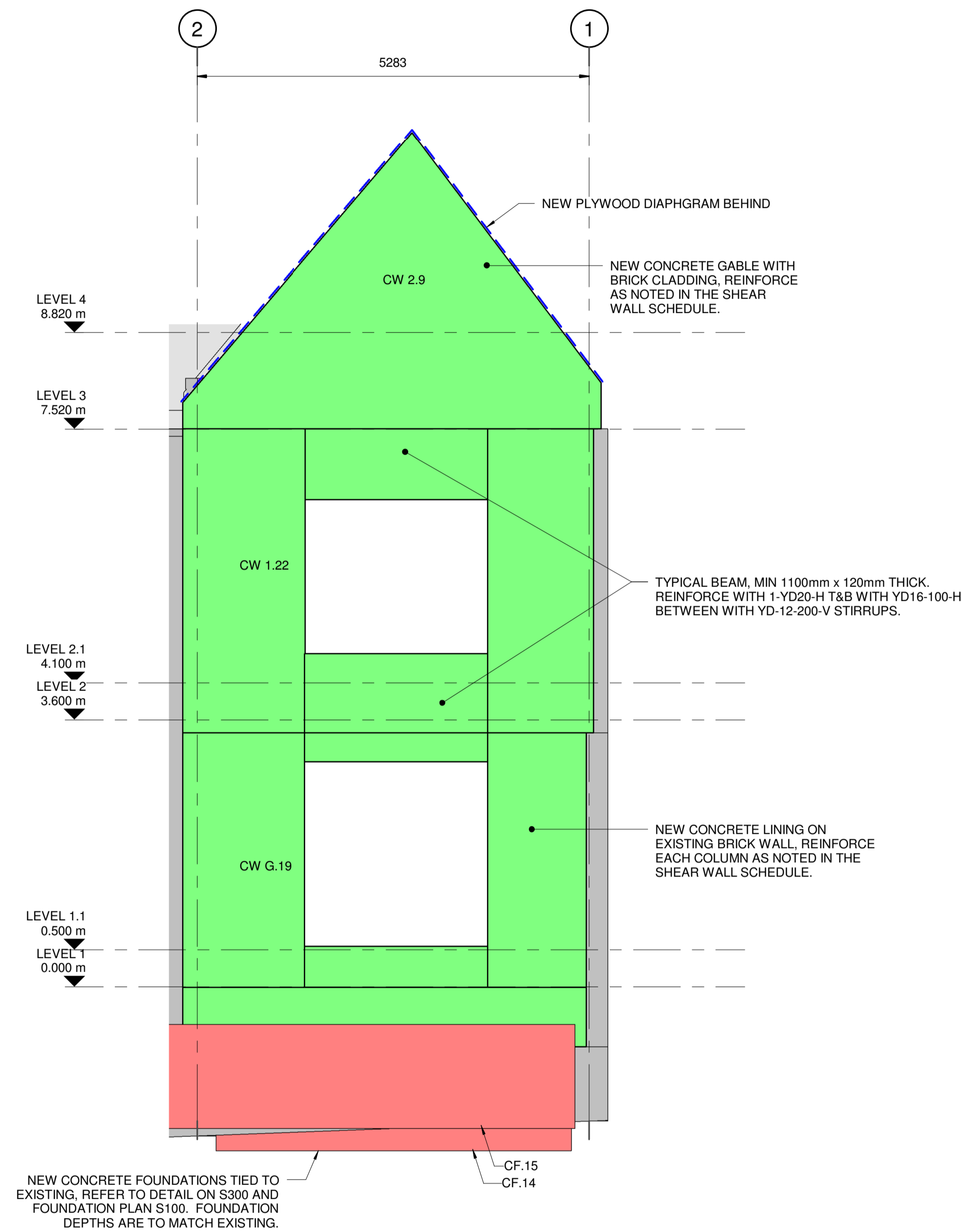
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SCALE @ A1= 1 : 50			
Design	SPT	Verified	SO
Drawn	SEH	Approved	WRP
Project No.	6-DP315.20	Issue Date	24/03/2017
Revision	B	Sheet No.	S202

**STRUCTURAL**

- LEGEND**
- NEW CONCRETE FOUNDATION. REFER TO THE FOUNDATION SCHEDULE AND TYPICAL FOUNDATION DETAIL ON S300
  - EXISTING WALLS OR FOUNDATIONS
  - NEW CONCRETE WALLS. REFER TO THE SHEAR WALL SCHEDULE AND TYPICAL SHEAR WALL DETAIL ON S700
  - NEW STEEL ELEMENTS. REFER TO SHEET S600.
  - NEW TIMBER SHEAR WALLS. REFER TO SCHEDULE FOR DETAILS.
  - NEW PLYWOOD DIAPHRAGM FIXED TO FLOOR JOISTS & ROOF FRAMING. REFER TO SCHEDULE FOR DETAILS

**NOTE**

- CF = NEW CONCRETE FOUNDATION
- CW = NEW CONCRETE WALL
- C = NEW STEEL COLUMN
- B = NEW STEEL BEAM
- TW = NEW TIMBER WALL



**SECTION 3**  
 SCALE 1 : 50 S100

NEW CONCRETE FOUNDATIONS TIED TO EXISTING, REFER TO DETAIL ON S300 AND FOUNDATION PLAN S100. FOUNDATION DEPTHS ARE TO MATCH EXISTING.

DO NOT SCALE  
 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING ANY WORK.  
 ALL STRUCTURAL DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, CIVIL, FIRE, MECHANICAL & ELECTRICAL DRAWINGS.

**NOT FOR CONSTRUCTION**

REVISIONS		
C	ISSUED FOR INFORMATION	04/04/2017
B	ISSUED FOR INFORMATION	24/03/2017
A	ISSUED FOR PRICING	24/02/2017

**NOTES**

1. ALL DIMENSIONS TO BE CONFIRMED ON SITE
2. ALL GRIDLINES ARE SET BASED ON ARCHITECTS MODEL
3. REFER TO SHEET S700 FOR CONCRETE SHEAR WALL SCHEDULE AND DETAILS
4. REFER TO SHEET S600 FOR STEELWORK SCHEDULES AND DETAILS
5. REFER TO SHEET S500 FOR TIMBER DIAPHRAGM SCHEDULE AND DETAILS



**OLD MUNICIPAL CHAMBERS**  
 Repairs, Reconstruction & Restoration

Project  
**FULL RESTORATION**  
 DEVELOPED DESIGN

Sheet Name  
**CROSS SECTIONS**

Scale			
SCALE @ A1= 1 : 50			
Design	SPT	Verified	SO
Drawn	SEH	Approved	WRP
Project No.	6-DP315.20		Issue Date
Revision	C	Sheet No.	S203

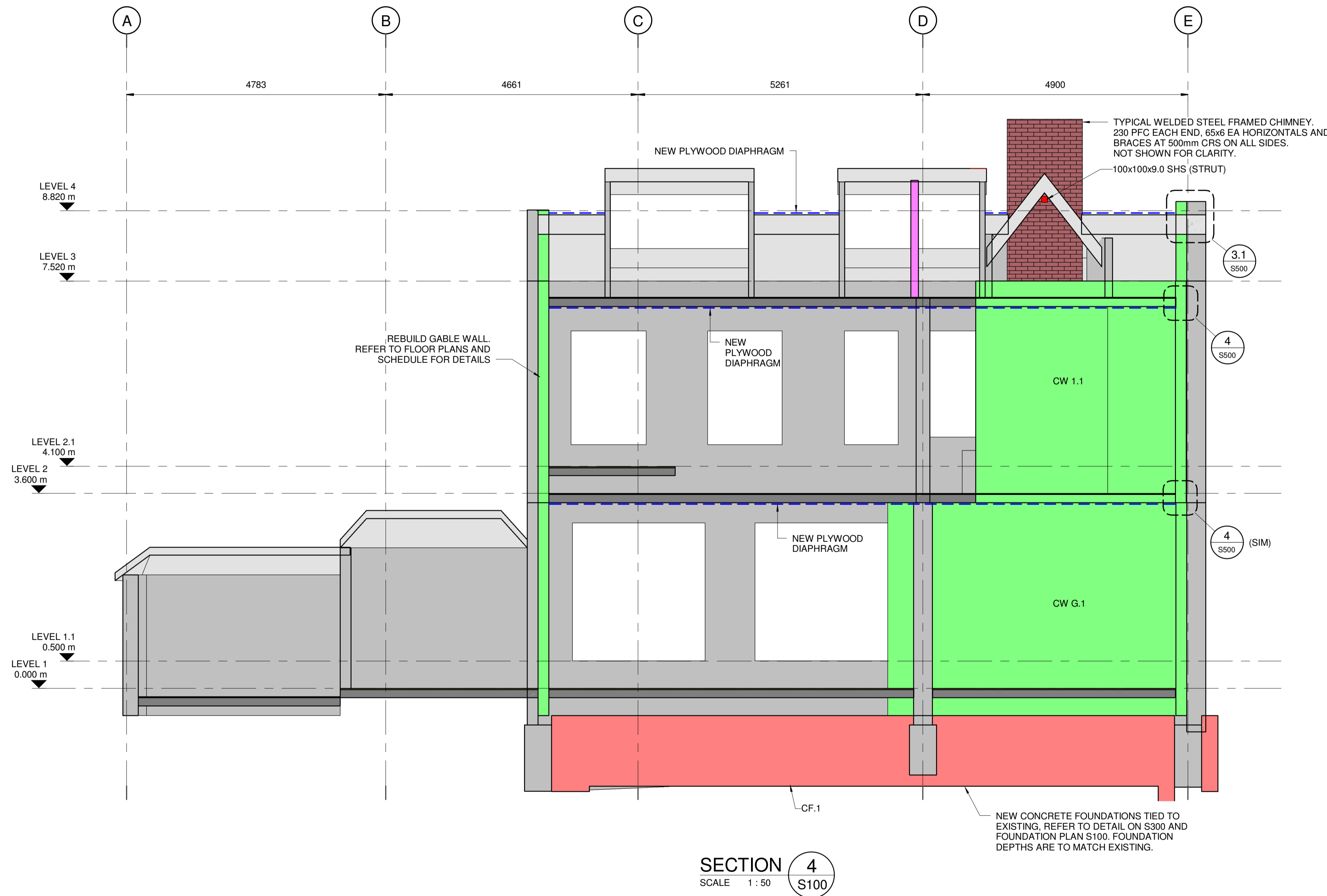
**STRUCTURAL**

**LEGEND**

- NEW CONCRETE FOUNDATION. REFER TO THE FOUNDATION SCHEDULE AND TYPICAL FOUNDATION DETAIL ON S300
- EXISTING WALLS OR FOUNDATIONS
- NEW CONCRETE WALLS. REFER TO THE SHEAR WALL SCHEDULE AND TYPICAL SHEAR WALL DETAIL ON S700
- NEW STEEL ELEMENTS. REFER TO SHEET S600.
- NEW TIMBER SHEAR WALLS. REFER TO SCHEDULE FOR DETAILS.
- NEW PLYWOOD DIAPHRAGM FIXED TO FLOOR JOISTS & ROOF FRAMING. REFER TO SCHEDULE FOR DETAILS

**NOTE**

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**NOT FOR CONSTRUCTION**

REVISIONS		
C	ISSUED FOR INFORMATION	04/04/2017
B	ISSUED FOR INFORMATION	24/03/2017
A	ISSUED FOR PRICING	24/02/2017

**NOTES**

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- ALL GRIDLINES ARE SET BASED ON ARCHITECTS MODEL
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- REFER TO SHEET S600 FOR STEELWORK SCHEDULES AND DETAILS
- REFER TO SHEET S500 FOR TIMBER DIAPHRAGM SCHEDULE AND DETAILS



**OLD MUNICIPAL CHAMBERS**  
Repairs, Reconstruction & Restoration

Project  
**FULL RESTORATION**  
DEVELOPED DESIGN

Sheet Name  
**CROSS SECTIONS**

Scale			
SCALE @ A1= 1 : 50			
Design	SPT	Verified	SO
Drawn	SEH	Approved	WRP
Project No.	6-DP315.20	Issue Date	24/03/2017
Revision	C	Sheet No.	S204

**STRUCTURAL**

- LEGEND**
- NEW CONCRETE FOUNDATION. REFER TO THE FOUNDATION SCHEDULE AND TYPICAL FOUNDATION DETAIL ON S300
  - EXISTING WALLS OR FOUNDATIONS
  - NEW CONCRETE WALLS. REFER TO THE SHEAR WALL SCHEDULE AND TYPICAL SHEAR WALL DETAIL ON S700
  - NEW STEEL ELEMENTS. REFER TO SHEET S600.
  - NEW TIMBER SHEAR WALLS. REFER TO SCHEDULE FOR DETAILS.
  - NEW PLYWOOD DIAPHRAGM FIXED TO FLOOR JOISTS & ROOF FRAMING. REFER TO SCHEDULE FOR DETAILS

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**NOT FOR CONSTRUCTION**

REVISIONS		
C	ISSUED FOR INFORMATION	04/04/2017
B	ISSUED FOR INFORMATION	24/03/2017
A	ISSUED FOR PRICING	24/02/2017

**NOTES**

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3. REFER TO SHEET S700 FOR CONCRETE SHEAR WALL SCHEDULE AND DETAILS
4. REFER TO SHEET S600 FOR STEELWORK SCHEDULES AND DETAILS
5. REFER TO SHEET S500 FOR TIMBER DIAPHRAGM SCHEDULE AND DETAILS



**OLD MUNICIPAL CHAMBERS**  
Repairs, Reconstruction & Restoration

Project  
**FULL RESTORATION  
DEVELOPED DESIGN**

Sheet Name  
**CROSS SECTIONS**

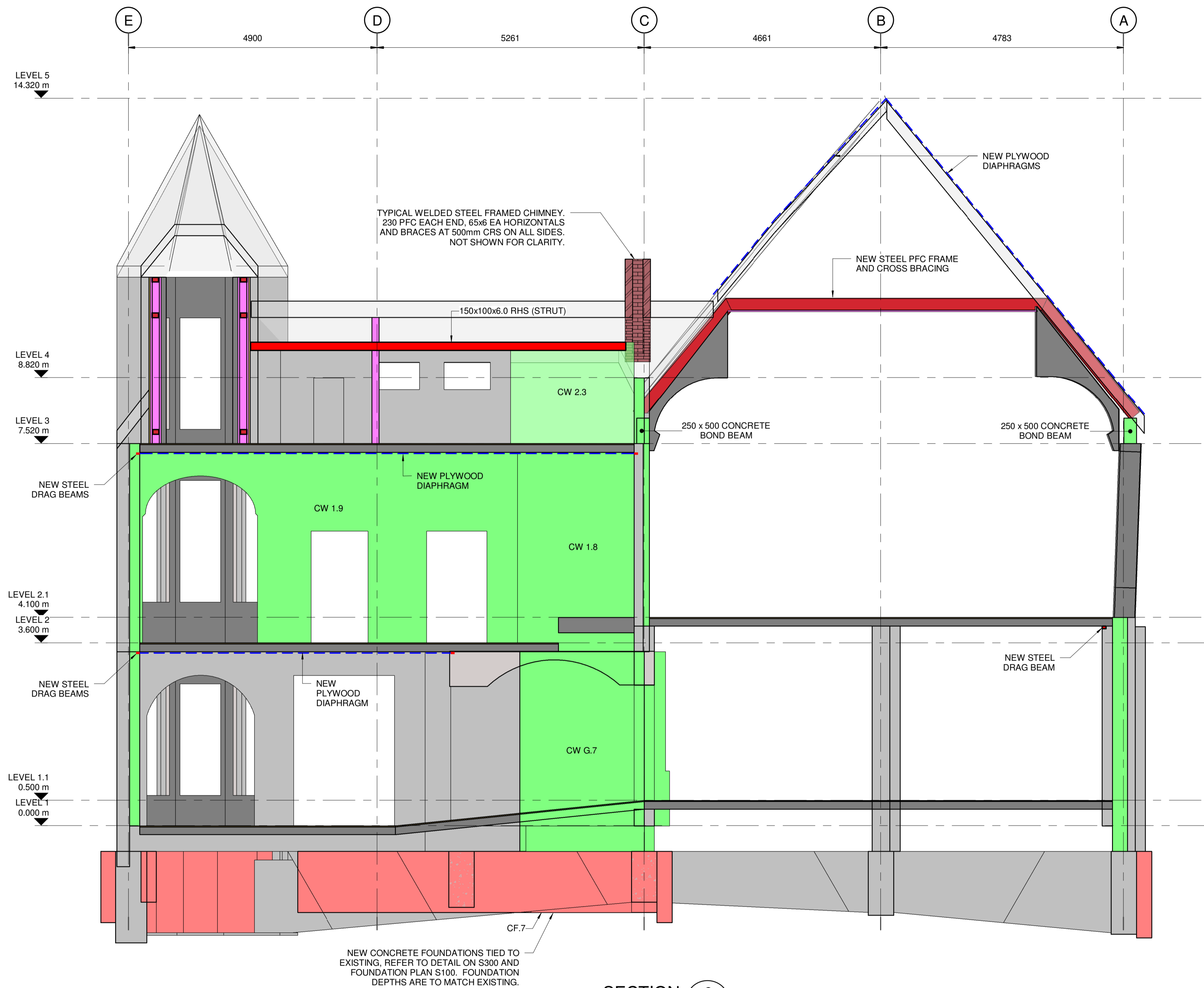
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Design	SPT	Verified	SO
Drawn	SEH	Approved	WRP
Project No.	6-DP315.20	Issue Date	24/03/2017
Revision	C	Sheet No.	S205

**STRUCTURAL**

- LEGEND**
- NEW CONCRETE FOUNDATION. REFER TO THE FOUNDATION SCHEDULE AND TYPICAL FOUNDATION DETAIL ON S300
  - EXISTING WALLS OR FOUNDATIONS
  - NEW CONCRETE WALLS. REFER TO THE SHEAR WALL SCHEDULE AND TYPICAL SHEAR WALL DETAIL ON S700
  - NEW STEEL ELEMENTS. REFER TO SHEET S600.
  - NEW TIMBER SHEAR WALLS. REFER TO SCHEDULE FOR DETAILS.
  - NEW PLYWOOD DIAPHRAGM FIXED TO FLOOR JOISTS & ROOF FRAMING. REFER TO SCHEDULE FOR DETAILS

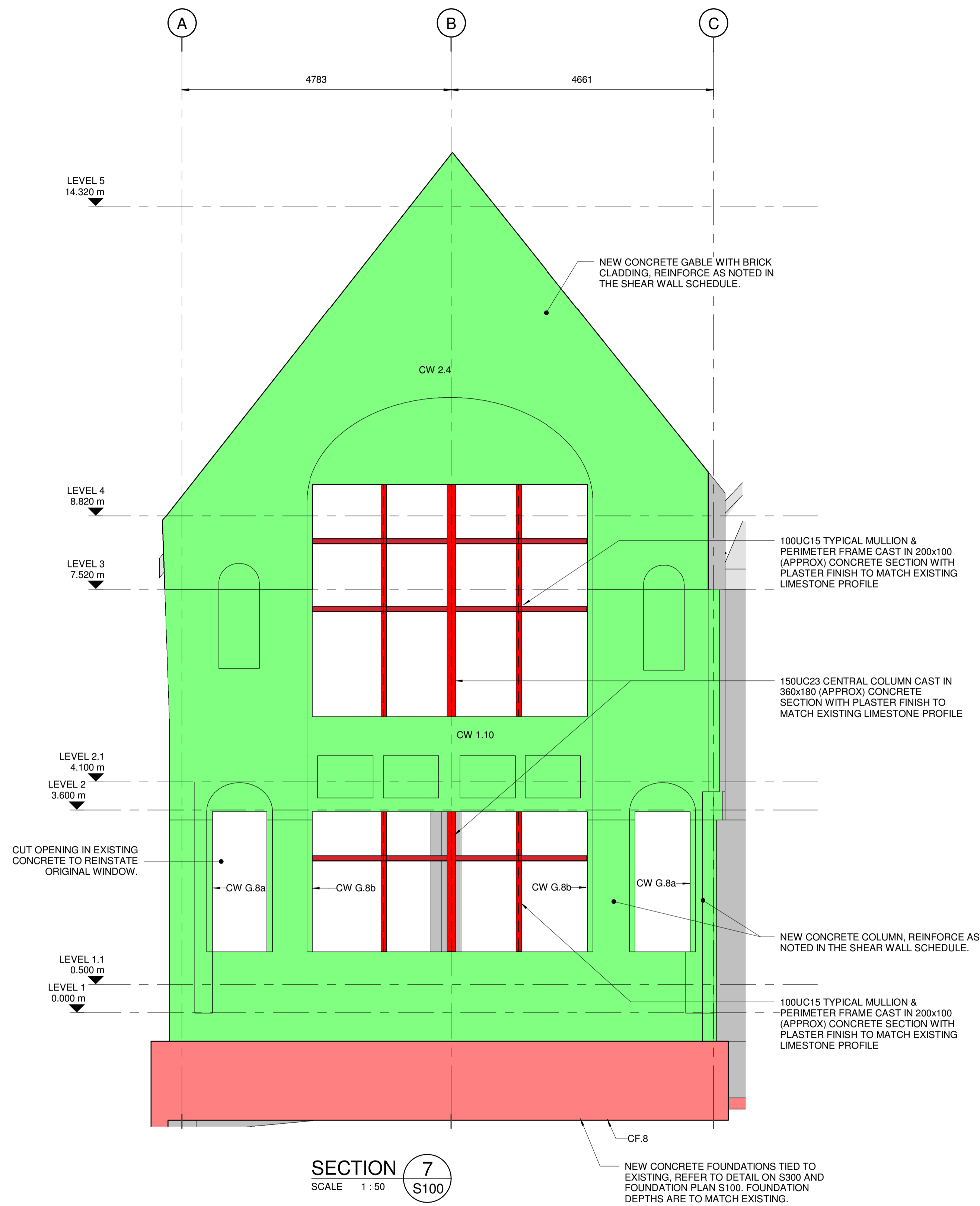
**NOTE**

- CF = NEW CONCRETE FOUNDATION
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- B = NEW STEEL BEAM
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NEW CONCRETE FOUNDATIONS TIED TO EXISTING. REFER TO DETAIL ON S300 AND FOUNDATION PLAN S100. FOUNDATION DEPTHS ARE TO MATCH EXISTING.

**SECTION 6**  
SCALE 1 : 50 S100



- LEGEND**
- NEW CONCRETE FOUNDATION. REFER TO THE FOUNDATION SCHEDULE AND TYPICAL FOUNDATION DETAIL ON S300
  - EXISTING WALLS OR FOUNDATIONS
  - NEW CONCRETE WALLS. REFER TO THE SHEAR WALL SCHEDULE AND TYPICAL SHEAR WALL DETAIL ON S700
  - NEW STEEL ELEMENTS. REFER TO SHEET S600.
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REVISIONS		
B	ISSUED FOR INFORMATION	24/03/2017
A	ISSUED FOR PRICING	24/02/2017

**NOTES**

1. ALL DIMENSIONS TO BE CONFIRMED ON SITE
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3. REFER TO SHEET S700 FOR CONCRETE SHEAR WALL SCHEDULE AND DETAILS
4. REFER TO SHEET S600 FOR STEELWORK SCHEDULES AND DETAILS
5. REFER TO SHEET S500 FOR TIMBER DIAPHRAGM SCHEDULE AND DETAILS



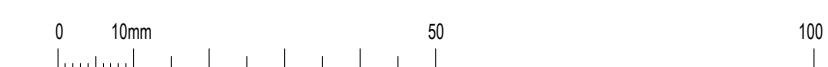
**OLD MUNICIPAL CHAMBERS**  
Repairs, Reconstruction & Restoration

Project  
**FULL RESTORATION  
DEVELOPED DESIGN**

Sheet Name  
**CROSS SECTIONS**

Scale			
SCALE @ A1= 1 : 50			
Design	SPT	Verified	SO
Drawn	SEH	Approved	WRP
Project No.	6-DP315.20	Issue Date	24/03/2017
Revision	B	Sheet No.	S206

**STRUCTURAL**





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**NOT FOR CONSTRUCTION**

REVISIONS		
C	ISSUED FOR INFORMATION	04/04/2017
B	ISSUED FOR INFORMATION	24/03/2017
A	ISSUED FOR PRICING	24/02/2017

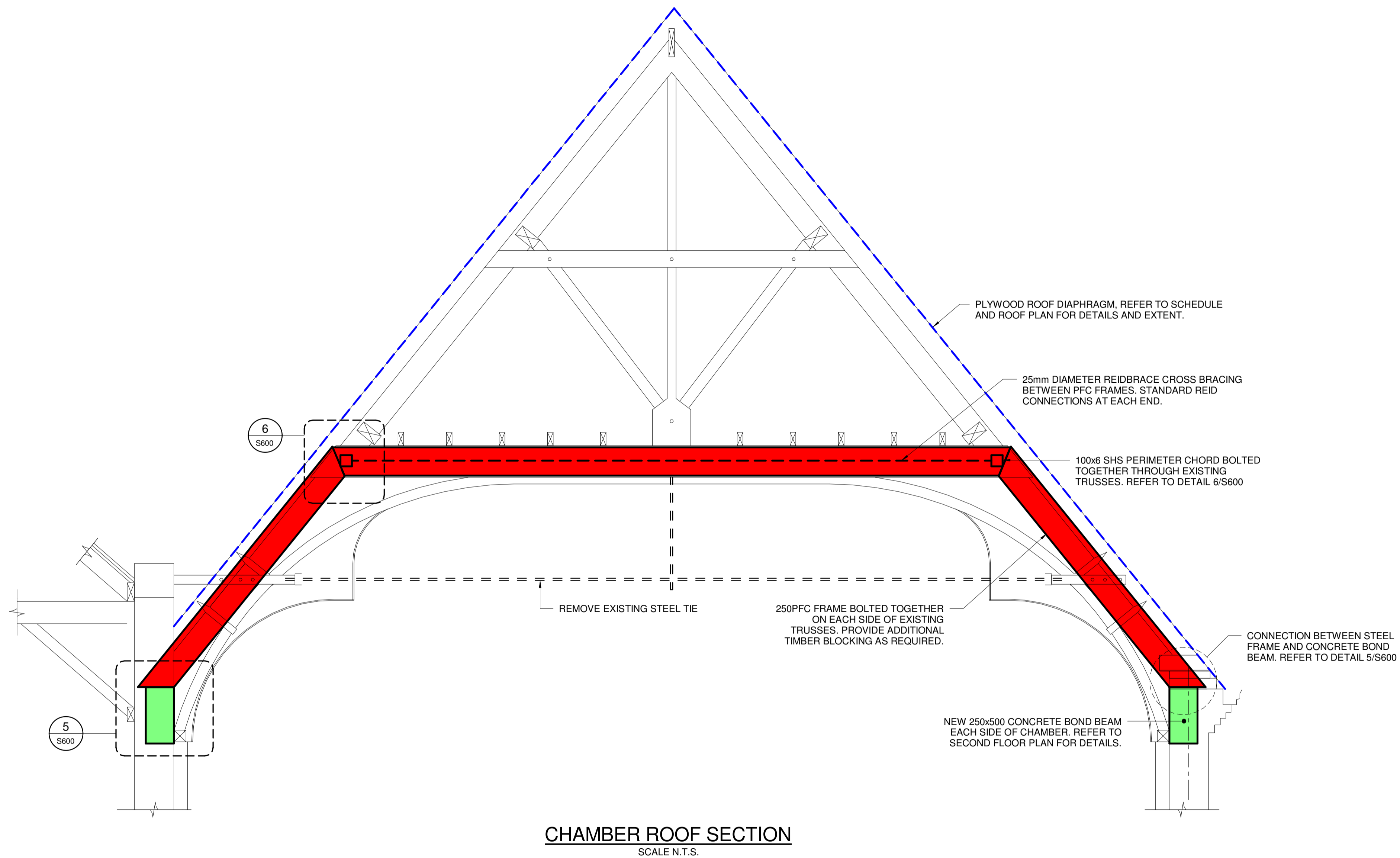
**NOTES**

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- LEGEND**
- NEW CONCRETE FOUNDATION. REFER TO THE FOUNDATION SCHEDULE AND TYPICAL FOUNDATION DETAIL ON S300
  - EXISTING WALLS OR FOUNDATIONS
  - NEW CONCRETE WALLS. REFER TO THE SHEAR WALL SCHEDULE AND TYPICAL SHEAR WALL DETAIL ON S700
  - NEW STEEL ELEMENTS. REFER TO SHEET S600.
  - NEW TIMBER SHEAR WALLS. REFER TO SCHEDULE FOR DETAILS.
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**OLD MUNICIPAL CHAMBERS**  
Repairs, Reconstruction & Restoration

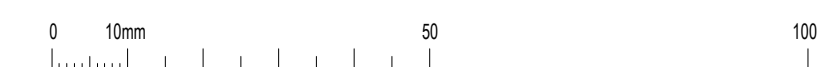
Project  
**FULL RESTORATION  
DEVELOPED DESIGN**

Sheet Name  
**CROSS SECTIONS**

Scale  
SCALE @ A1= As indicated

Design	SPT	Verified	SO
Drawn	SEH	Approved	WRP
Project No.	6-DP315.20	Issue Date	24/03/2017
Revision	C	Sheet No.	S207

**STRUCTURAL**

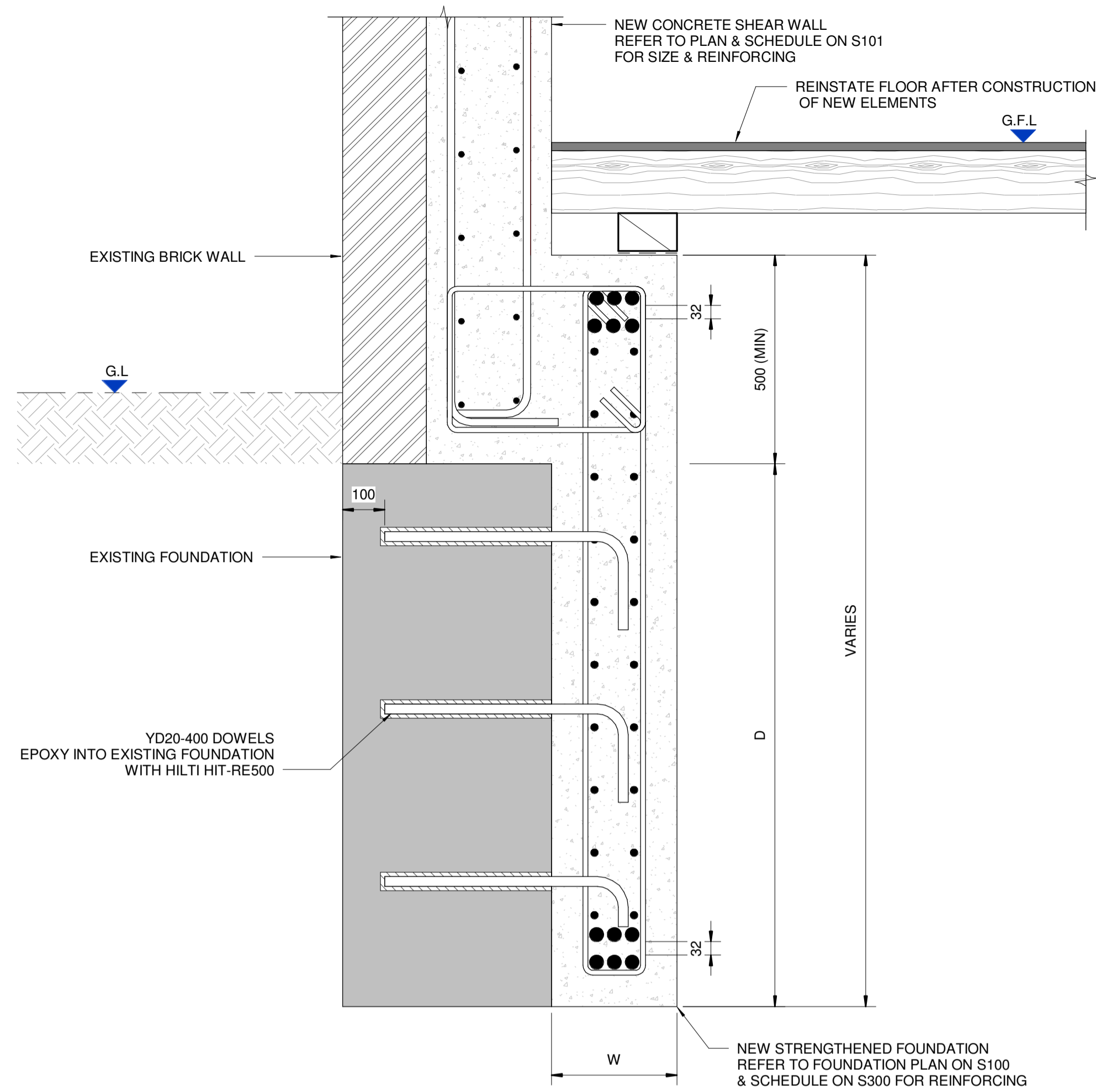


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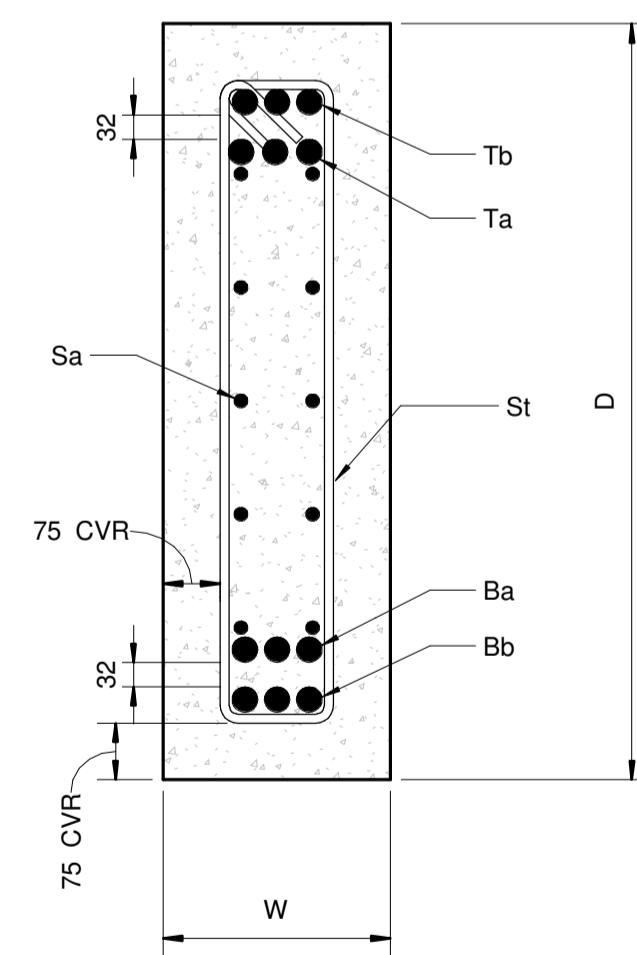
REVISIONS		
C	ISSUED FOR INFORMATION	04/04/2017
B	ISSUED FOR INFORMATION	24/03/2017
A	ISSUED FOR PRICING	24/02/2017

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5. REFER TO SHEET S500 FOR TIMBER DIAPHRAGM SCHEDULE AND DETAILS



**TYPICAL STRENGTHENED FOUNDATION**



**TYPICAL BEAM FOUNDATION**

FOUNDATION BEAM REINFORCING SCHEDULE									
BEAM MARK	WIDTH	DEPTH	REINF. St	REINF. Sa	REINF. Ba	REINF. Bb	REINF. Ta	REINF. Tb	COMMENT
CF.1	300	1300	R10-200 STIRRUP SETS	YD16-150	3-YD32	2-YD32	3-YD32	2-YD32	TIED TO EXISTING FOUNDATION
CF.2	500	1400	2-R10-200 STIRRUP SETS	YD16-150	4-YD32	-----	4-YD32	-----	NEW FOUNDATION. EXISTING FOUNDATION UNKNOWN - ALLOW TO REPLACE WITH NEW
CF.3	300	1600	R10-200 STIRRUP SETS	YD16-150	3-YD32	2-YD32	3-YD32	2-YD32	TIED TO EXISTING FOUNDATION. ALLOW TO EPOXY AND INFILL WITH ADDITIONAL REINFORCING WHERE EXISTING DRAWINGS INDICATE OPENING IN FOUNDATIONS
CF.4	300	1000	R10-200 STIRRUP SETS	YD16-150	3-YD32	2-YD32	3-YD32	2-YD32	TIED TO EXISTING FOUNDATION
CF.5	300	1200	R10-200 STIRRUP SETS	YD16-150	3-YD32	2-YD32	3-YD32	2-YD32	TIED TO EXISTING FOUNDATION
CF.5a	500	1200	2-R10-200 STIRRUP SETS	YD16-150	4-YD32	4-YD32	4-YD32	4-YD32	TIED TO EXISTING FOUNDATION
CF.6	300	1000	R10-200 STIRRUP SETS	YD16-150	3-YD32	-----	3-YD32	-----	TIED TO EXISTING FOUNDATION
CF.7	300	1200	R10-200 STIRRUP SETS	YD16-150	3-YD32	-----	3-YD32	-----	TIED TO EXISTING FOUNDATION
CF.8	300	1400	R10-200 STIRRUP SETS	YD16-150	3-YD32	2-YD32	3-YD32	2-YD32	TIED TO EXISTING FOUNDATION
CF.9	300	1700	R10-200 STIRRUP SETS	YD16-150	3-YD32	-----	3-YD32	-----	TIED TO EXISTING FOUNDATION
CF.10	500	1400	2-R10-200 STIRRUP SETS	YD16-150	4-YD32	-----	4-YD32	-----	NEW FOUNDATION. EXISTING FOUNDATION UNKNOWN - ALLOW TO REPLACE WITH NEW
CF.11	700	1400	2-R10-200 STIRRUP SETS	YD16-150	4-YD32	2-YD32	4-YD32	2-YD32	NEW FOUNDATION
CF.12	300	1400	R10-200 STIRRUP SETS	YD16-150	3-YD32	-----	3-YD32	-----	TIED TO EXISTING FOUNDATION
CF.13	300	1000	R10-200 STIRRUP SETS	YD16-150	3-YD32	2-YD32	3-YD32	2-YD32	TIED TO EXISTING FOUNDATION
CF.14	300	1700	R10-200 STIRRUP SETS	YD16-150	3-YD32	2-YD32	3-YD32	2-YD32	TIED TO EXISTING FOUNDATION
CF.15	300	1400	R10-200 STIRRUP SETS	YD16-150	3-YD32	2-YD32	3-YD32	2-YD32	TIED TO EXISTING FOUNDATION
CF.16	300	1600	R10-200 STIRRUP SETS	YD16-150	2-YD32	-----	2-YD32	-----	TIED TO EXISTING FOUNDATION



**OLD MUNICIPAL CHAMBERS**  
Repairs, Reconstruction & Restoration

Project  
**FULL RESTORATION**  
DEVELOPED DESIGN

Sheet Name  
**FOUNDATION DETAILS**

Scale  
**SCALE @ A1= 1 : 10**

Design SPT Verified SO

Drawn SEH Approved WRP

Project No. 6-DP315.20 Issue Date 24/03/2017

Revision C Sheet No. S300

**STRUCTURAL**

**NOT FOR CONSTRUCTION**

REVISIONS		
B	ISSUED FOR INFORMATION	24/03/2017
A	ISSUED FOR PRICING	24/02/2017

**NOTES**

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- REFER TO SHEET S700 FOR CONCRETE SHEAR WALL SCHEDULE AND DETAILS
- REFER TO SHEET S600 FOR STEELWORK SCHEDULES AND DETAILS
- REFER TO SHEET S500 FOR TIMBER DIAPHRAGM SCHEDULE AND DETAILS



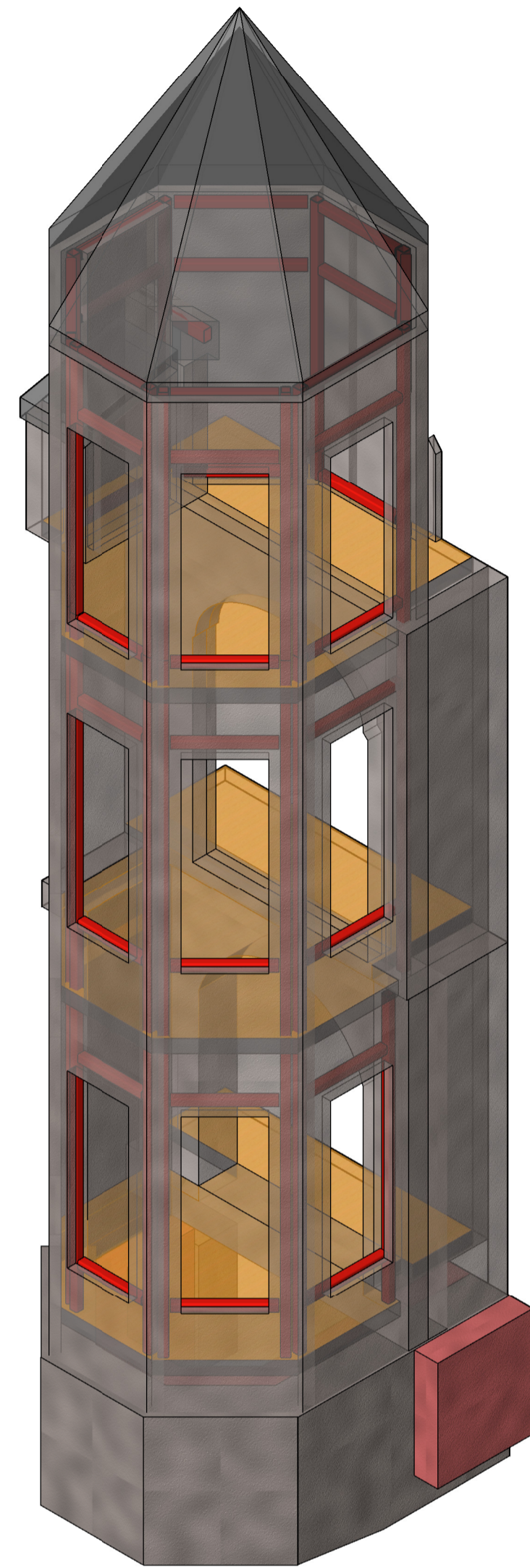
**OLD MUNICIPAL CHAMBERS**  
 Repairs, Reconstruction & Restoration

Project  
**FULL RESTORATION DEVELOPED DESIGN**

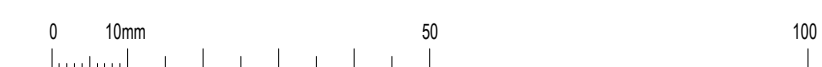
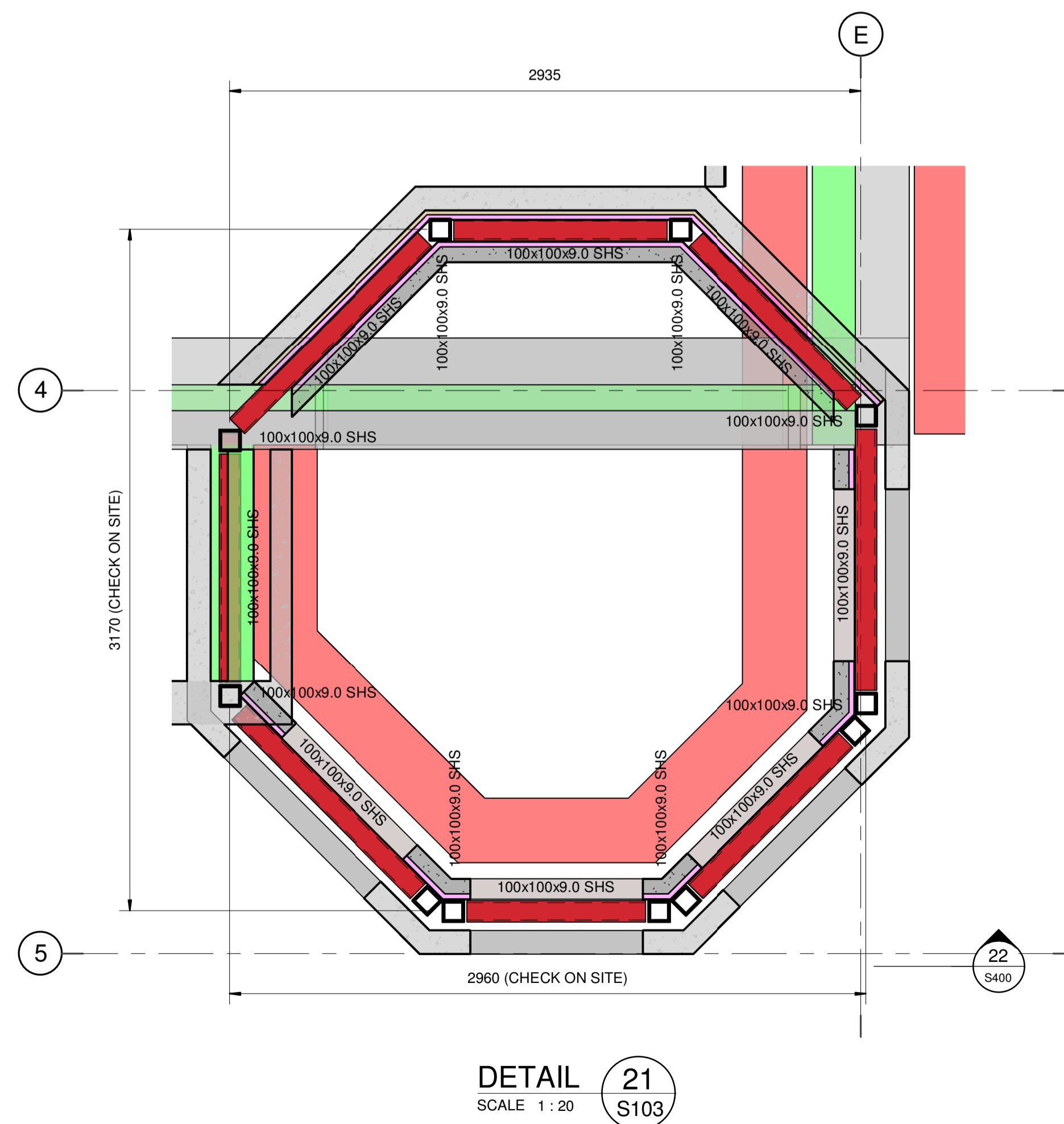
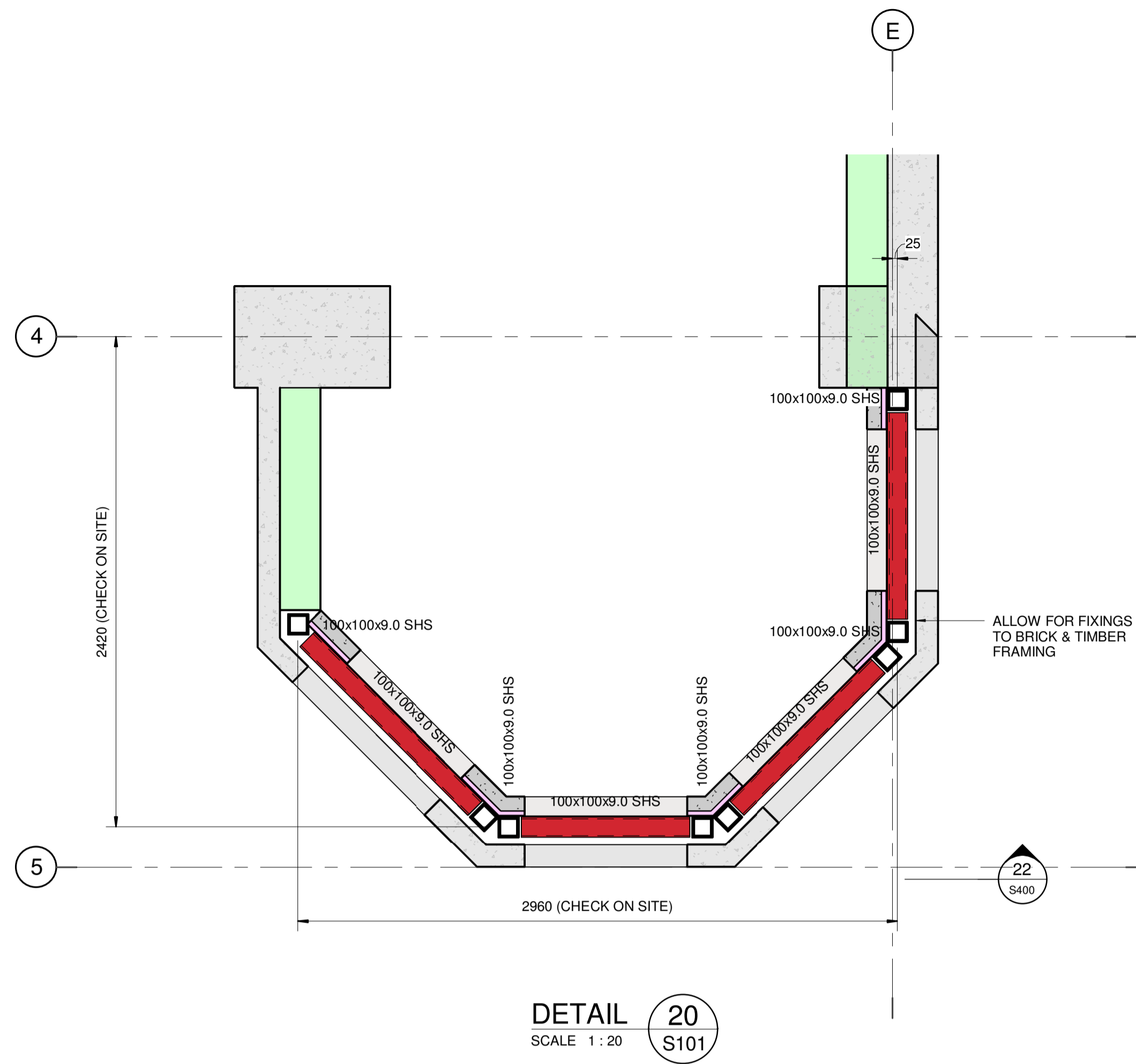
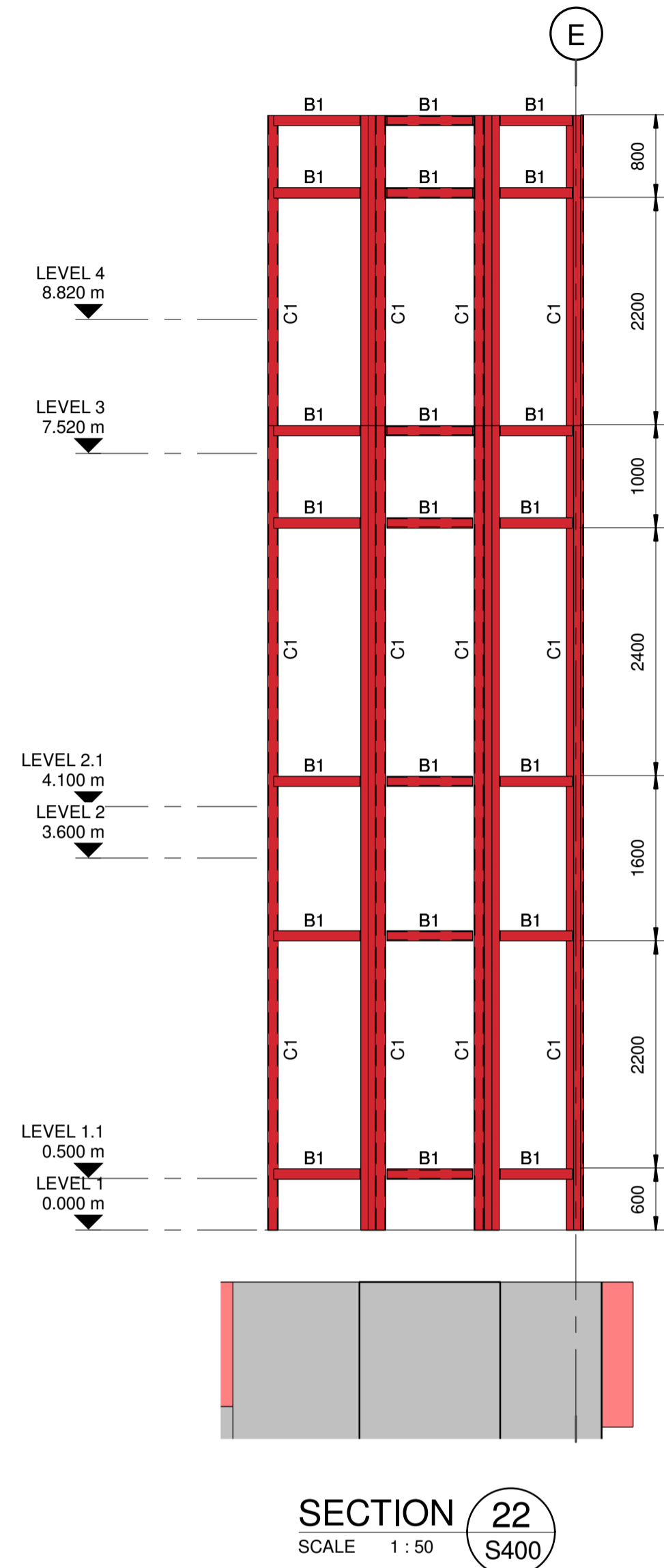
Sheet Name  
**TURRET DETAILS**

Scale	SCALE @ A1= As indicated		
Design	SPT	Verified	SO
Drawn	SEH	Approved	WRP
Project No.	6-DP315.20	Issue Date	24/03/2017
Revision	B	Sheet No.	S400

**STRUCTURAL**



**3D TURRET**



**NOT FOR CONSTRUCTION**

REVISIONS		
C	ISSUED FOR INFORMATION	04/04/2017
B	ISSUED FOR INFORMATION	24/03/2017
A	ISSUED FOR PRICING	24/02/2017

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- REFER TO SHEET S600 FOR STEELWORK SCHEDULES AND DETAILS
- REFER TO SHEET S500 FOR TIMBER DIAPHRAGM SCHEDULE AND DETAILS
- PROVIDE DPC BETWEEN ALL CONCRETE/BRICK & STEEL, TIMBER MEMBERS.



**OLD MUNICIPAL CHAMBERS**  
Repairs, Reconstruction & Restoration

Project  
**FULL RESTORATION DEVELOPED DESIGN**

Sheet Name  
**TIMBER DETAILS & SCHEDULES**

Scale  
**SCALE @ A1= As indicated**

Design SPT Verified SO

Drawn SEH Approved WRP

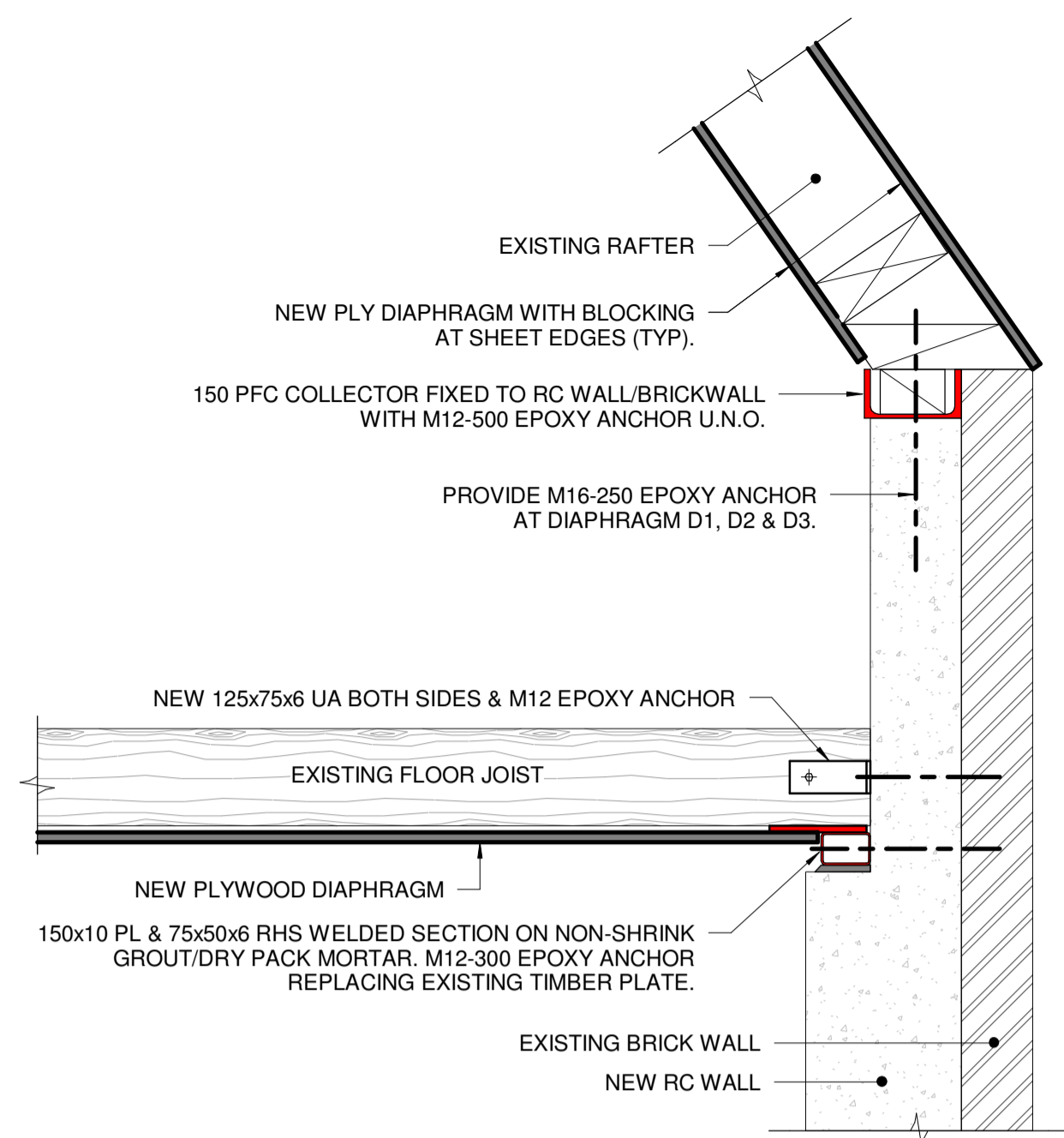
Project No. 6-DP315.20 Issue Date 24/03/2017

Revision C Sheet No. S500

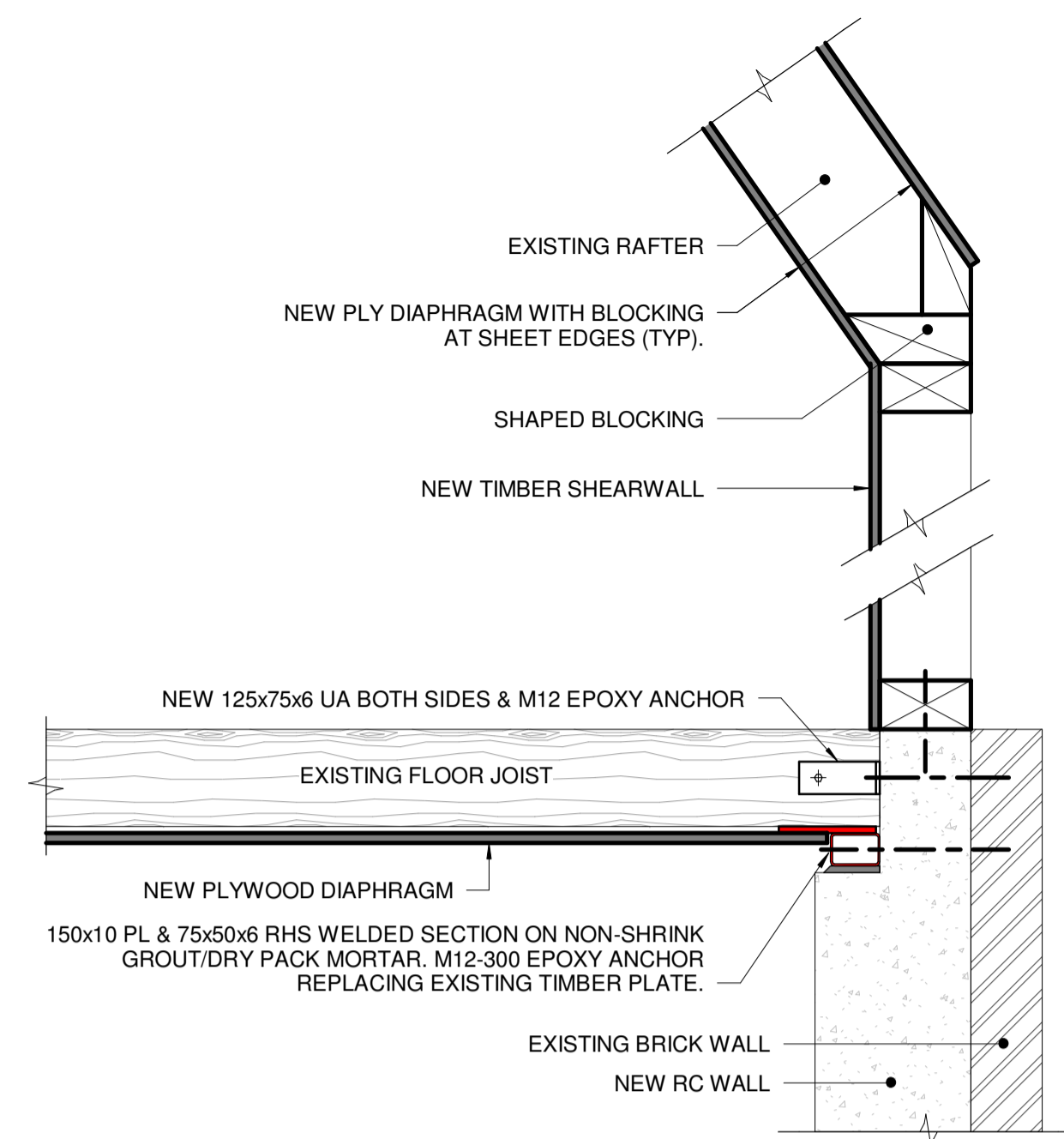
**STRUCTURAL**

DIAPHRAGM SCHEDULE			
MARK	END CHORDS	SHEATHING	NAILING AT SHEET EDGES
<b>ROOF DIAPHRAGM</b>			
TYPICAL U.N.O.	EXISTING OR WHERE DAMAGED REPLACE WITH 150x45 HYPAN	15mm PLY, F8 ONE SIDE	Ø3.15x90 @ 100CRS
<b>CEILING DIAPHRAGM</b>			
TYPICAL U.N.O.	150x45 SG8	15mm PLY, F8 ONE SIDE	Ø3.15x90 @ 50CRS
D1, D2, D3	150x90 HYPAN	15mm PLY, F8 BOTH SIDES	Ø3.15x90 @ 25CRS
D4	150x90 SG8	15mm PLY, F8 ONE SIDE	Ø3.15x90 @ 25CRS
<b>1ST FLOOR DIAPHRAGM</b>			
TYPICAL U.N.O.	REFER DETAIL 1	19mm PLY, F8 ONE SIDE	Ø3.15x90 @ 50CRS
<b>2ND FLOOR DIAPHRAGM</b>			
TYPICAL U.N.O.	REFER DETAIL 1	15mm PLY, F8 ONE SIDE	Ø3.15x90 @ 50CRS

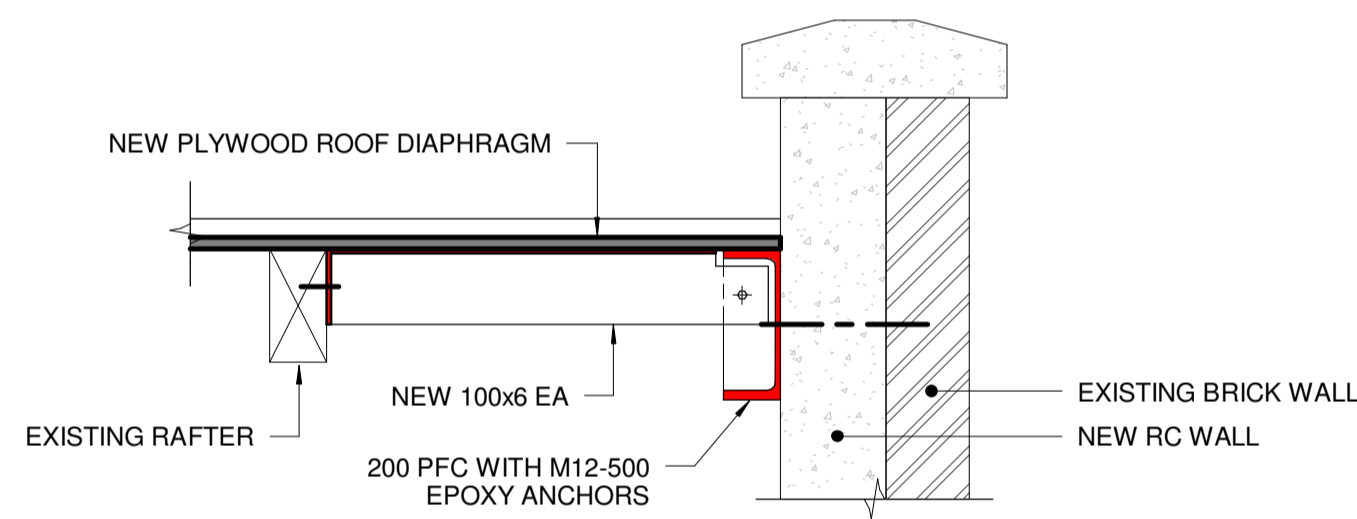
TIMBER SHEAR WALL SCHEDULE			
WALL MARK	END CHORDS	SHEATHING	NAILING @ SHEET EDGES
TW	140x90mm SG8	15mm PLY, F8, ONE SIDE	Ø3.15X 90 @ 50CRS
TW 2.1	140x90mm SG8	15mm PLY, F8, BOTH SIDES	Ø3.15X 90 @ 50CRS
TW 2.2	140x90mm SG8	15mm PLY, F8, BOTH SIDES	Ø3.15X 90 @ 50CRS
TW 2.3	140x90mm SG8	15mm PLY, F8, BOTH SIDES	Ø3.15X 90 @ 50CRS



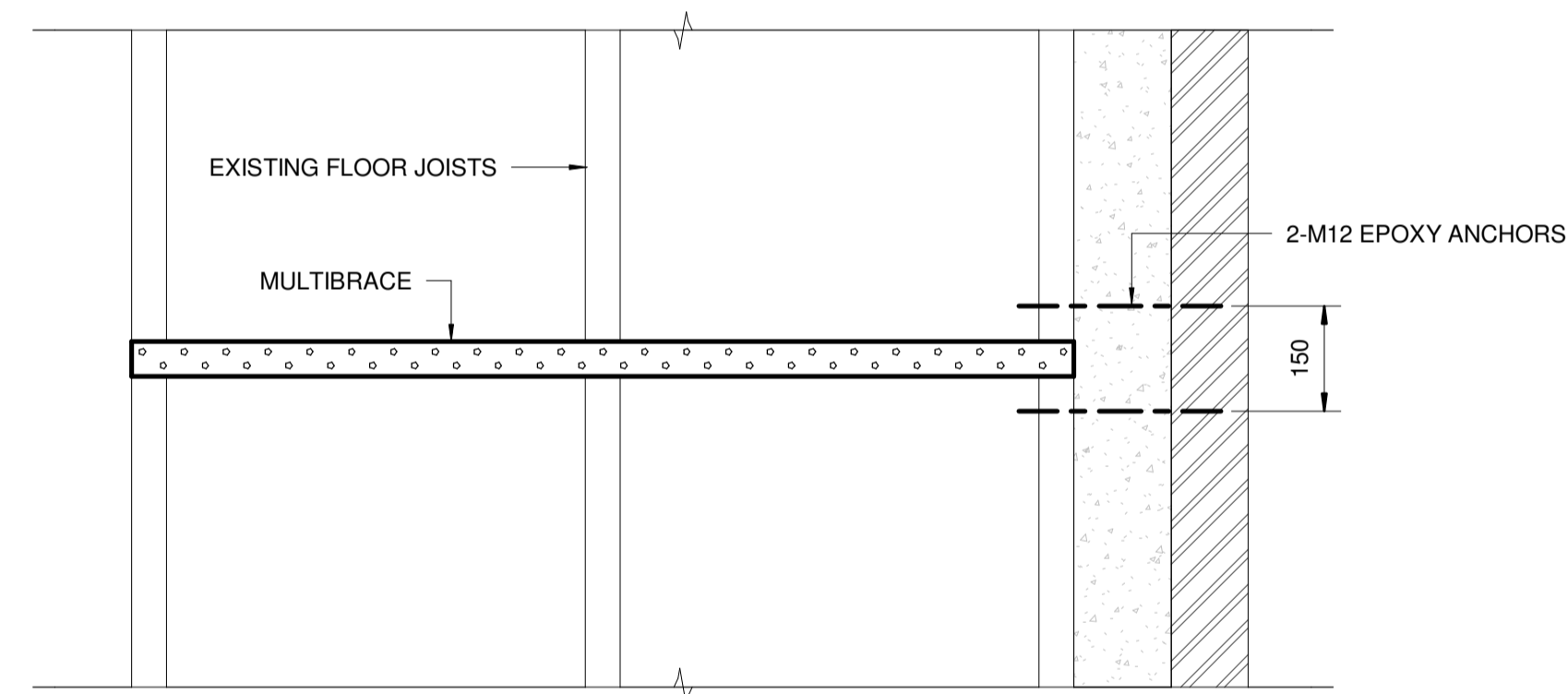
**DETAIL 1**  
SCALE 1 : 10  
S102



**DETAIL 2**  
SCALE 1 : 10  
S103

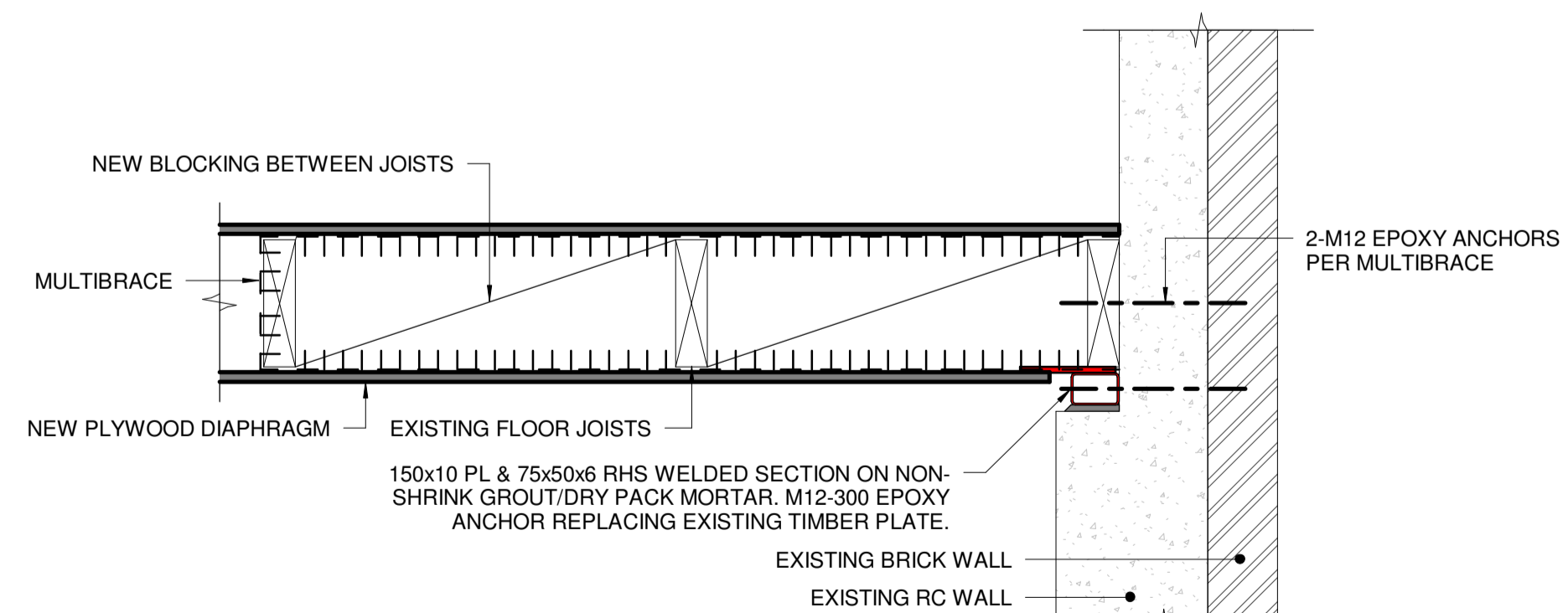


**DETAIL 3.1**  
SCALE 1 : 10  
S203



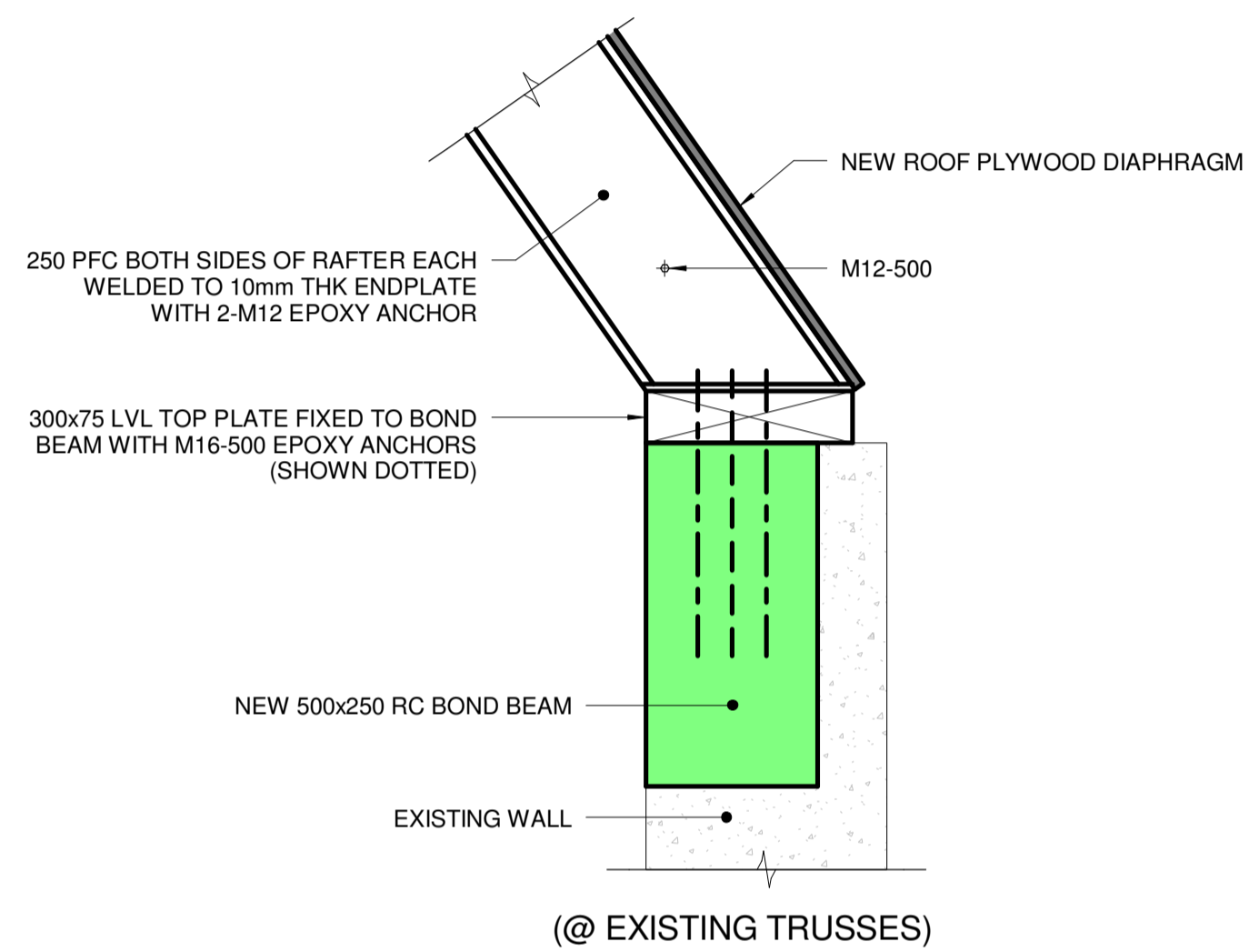
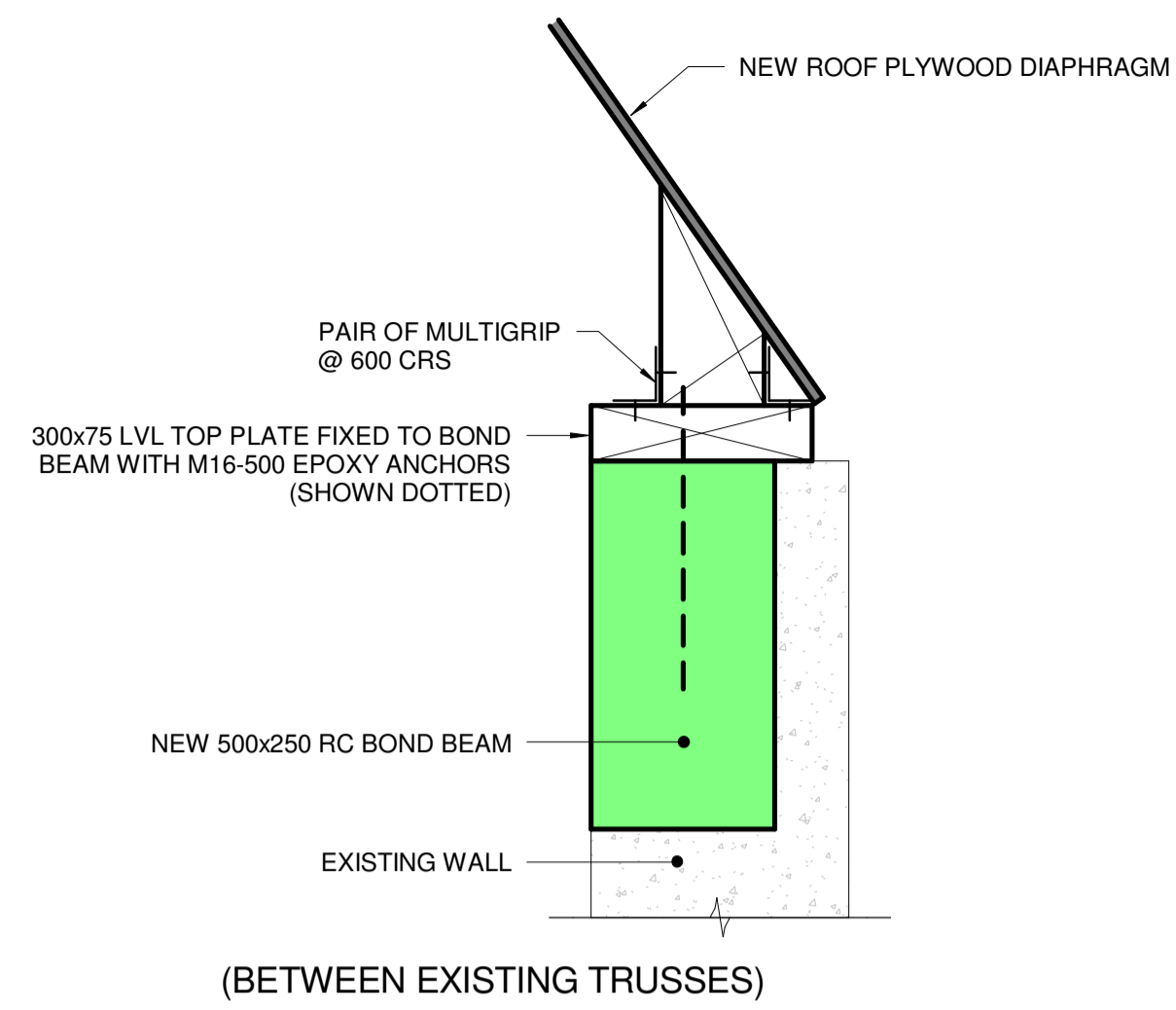
**DETAIL 3.2**  
SCALE 1 : 10  
S104

**PLAN**  
(WALL RESTRAINT @ 500 CRS WHERE FLOOR JOIST PARALLEL TO WALL)

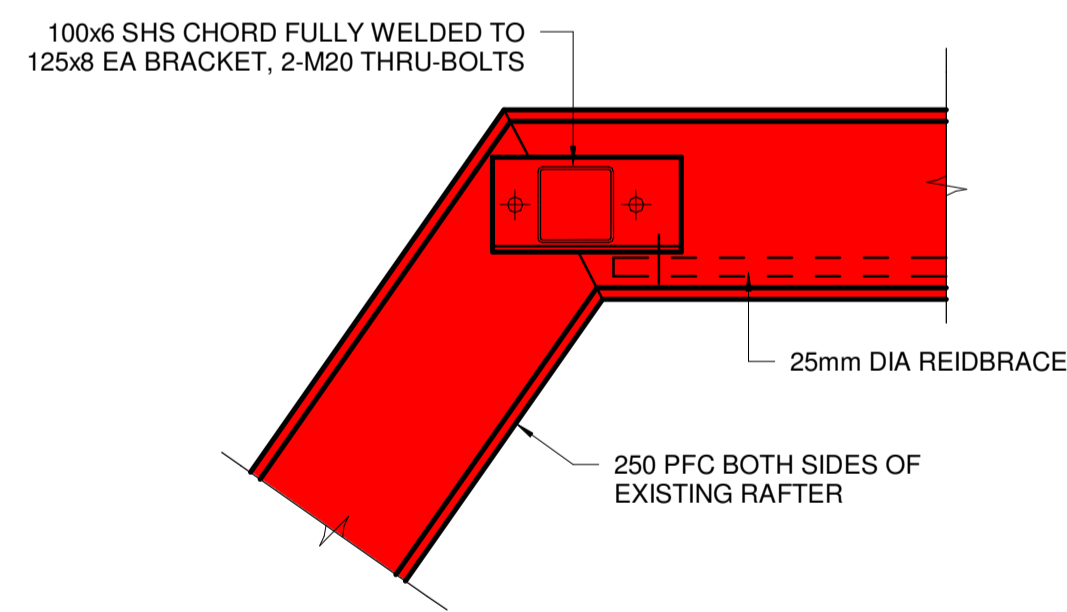


**SECTION**

**DETAIL 4**  
SCALE 1 : 10  
S102



DETAIL 5  
SCALE 1:10  
S207

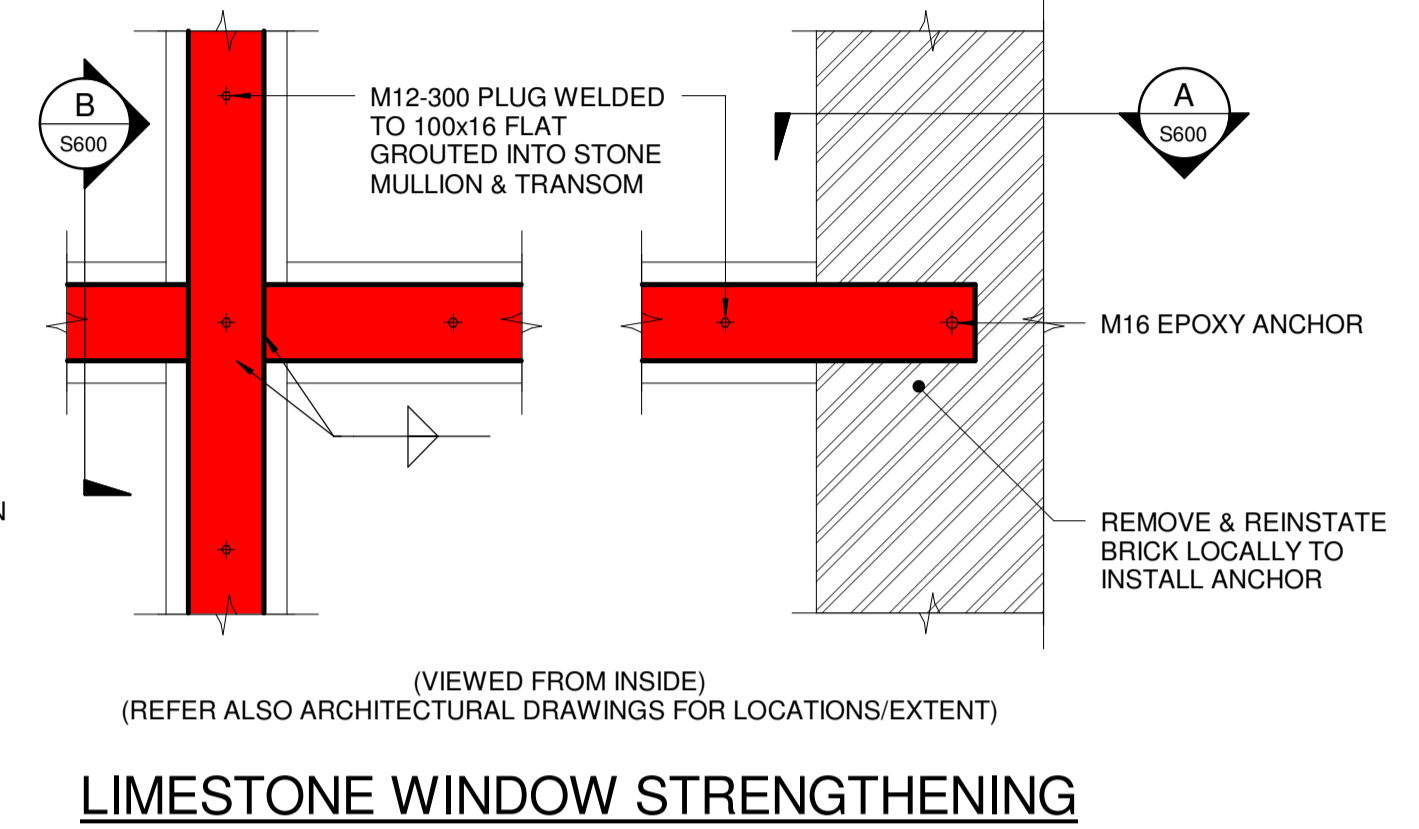
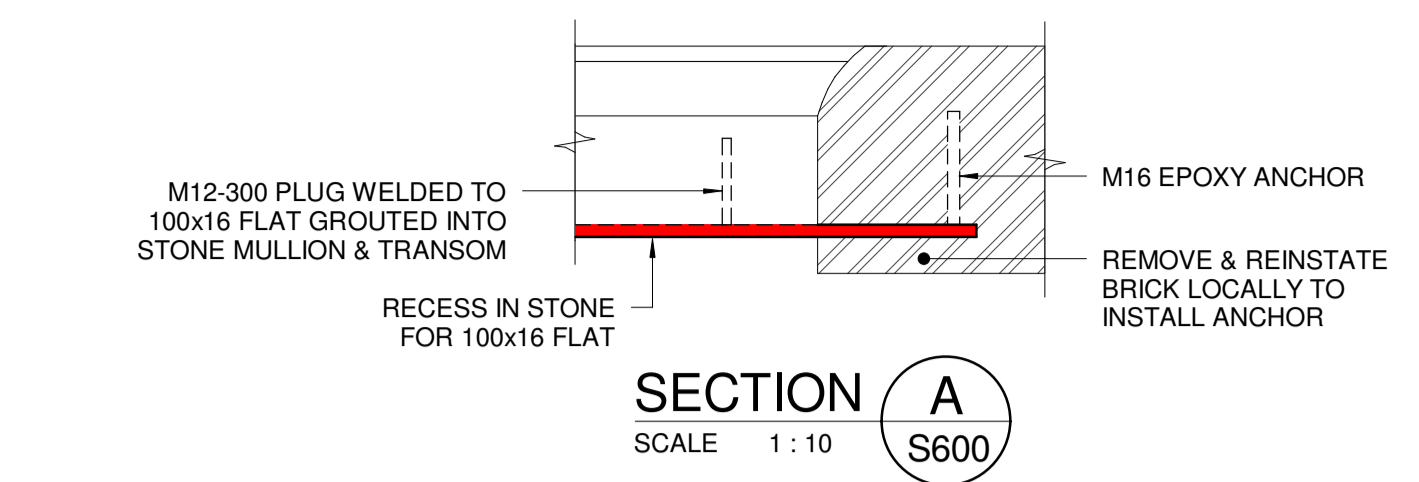
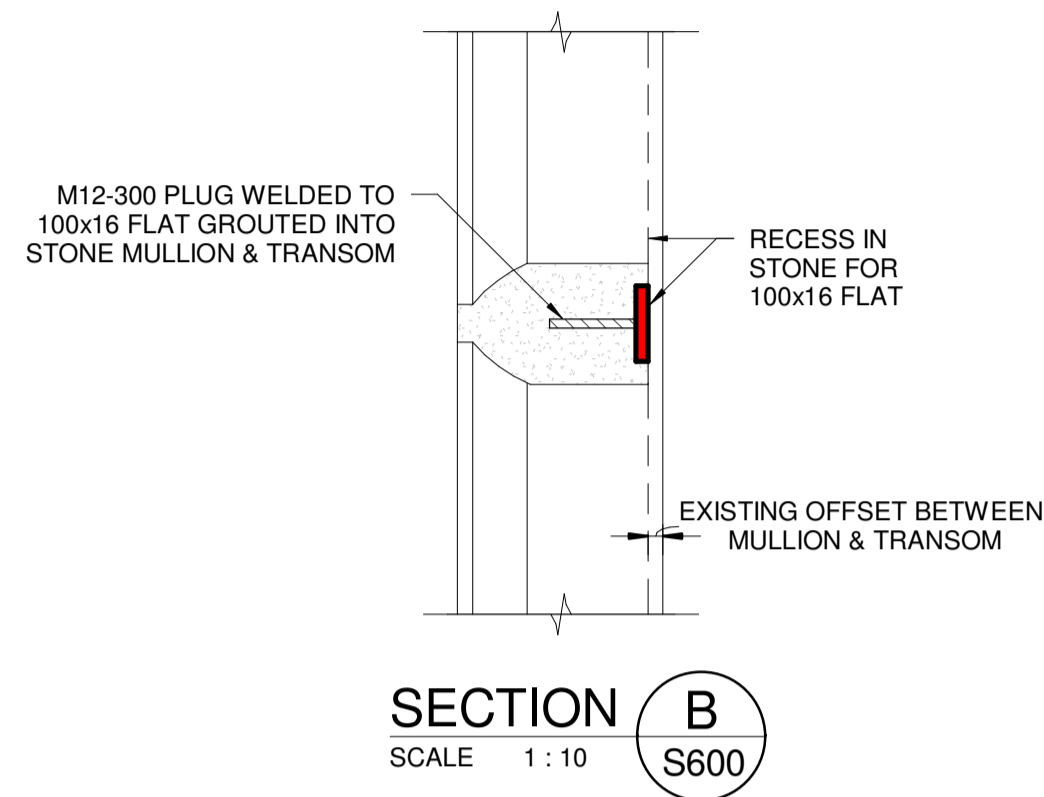


DETAIL 6  
SCALE 1:10  
S207

STEEL BEAM SCHEDULE	
BEAM MARK	BEAM TYPE
B1	100x100x9.0 SHS

STEEL COLUMN SCHEDULE	
COLUMN MARK	COLUMN SIZE
C1	100x100x9.0 SHS
C2	200x200x9.0 SHS

NOTE: FOR ALL STEEL MEMBERS ALLOW TO FIX TO EXISTING WITH M12-300 U.N.O.



NOTE: ALL WINDOW STRENGTHENING TO BE WITH STAINLESS STEEL.

DO NOT SCALE  
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING ANY WORK.  
ALL STRUCTURAL DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, CIVIL, FIRE, MECHANICAL & ELECTRICAL DRAWINGS.

NOT FOR CONSTRUCTION

REVISIONS		
C	ISSUED FOR INFORMATION	04/04/2017
B	ISSUED FOR INFORMATION	24/03/2017
A	ISSUED FOR PRICING	24/02/2017

NOTES

- ALL DIMENSIONS TO BE CONFIRMED ON SITE
- ALL GRIDLINES ARE SET BASED ON ARCHITECTS MODEL
- REFER TO SHEET S700 FOR CONCRETE SHEAR WALL SCHEDULE AND DETAILS
- REFER TO SHEET S600 FOR STEELWORK SCHEDULES AND DETAILS
- REFER TO SHEET S500 FOR TIMBER DIAPHRAGM SCHEDULE AND DETAILS
- PROVIDE DPC BETWEEN ALL CONCRETE/BRICK & STEEL, TIMBER MEMBERS.



OLD MUNICIPAL CHAMBERS  
Repairs, Reconstruction & Restoration

Project  
FULL RESTORATION  
DEVELOPED DESIGN

Sheet Name  
CHAMBER ROOF  
DETAILS & STEELWORK  
SCHEDULES

Scale  
SCALE @ A1= 1:10

Design SPT Verified SO

Drawn SEH Approved WRP

Project No. 6-DP315.20 Issue Date 24/03/2017

Revision C Sheet No. S600

STRUCTURAL

