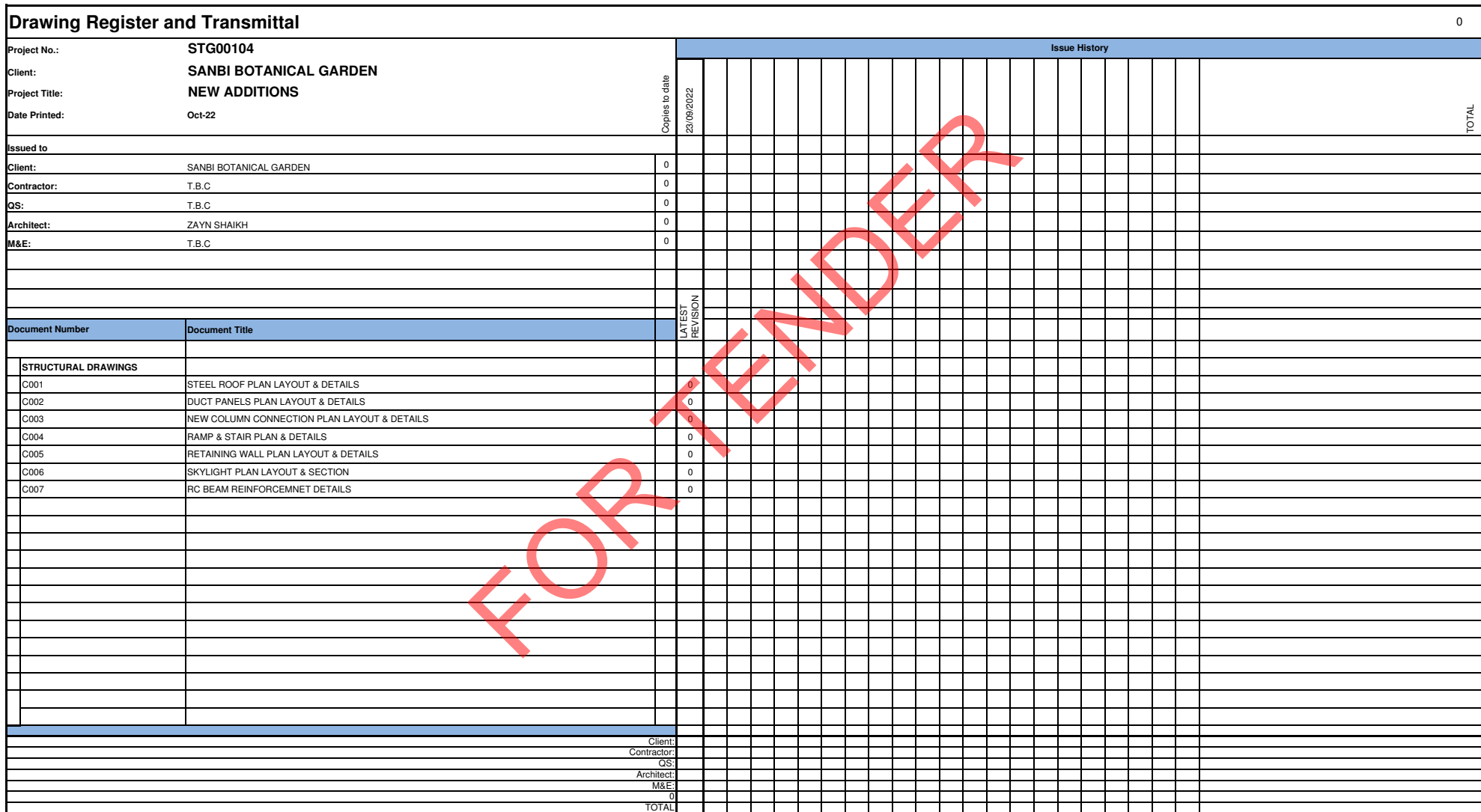
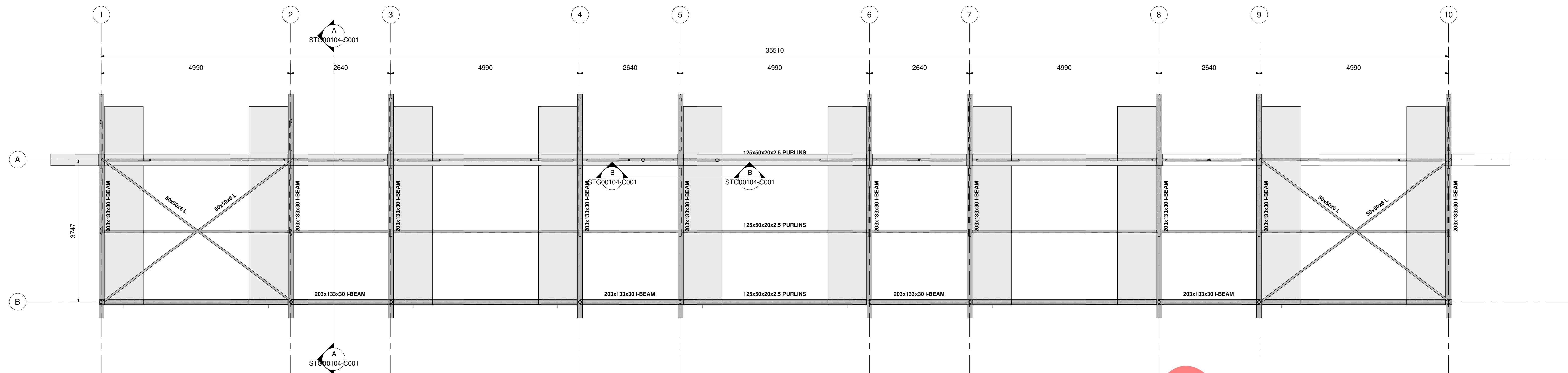
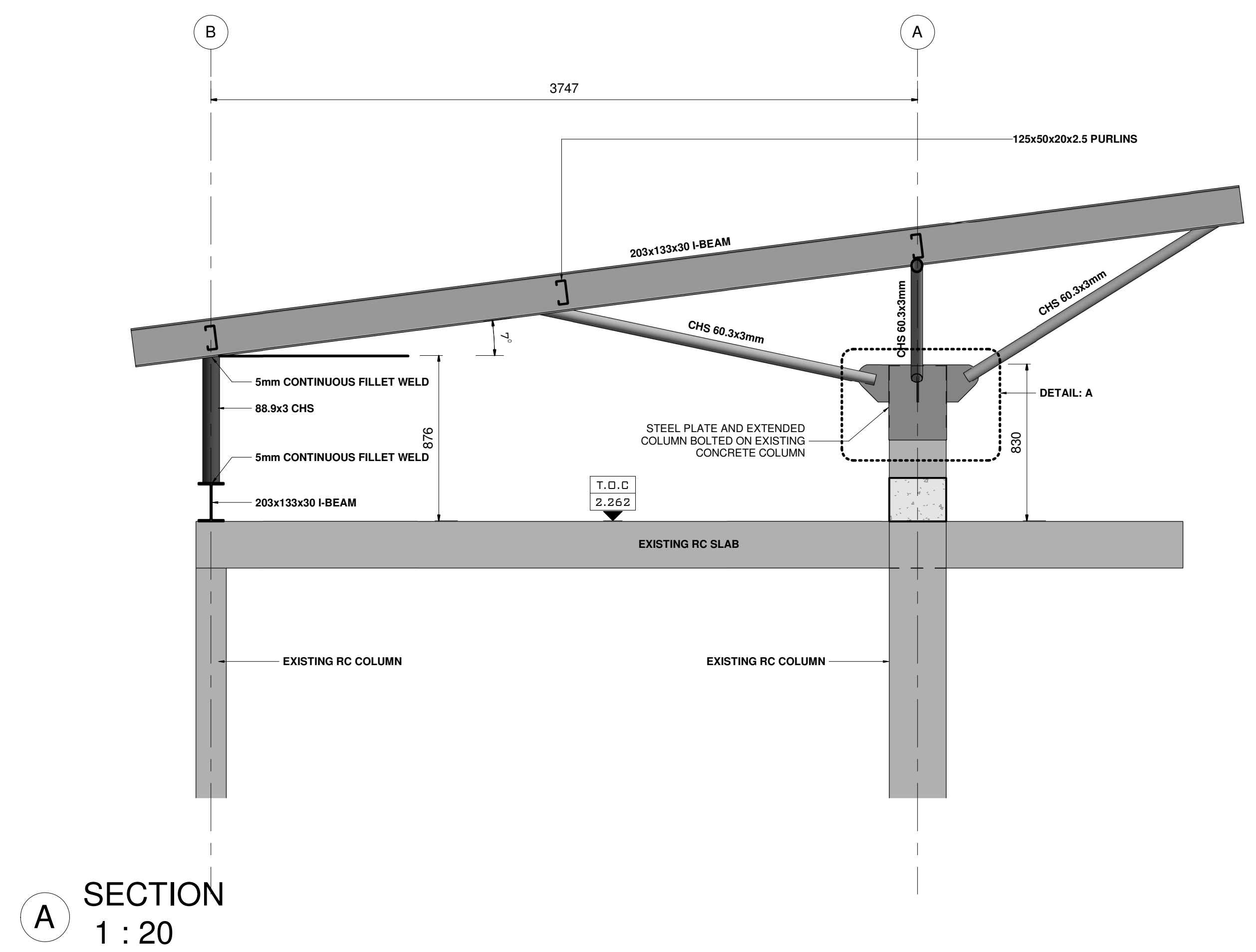




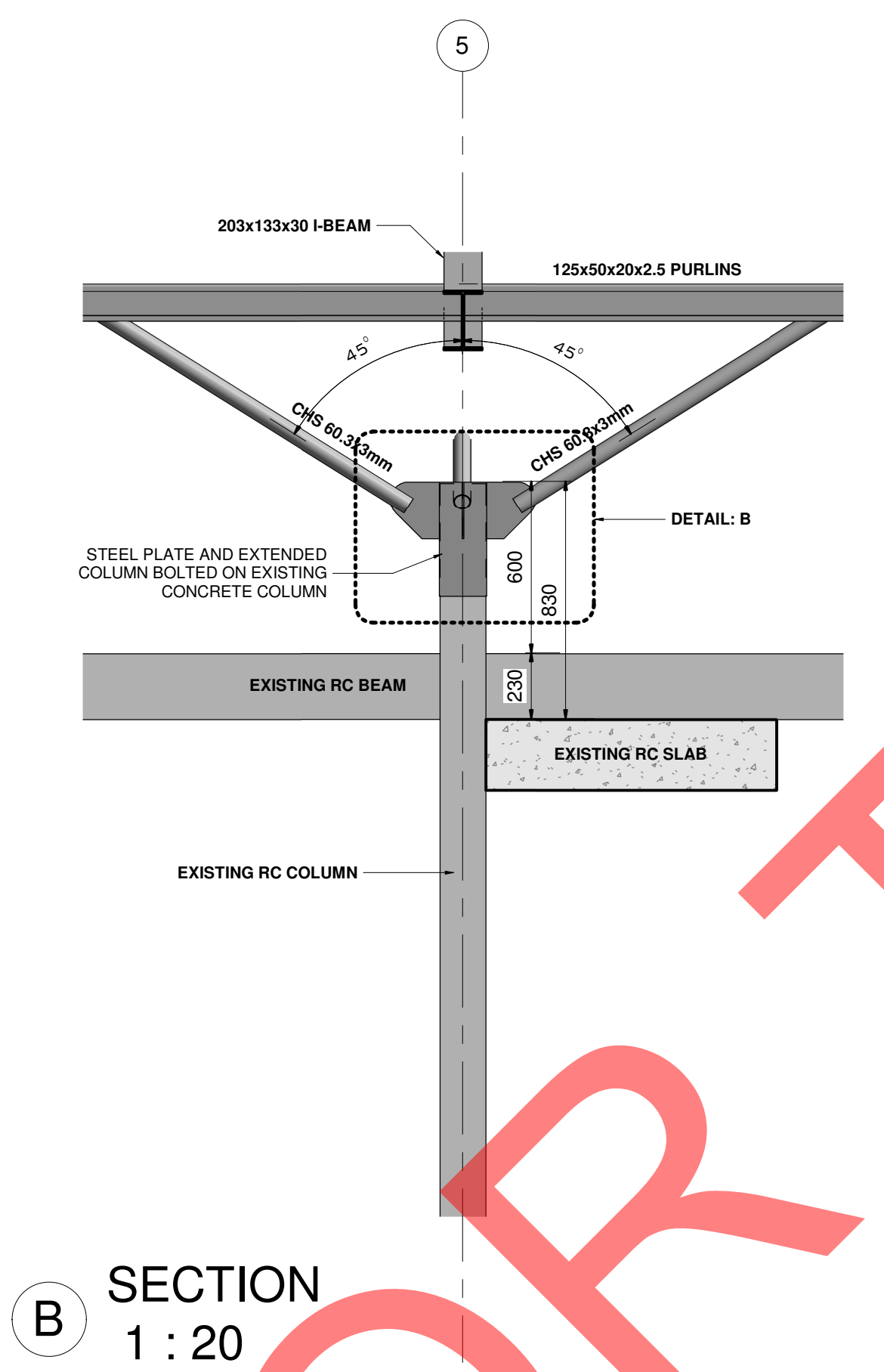
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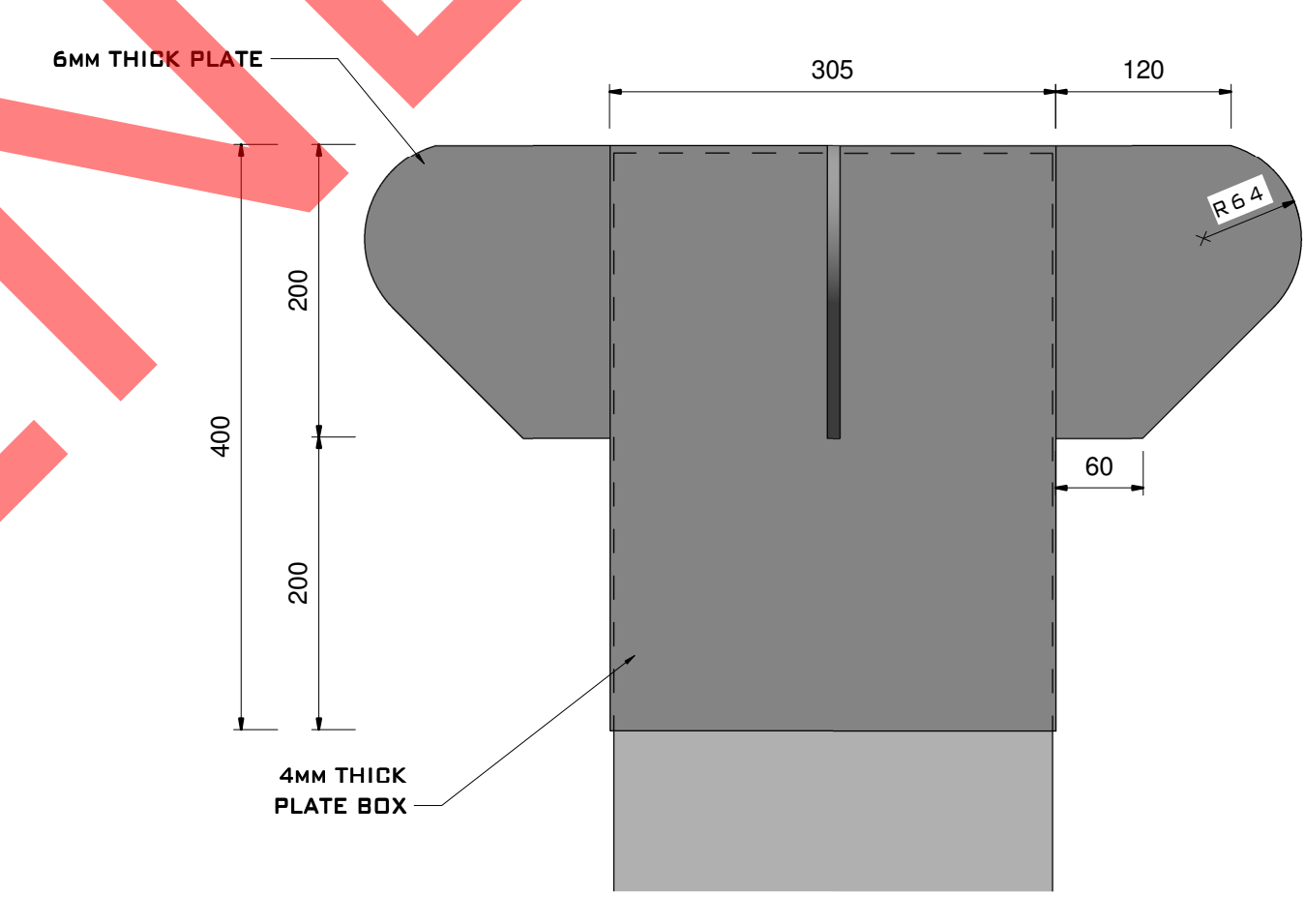
1 PLAN LAYOUT : CARPORT STEEL ROOF
1 : 50



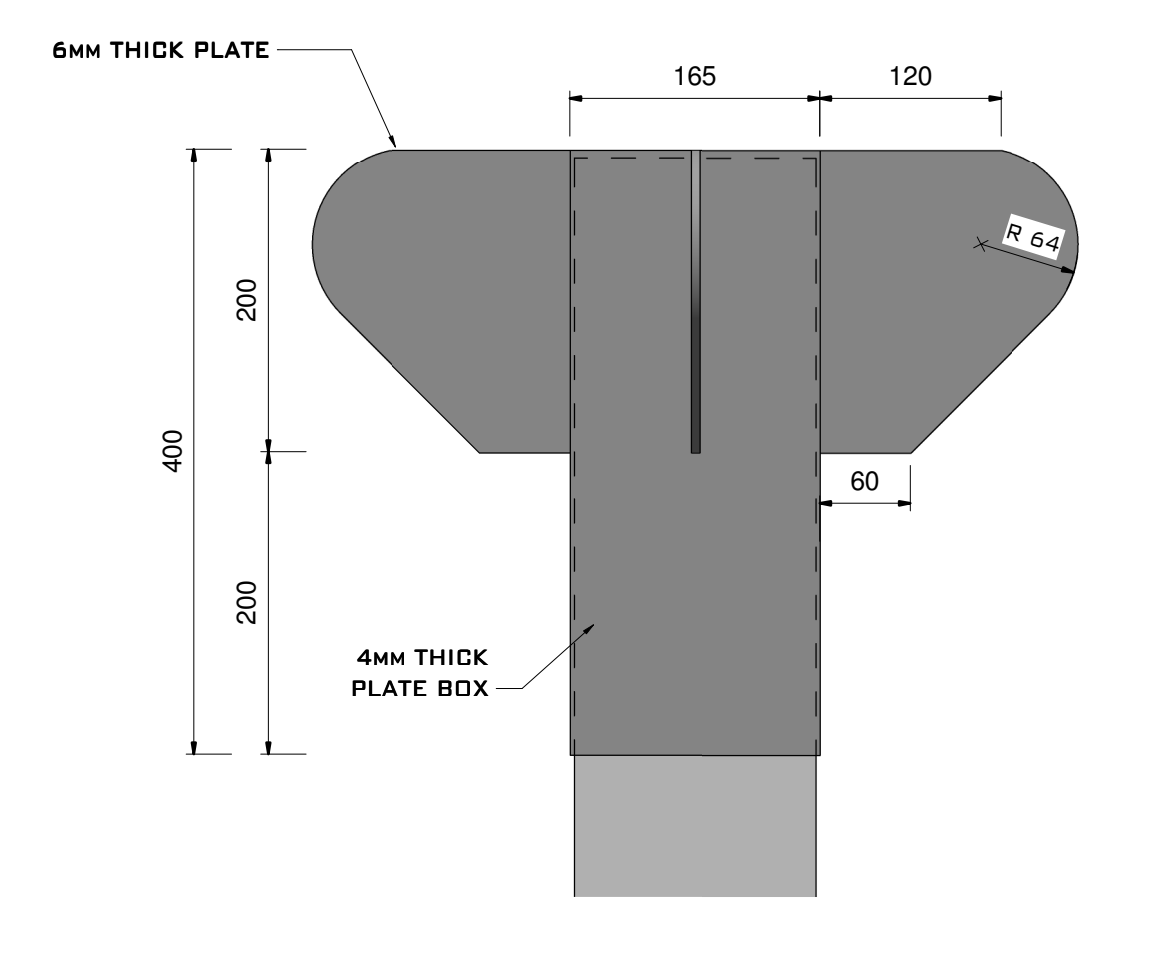
A SECTION
1 : 20



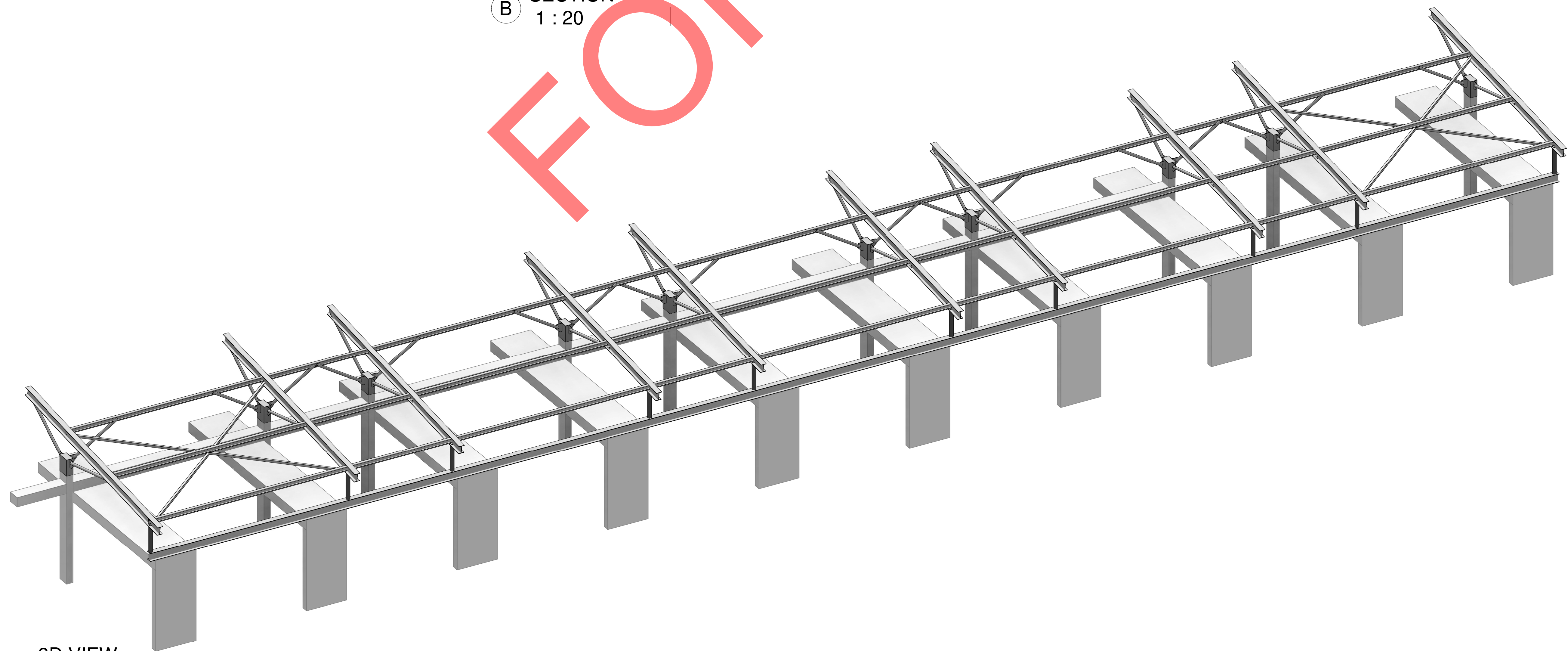
B SECTION
1 : 20



3 DETAIL: A
1 : 5



4 DETAIL: B
1 : 5



2 3D VIEW

APPROVED
NAME _____ SIGNATURE _____
PR. NO. _____ DATE _____

NOTE GENERAL

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL ARCHITECTS, ENGINEERS AND SPECIALISTS' DRAWINGS WITH THE RELEVANT SPECIFICATIONS.
2. DESIGN MATERIALS USED AND METHOD OF CONSTRUCTION TO BE IN ACCORDANCE WITH: SANS 0100, 0137, 0160 - 0164 AS APPLICABLE.
3. THIS DRAWING NOT TO BE SCALED.
4. ALL EXPOSED CORNERS TO BE CHAMFERED 25mm x 25mm.
5. ALL LEVELS AND DIMENSIONS MUST BE CHECKED ON SITE BEFORE CONSTRUCTION COMMENCES. ANY DISCREPANCIES MUST BE REPORTED TO THE SITE ENGINEER.

REINFORCED CONCRETE

1. THE APPLICABLE STANDARD SPECIFICATION IS SANS 1200 G - 1982 WHICH SHOULD BE READ IN CONJUNCTION WITH THE VARIATIONS AND ADDITIONS CONTAINED IN THE PROJECT SPECIFICATION FOR CONCRETE (STRUCTURAL).
2. CONCRETE COVER TO REINFORCEMENT AND CONCRETE STRENGTH TO BE AS INDICATED BELOW. COVER IS GIVEN TO THE NEAREST FACE. MINIMUM BAR COVER TO BE MAXIMUM OF BAR DIAMETER AND AS SHOWN BELOW. SPECIFIED COVER TO BE MAINTAINED USING CEMENT MORTAR COVER BLOCKS OR APPROVED PLASTIC SPACERS

ELEMENT	CONCRETE STRENGTH AT 28 DAYS (MPa)	COVER mm
FOUNDATIONS	25	40
COLUMNS	30	30
BEAMS	25	25
SLABS	25	25
WALLS	30	30

3. ALL AGGREGATE TO BE 19mm UNLESS OTHERWISE SPECIFIED.
4. CONCRETE DESIGN MIXES TO BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
5. CUBE TESTS TO BE CARRIED OUT ON SITE AND LOGGED WITH POSITION AND DATE. CUBES TO BE TAKEN FOR EACH TYPE OF ELEMENT, AT LEAST ONE SET DAILY AND AT LEAST ONE SET EVERY 50m³.
6. REINFORCEMENT TO BE IN ACCORDANCE WITH SANS 920 AND SHALL BE BENT IN ACCORDANCE WITH SANS 92.
7. ALL CAST IN ITEMS SHALL BE FREE OF OIL, GREASE, DIRT OR ANY OTHER MATERIAL, WHICH MAY IMPAIR THE BOND WITH THE CONCRETE. CONTRACTOR TO REFER TO ARCHITECT/SPECIALIST DRAWINGS FOR DETAILS POSITIONS OF OPENINGS, SLEEVES, CONDUITING, ETC. FOR STORMWATER, SEWERAGE AND OTHER SERVICES.
8. FOUNDATIONS HAVE BEEN DESIGNED FOR AN ALLOWABLE GROUND BEARING CAPACITY OF 4Pa. 150
9. ALL FOUNDATION EXCAVATIONS TO BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO CONCRETING.
10. REMOVAL OF FORMWORK TO BE IN ACCORDANCE WITH THE PROJECT SPECIFICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR BACK-PROPPING ON MULTI-STORY SLAB CONSTRUCTION

ELEMENTS HAVE BEEN DESIGNED FOR THE FOLLOWING NOMINAL LOAD:	
	kN/m ²
	kN/m ²
	kN/m ²
DATUM =	

Project Status			
REVISIONS			
REV	DATE	DESCRIPTION	BY
A	2022/09/23	ISSUED FOR TENDER	W.R

CLIENT

Sanbi Botanical Garden

CONSULTANT

ADQ
AFRICAN DYNAMIC QUALITY
ENGINEERING PROJECTS

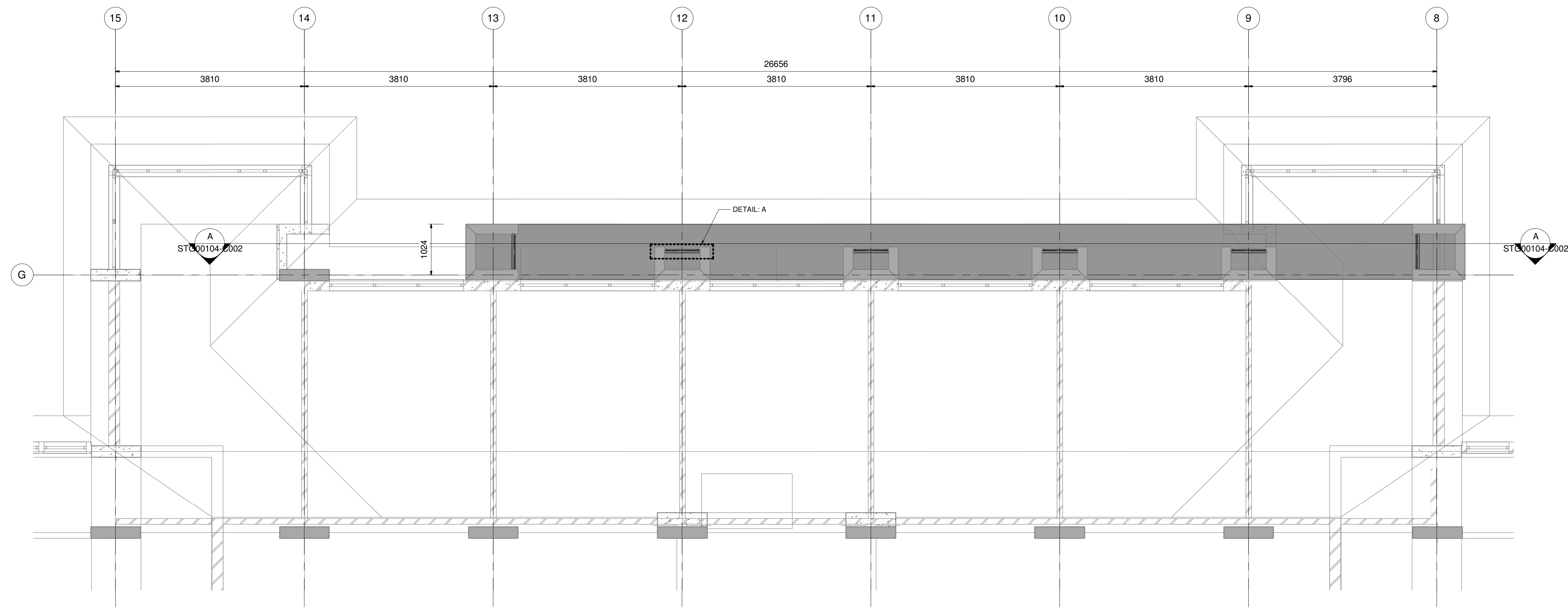
info@adqengineering.co.za
Tel: 012 030 0355

www.adqengineering.co.za

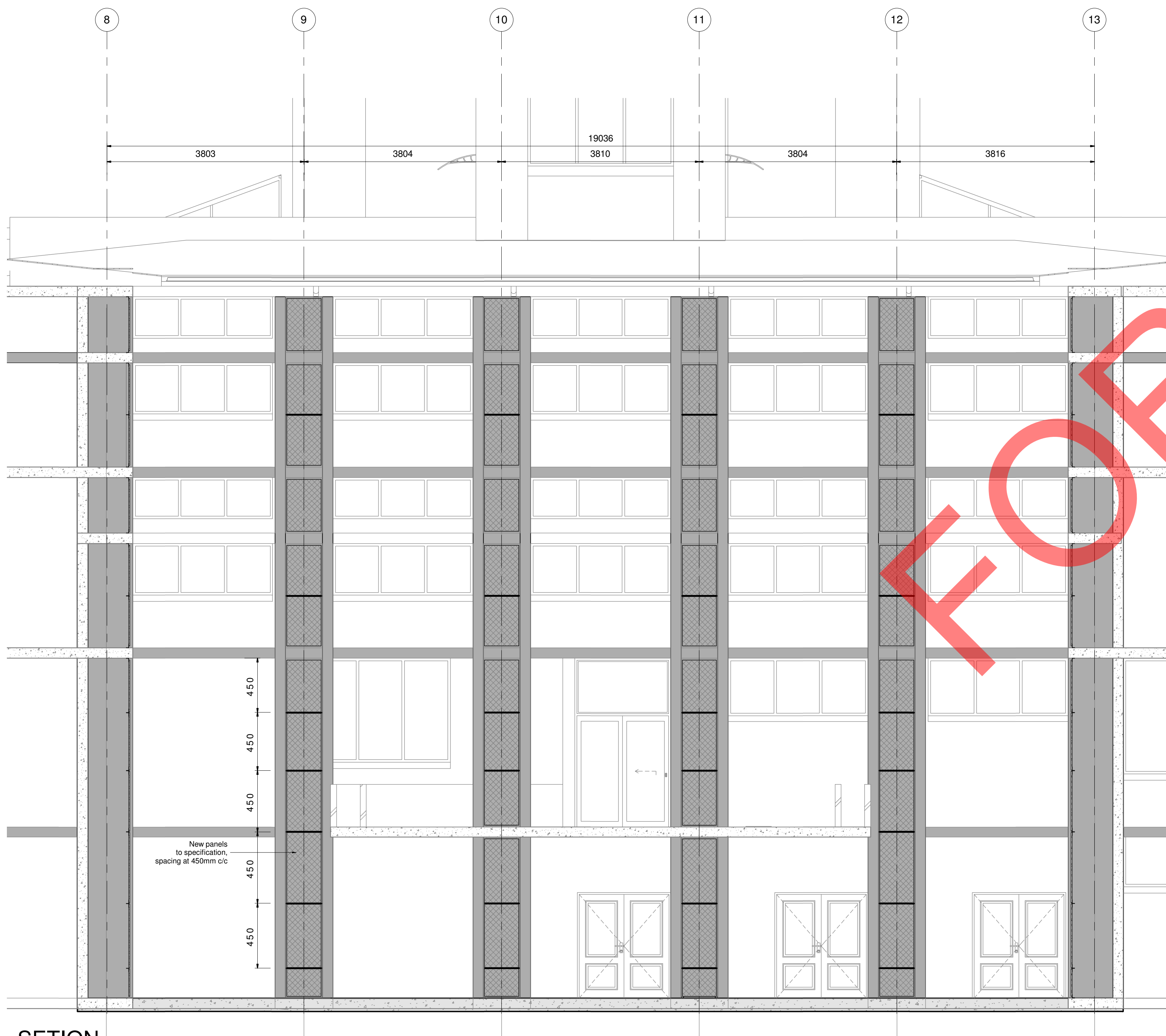
PROJECT DESCRIPTION

PROPOSED NEW ADDITIONS

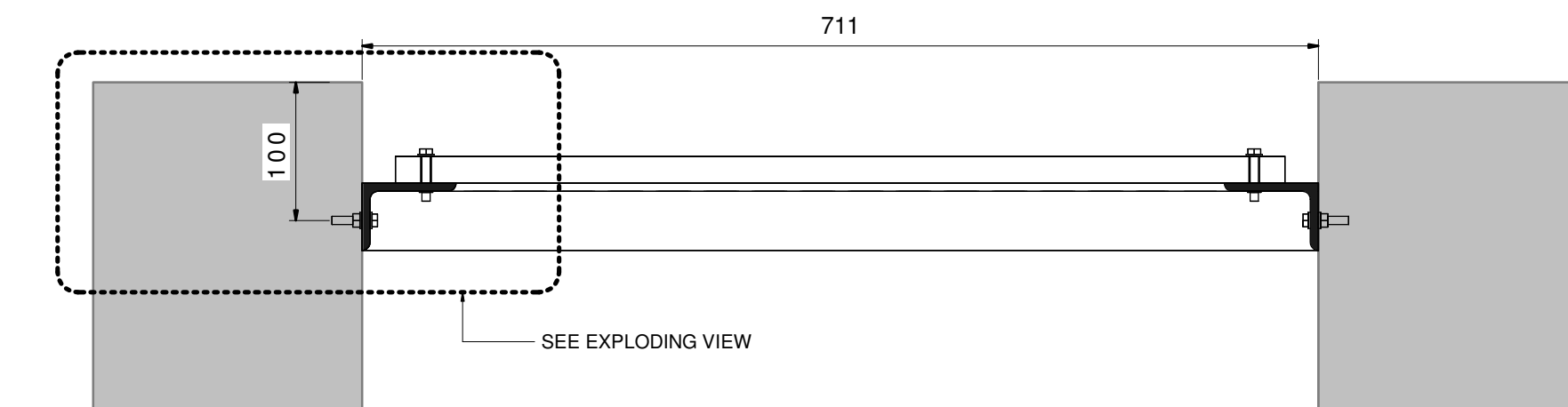
DRAWING TITLE			
NEW CARPORT STEEL ROOF ISSUED FOR TENDER			
DATE	2022/09/23	DRAWN BY	L.T
CHECKED BY	W.R	DESIGNED BY	W.R
DRAWING SIZE	A0	SCALE	As indicated
DRAWING NUMBER	STG00104-C001	REV	A



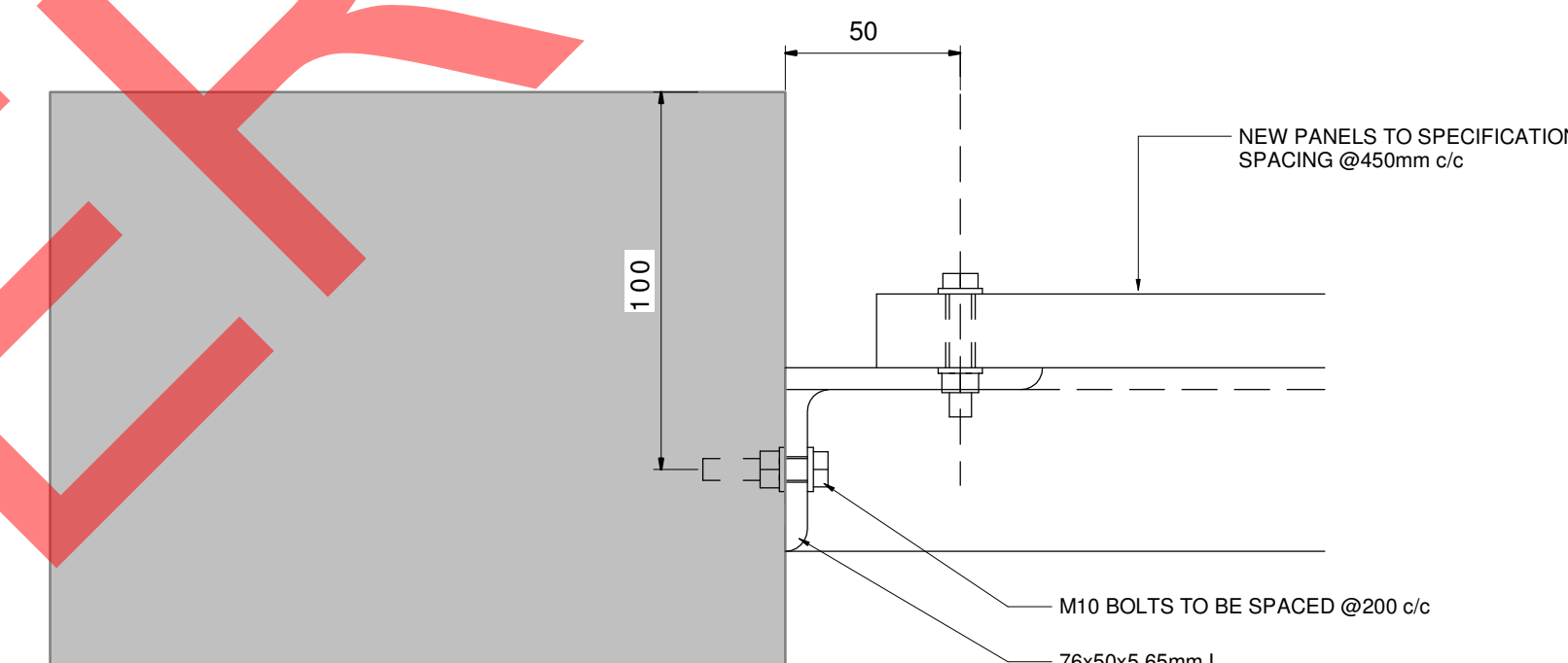
1 PLAN VIEW: NEW PANELS POSITION
1 : 50



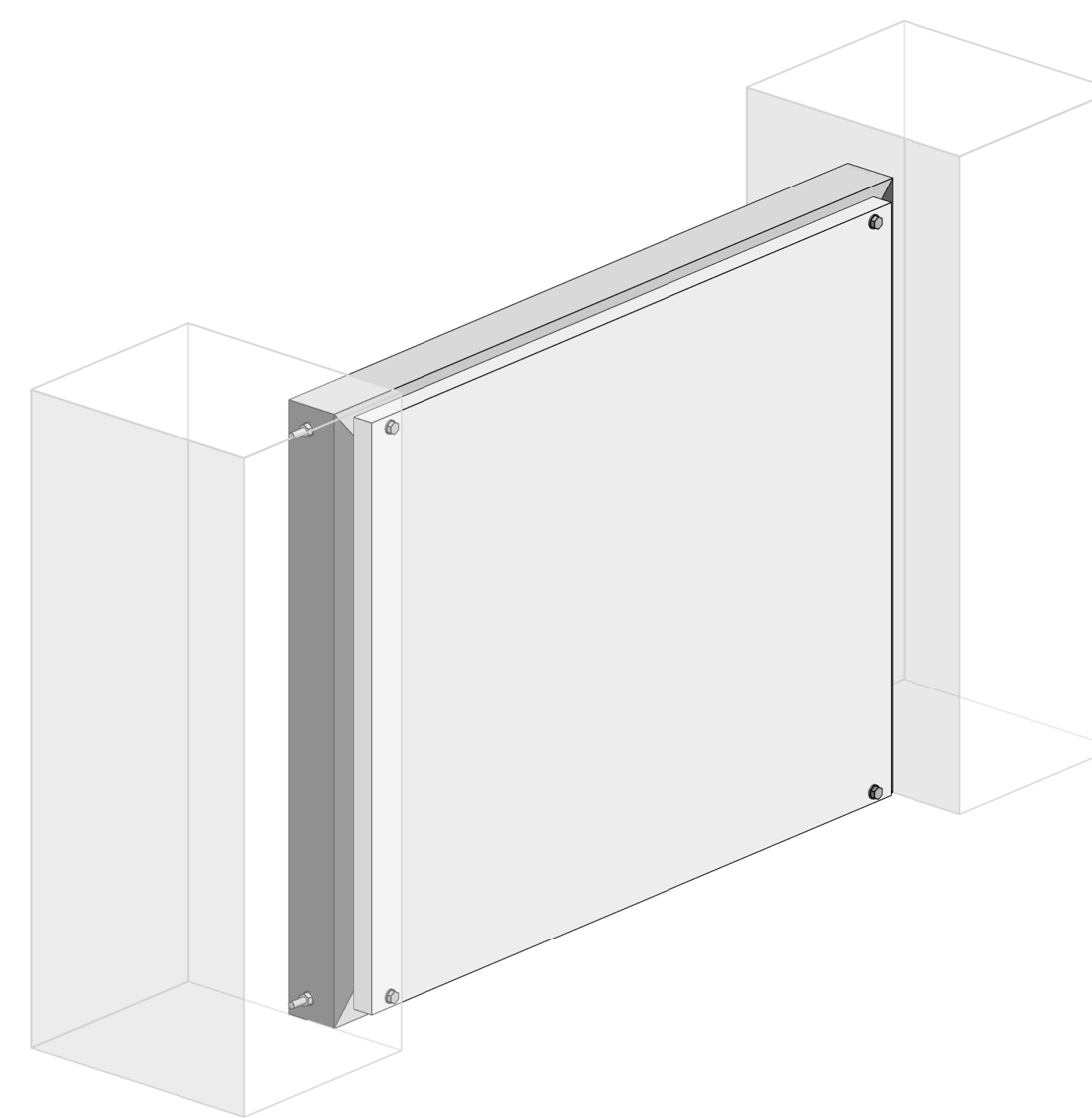
A SECTION
1 : 50



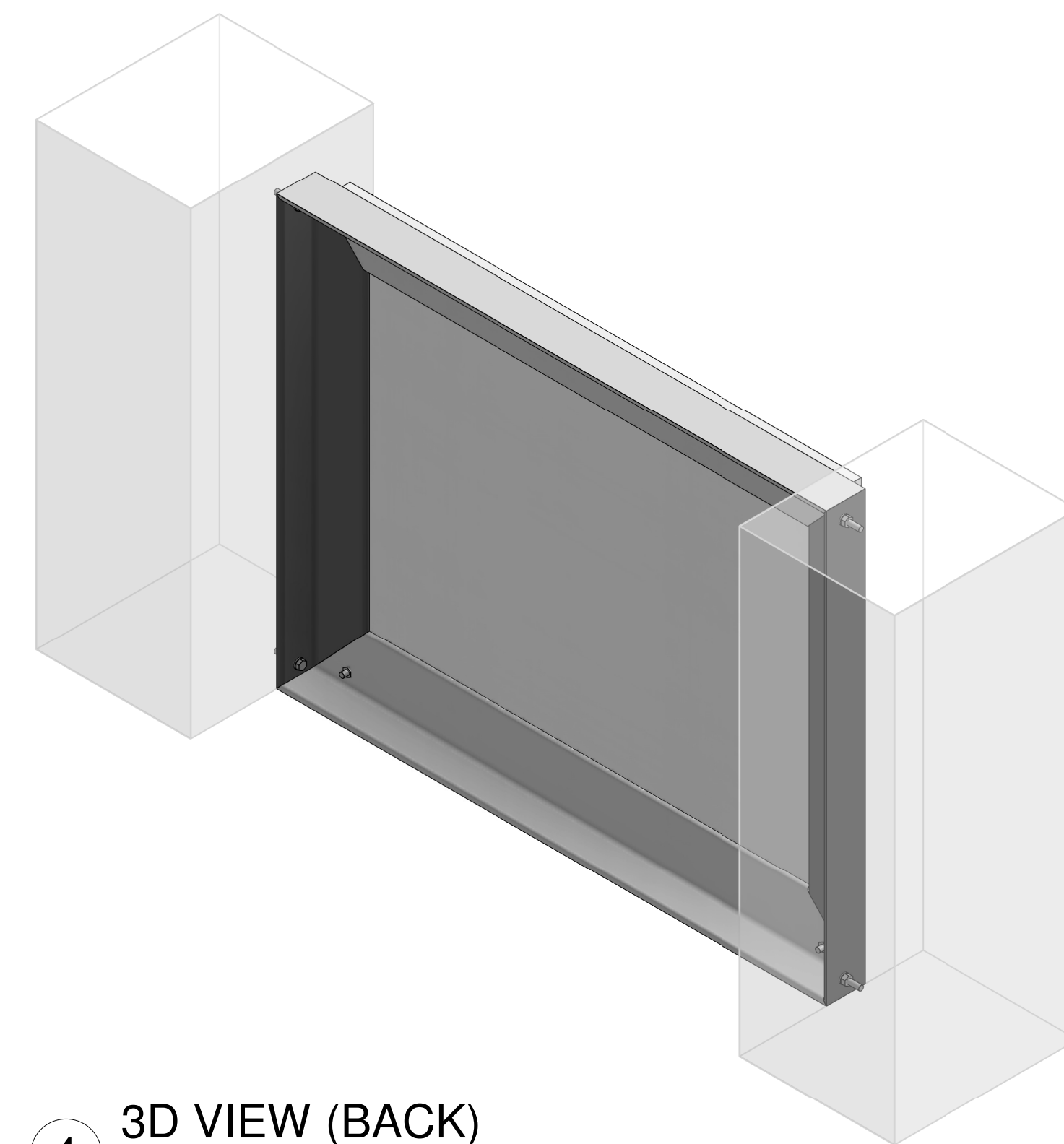
2 DETAIL: A
1 : 5



5 EXPLODING VIEW
1 : 2



3 3D VIEW (FRONT)



4 3D VIEW (BACK)

APPROVED
NAME _____ SIGNATURE _____
PR. NO. _____ DATE _____

NOTE GENERAL

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL ARCHITECT'S, ENGINEERS AND SPECIALIST'S DRAWINGS WITH THE RELEVANT SPECIFICATIONS.
2. DESIGN MATERIALS USED AND METHOD OF CONSTRUCTION TO BE IN ACCORDANCE WITH: SANS 0100, 0137, 0160 - 0164 AS APPLICABLE.
3. THIS DRAWING NOT TO BE SCALED.
4. ALL EXPOSED CORNERS TO BE CHAMFERED 25mm x 25mm.
5. ALL LEVELS AND DIMENSIONS MUST BE CHECKED ON SITE BEFORE CONSTRUCTION COMMENCES. ANY DISCREPANCIES MUST BE REPORTED TO THE SITE ENGINEER.

REINFORCED CONCRETE

1. THE APPLICABLE STANDARD SPECIFICATION IS SANS 5200 G - 1982 WHICH SHOULD BE READ IN CONJUNCTION WITH THE VARIATIONS AND ADDITIONS CONTAINED IN THE PROJECT SPECIFICATION FOR CONCRETE (STRUCTURAL).
2. CONCRETE COVER TO REINFORCEMENT AND CONCRETE STRENGTH TO BE AS INDICATED BELOW. COVER IS GIVEN TO THE NEAREST FACE. MINIMUM BAR COVER TO BE MAXIMUM OF BAR DIAMETER AND AS SHOWN BELOW. SPECIFIED COVER TO BE MAINTAINED USING CEMENT MORTAR COVER BLOCKS OR APPROVED PLASTIC SPACERS

ELEMENT	CONCRETE STRENGTH AT 28 DAYS (MPa)	COVER mm
FOUNDATIONS	25	40
COLUMNS	30	30
BEAMS	25	25
SLABS	25	25
WALLS	30	30

3. ALL AGGREGATE TO BE 19mm UNLESS OTHERWISE SPECIFIED.
4. CONCRETE DESIGN MIXES TO BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
5. CUBE TESTS TO BE CARRIED OUT ON SITE AND LOGGED WITH POSITION AND DATE. CUBES TO BE TAKEN FOR EACH TYPE OF ELEMENT, AT LEAST ONE SET DAILY AND AT LEAST ONE SET EVERY 50m³.
6. REINFORCEMENT TO BE IN ACCORDANCE WITH SANS 920 AND SHALL BE BENT IN ACCORDANCE WITH SANS 92.
7. ALL CAST IN ITEMS SHALL BE FREE OF OIL, GREASE, DIRT OR ANY OTHER MATERIAL WHICH MAY IMPAIR THE BOND WITH THE CONCRETE. CONTRACTOR TO REFER TO ARCHITECT/SPECIALIST DRAWINGS FOR DETAIL POSITIONS OF OPENINGS, SLEEVES, CONDUITING, ETC. FOR STORMWATER, SEWERAGE AND OTHER SERVICES.
8. FOUNDATIONS HAVE BEEN DESIGNED FOR AN ALLOWABLE GROUND BEARING CAPACITY OF 4Pa. 150
9. ALL FOUNDATION EXCAVATIONS TO BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO CONCRETING.
10. REMOVAL OF FORMWORK TO BE IN ACCORDANCE WITH THE PROJECT SPECIFICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR BACK-PROPPING ON MULTI-STOREY SLAB CONSTRUCTION

ELEMENTS HAVE BEEN DESIGNED FOR THE FOLLOWING NOMINAL LOAD:	
	kN/m ²
	kN/m ²
	kN/m ²
DATUM =	

Project Status			
REVISIONS			
REV	DATE	DESCRIPTION	BY
A	2022/09/23	ISSUED FOR TENDER	W.R

CLIENT

Sanbi Botanical Garden

CONSULTANT

ADQ
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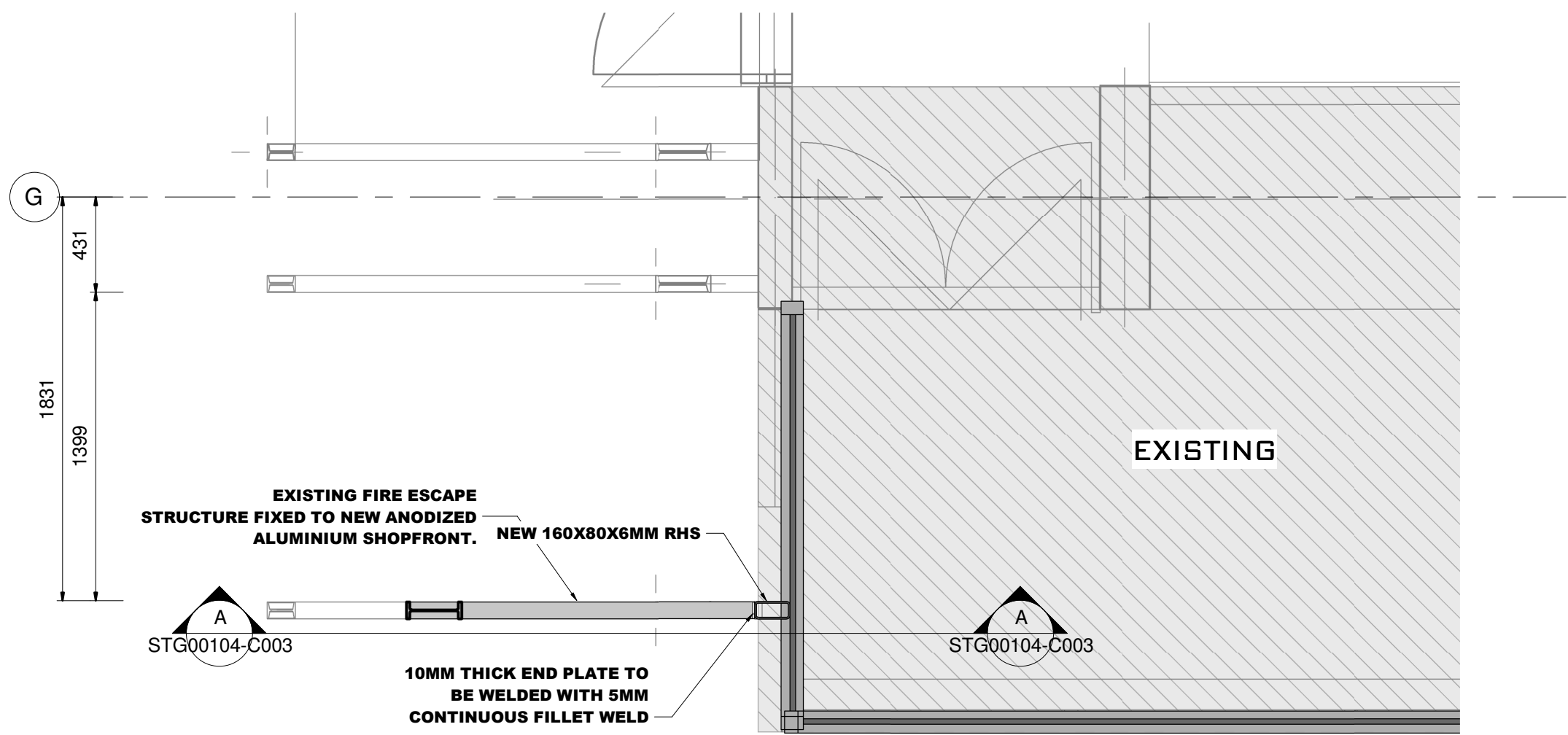
PROJECT DESCRIPTION

PROPOSED NEW ADDITIONS

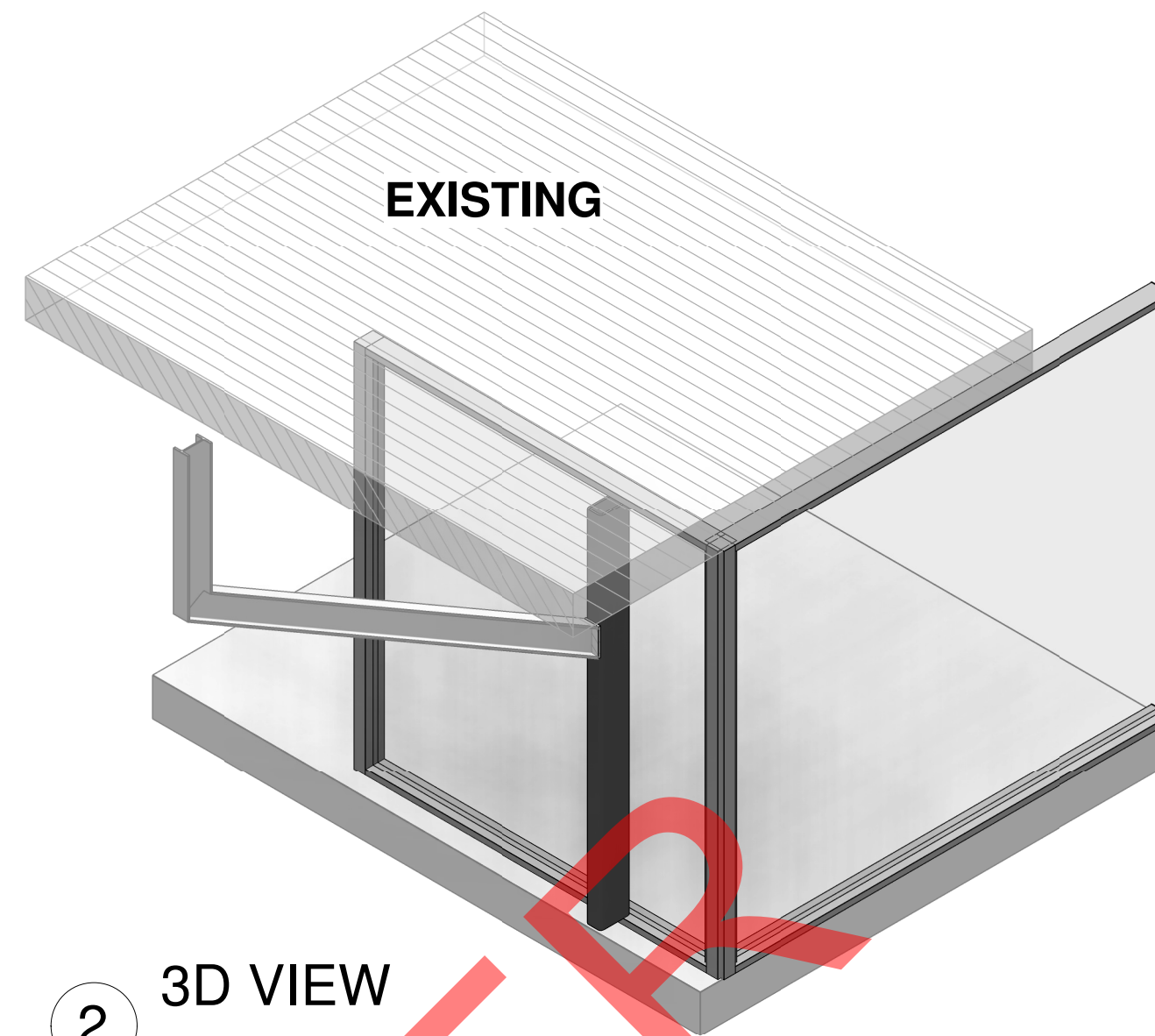
DRAWING TITLE

NEW DUCT FRAME & PANELS ISSUED FOR TENDER

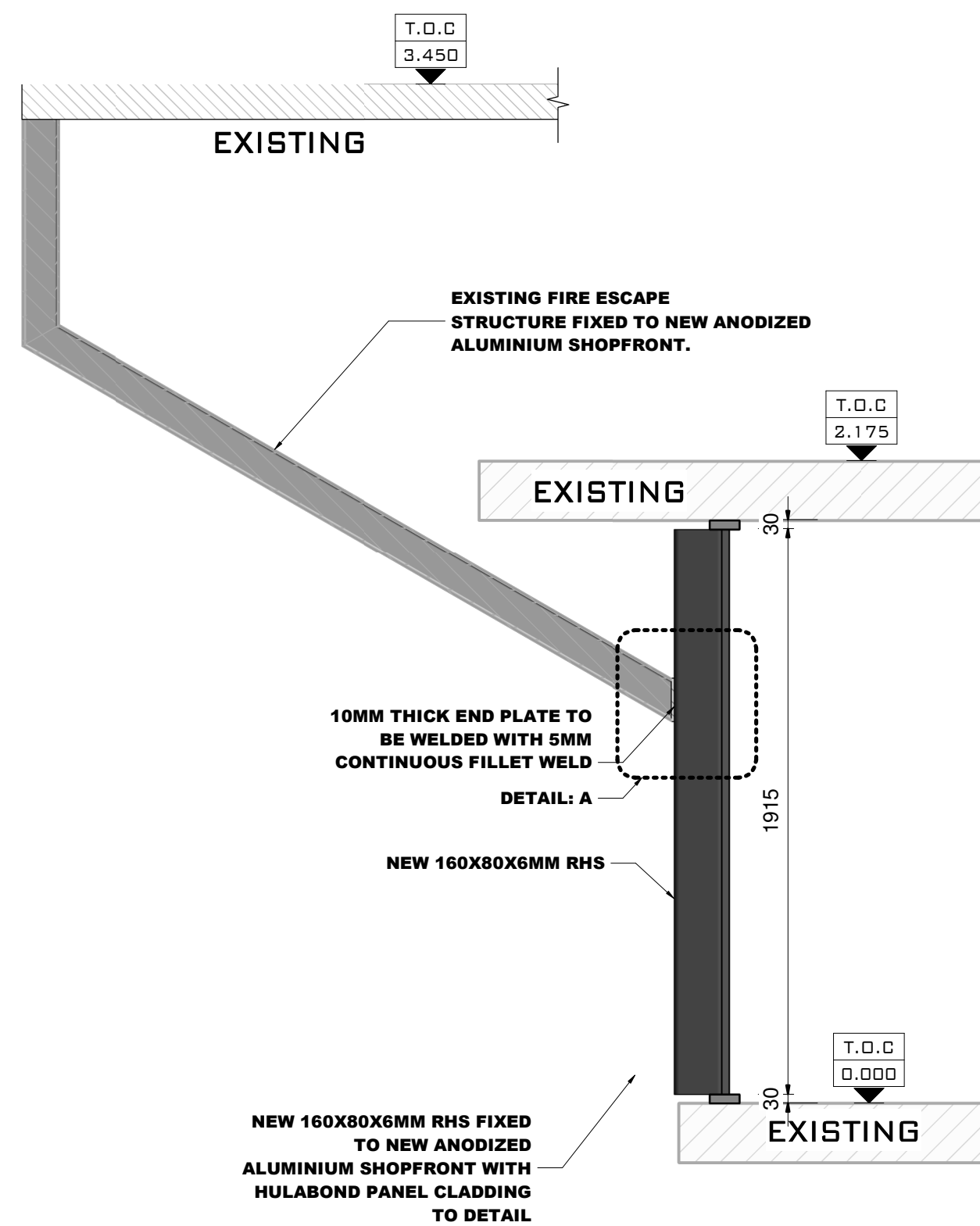
DATE	2022/09/23	DRAWN BY	L.T
CHECKED BY	W.R	DESIGNED BY	W.R
DRAWING SIZE	A0	SCALE	As indicated
DRAWING NUMBER	STG00104-C002	REV	A



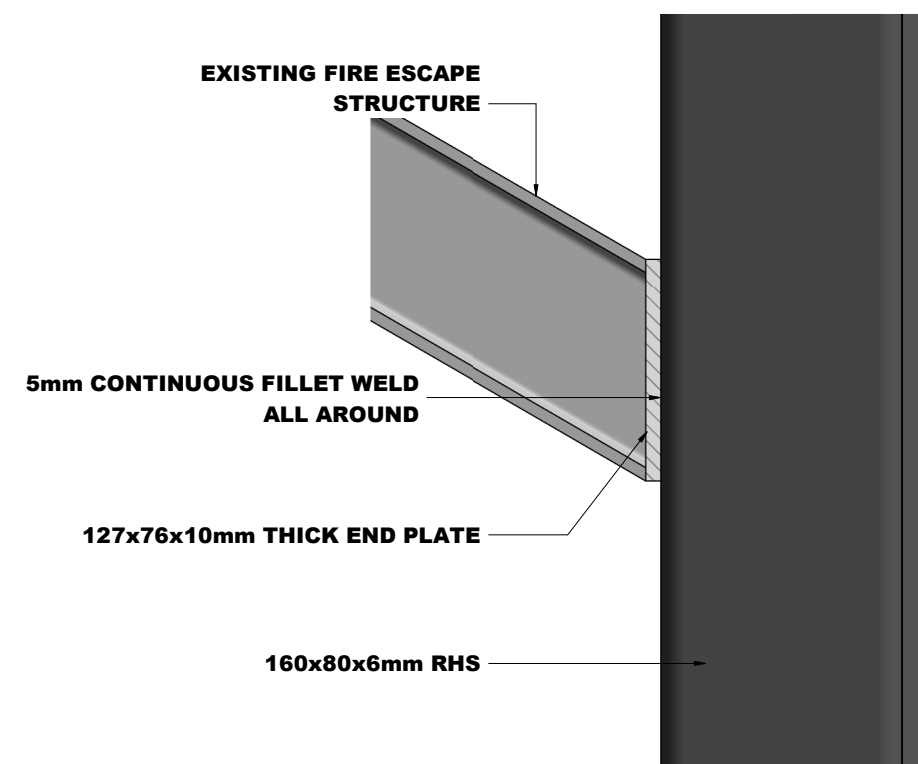
1 PLAN LAYOUT : NEW COLUMN CONNECTION
1 : 25



2 3D VIEW



A SECTION
1 : 20



3 DETAIL: A
1 : 5

NOTE GENERAL

- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL ARCHITECT'S, ENGINEERS AND SPECIALIST'S DRAWINGS WITH THE RELEVANT SPECIFICATIONS.
- DESIGN MATERIALS USED AND METHOD OF CONSTRUCTION TO BE IN ACCORDANCE WITH: SANS 0100, 0137, 0160 - 0164 AS APPLICABLE.
- THIS DRAWING NOT TO BE SCALED.
- ALL EXPOSED CORNERS TO BE CHAMFERED 25mm x 25mm.
- ALL LEVELS AND DIMENSIONS MUST BE CHECKED ON SITE BEFORE CONSTRUCTION COMMENSES. ANY DISCREPANCIES MUST BE REPORTED TO THE SITE ENGINEER.
- REINFORCED CONCRETE
- THE APPLICABLE STANDARD SPECIFICATION IS SANS 1200 G - 1982 WHICH SHOULD BE READ IN CONJUNCTION WITH THE VARIATIONS AND ADDITIONS CONTAINED IN THE PROJECT SPECIFICATION FOR CONCRETE (STRUCTURAL).
- CONCRETE COVER TO REINFORCEMENT AND CONCRETE STRENGTH TO BE AS INDICATED BELOW. COVER IS GIVEN TO THE NEAREST FACE. MINIMUM BAR COVER TO BE MAXIMUM OF BAR DIAMETER AND AS SHOWN BELOW. SPECIFIED COVER TO BE MAINTAINED USING CEMENT MORTAR COVER BLOCKS OR APPROVED PLASTIC SPACERS

- ALL AGGREGATE TO BE 19mm UNLESS OTHERWISE SPECIFIED.
- CONCRETE DESIGN MIXES TO BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
- CUBE TESTS TO BE CARRIED OUT ON SITE AND LOGGED WITH POSITION AND DATE. CUBES TO BE TAKEN FOR EACH TYPE OF ELEMENT, AT LEAST ONE SET DAILY AND AT LEAST ONE SET EVERY 50m³.
- REINFORCEMENT TO BE IN ACCORDANCE WITH SANS 920 AND SHALL BE BENT IN ACCORDANCE WITH SANS 82.
- ALL CAST IN ITEMS SHALL BE FREE OF OIL, GREASE, DIRT OR ANY OTHER MATERIAL WHICH MAY IMPAIR THE BOND WITH THE CONCRETE. CONTRACTOR TO REFER TO ARCHITECT/SPECIALIST DRAWINGS FOR DETAILS/POSITIONS OF OPENINGS, SLEEVES, CONDUITING, ETC. FOR STORMWATER, SEWERAGE AND OTHER SERVICES.
- FOUNDATIONS HAVE BEEN DESIGNED FOR AN ALLOWABLE GROUND BEARING CAPACITY OF kPa. 150
- ALL FOUNDATION EXCAVATIONS TO BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO CONCRETING.
- REMOVAL OF FORMWORK TO BE IN ACCORDANCE WITH THE PROJECT SPECIFICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR BACK-PROPPING ON MULTI-STOREY SLAB CONSTRUCTION

APPROVED
NAME _____ SIGNATURE _____
PR. NO. _____ DATE _____

ELEMENTS HAVE BEEN DESIGNED FOR THE FOLLOWING
NOMINAL LOAD:

	kN/m ²
	kN/m ²
	kN/m ²

DATUM =

Project Status

REVISIONS

REV	DATE	DESCRIPTION	BY
A	2022/09/23	ISSUED FOR TENDER	

CLIENT

SANBI BOTANICAL GARDEN

CONSULTANT



info@adqengineering.co.za
Tel: 012 030 0355
www.adqengineering.co.za

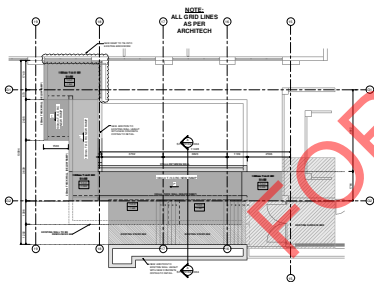
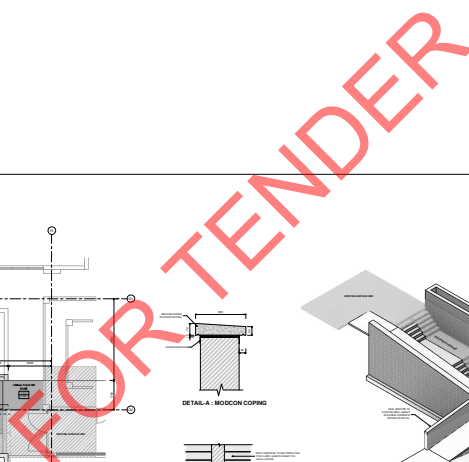
PROJECT DESCRIPTION

PROPOSED NEW ADDITION

DRAWING TITLE

NEW COLUMN CONNECTION
ISSUED FOR TENDER

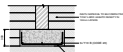
DATE 2022/09/23	DRAWN BY L.T
CHECKED BY W.R	DESIGNED BY W.R
DRAWING SIZE A1	SCALE As indicated
DRAWING NUMBER STG00104-C003	REV A



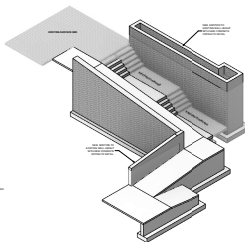
① PLAN LAYOUT : NEW RAMP & STAIRCASE
1 : 50



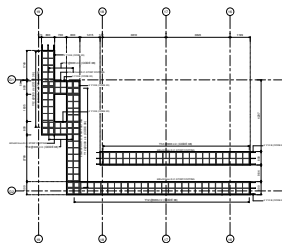
DETAIL-A : MODCON COPING



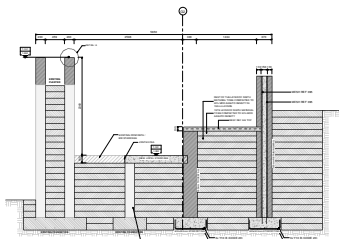
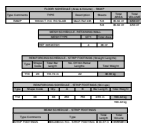
800x300mm STRIPFOOTING FOUNDATION



③ 3D VIEW

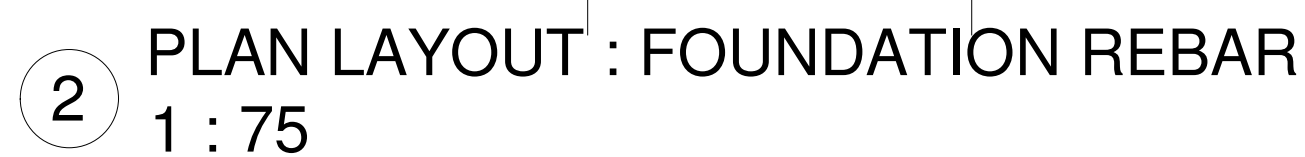


② PLAN LAYOUT : FOUNDATION REBAR
1 : 50



④ SECTION A-A
1:20

[illegible]



BEAM SCHEDULE - STRIP FOOTINGS			
Type	Comments	Type	Total Length Total Volume
STRIP FOOTINGS	800x300mm R.C. STRIP FOOTING	19.67 m	4.72 m³
		19.67 m	4.72 m³



NOTE GENERAL

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2. DESIGN MATERIALS USED AND METHOD OF CONSTRUCTION TO BE IN ACCORDANCE WITH: SANS 0100, 0137, 0160 - 0164 AS APPLICABLE.
3. THIS DRAWING NOT TO BE SCALED.
4. ALL EXPOSED CORNERS TO BE CHAMFERED 25mm x 25mm.
5. ALL LEVELS AND DIMENSIONS MUST BE CHECKED ON SITE BEFORE CONSTRUCTION COMMENCES. ANY DISCREPANCIES MUST BE REPORTED TO THE SITE ENGINEER.
- REINFORCED CONCRETE**
1. THE APPLICABLE STANDARD SPECIFICATION IS SANS 1200 G - 1982 WHICH SHOULD BE READ IN CONJUNCTION WITH THE VARIATIONS AND ADDITIONAL CONDITIONS CONCERNING SPECIFICATIONS OF CONCRETE AND REINFORCEMENT.
2. CONCRETE COVER TO REINFORCEMENT AND CONCRETE STRENGTH TO BE AS INDICATED BELOW. COVER IS GIVEN TO THE NEAREST FACE.
3. MINIMUM BAR COVER TO BE MAXIMUM OF BAR DIAMETER AND AS SHOWN BELOW. SPECIFIED COVER TO BE MAINTAINED USING CEMENT MORTAR COVER BLOCKS OR APPROVED PLASTIC SPACERS.

3. ALL AGGREGATE TO BE 19mm UNLESS OTHERWISE SPECIFIED.
4. CONCRETE DESIGN MIXES TO BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
5. CUBE TESTS TO BE CARRIED OUT ON SITE AND LOGGED WITH POSITION AND DATE. CUBES TO BE TAKEN FOR EACH TYPE OF ELEMENT, AT LEAST ONE SET DAILY AND AT LEAST ONE SET EVERY 50mm³.
6. REINFORCEMENT TO BE IN ACCORDANCE WITH SANS 920 AND SHALL BE BENT IN ACCORDANCE WITH SANS 82
7. CAST IN ITS STATE OF OR GREASE, DIRT OR ANY OTHER MATERIAL WHICH MAY IMPAIR THE BOND WITH THE CONCRETE.
8. CONTRACTOR TO REFER TO ARCHITECT/SPECIALIST DRAWINGS FOR DETAILS/POSITIONS OF OPENINGS, SLEEVES, CONDUITING, ETC. FOR STORMWATER, SEWERAGE AND OTHER SERVICES.
9. FOUNDATIONS HAVE BEEN DESIGNED FOR AN ALLOWABLE GROUND BEARING CAPACITY OF KPa. 150
10. ALL FOUNDATION CONSTRUCTION TO BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO CONCRETING.
11. REMOVAL OF FORMWORK TO BE IN ACCORDANCE WITH THE PROJECT SPECIFICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR BACK-PROPPING ON MULTI-STOREY SLAB CONSTRUCTION

DATUM =

Project Status

REVISIONS

[illegible]

CLIENT

Sanbi Botanical Garden

CONSULTANT



info@adqengineering.co.za
Tel: 012 030 0355

www.adgenengineering.co.za

PROJECT DESCRIPTION

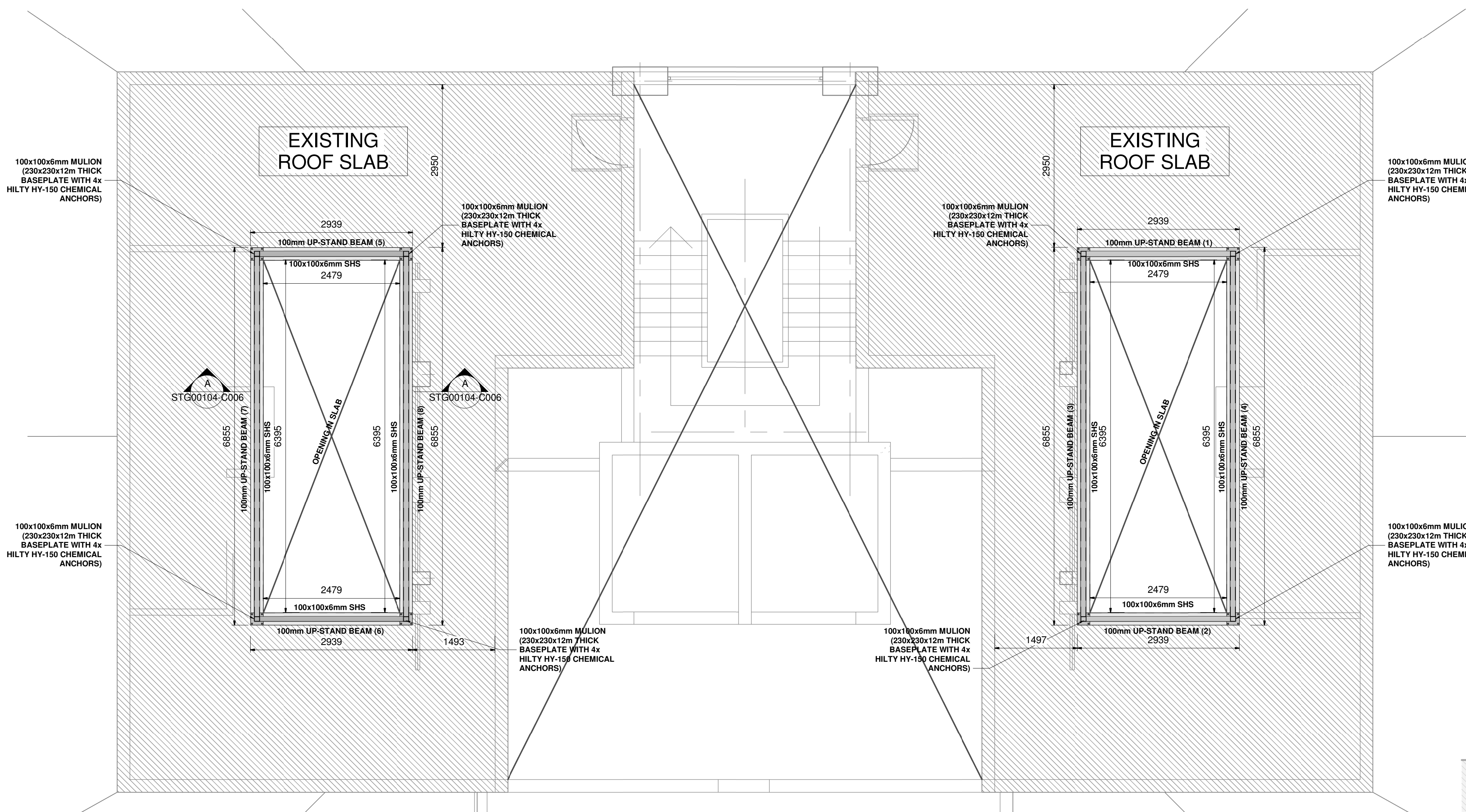
PROPOSED NEW ADDITION

DRAWING TITLE

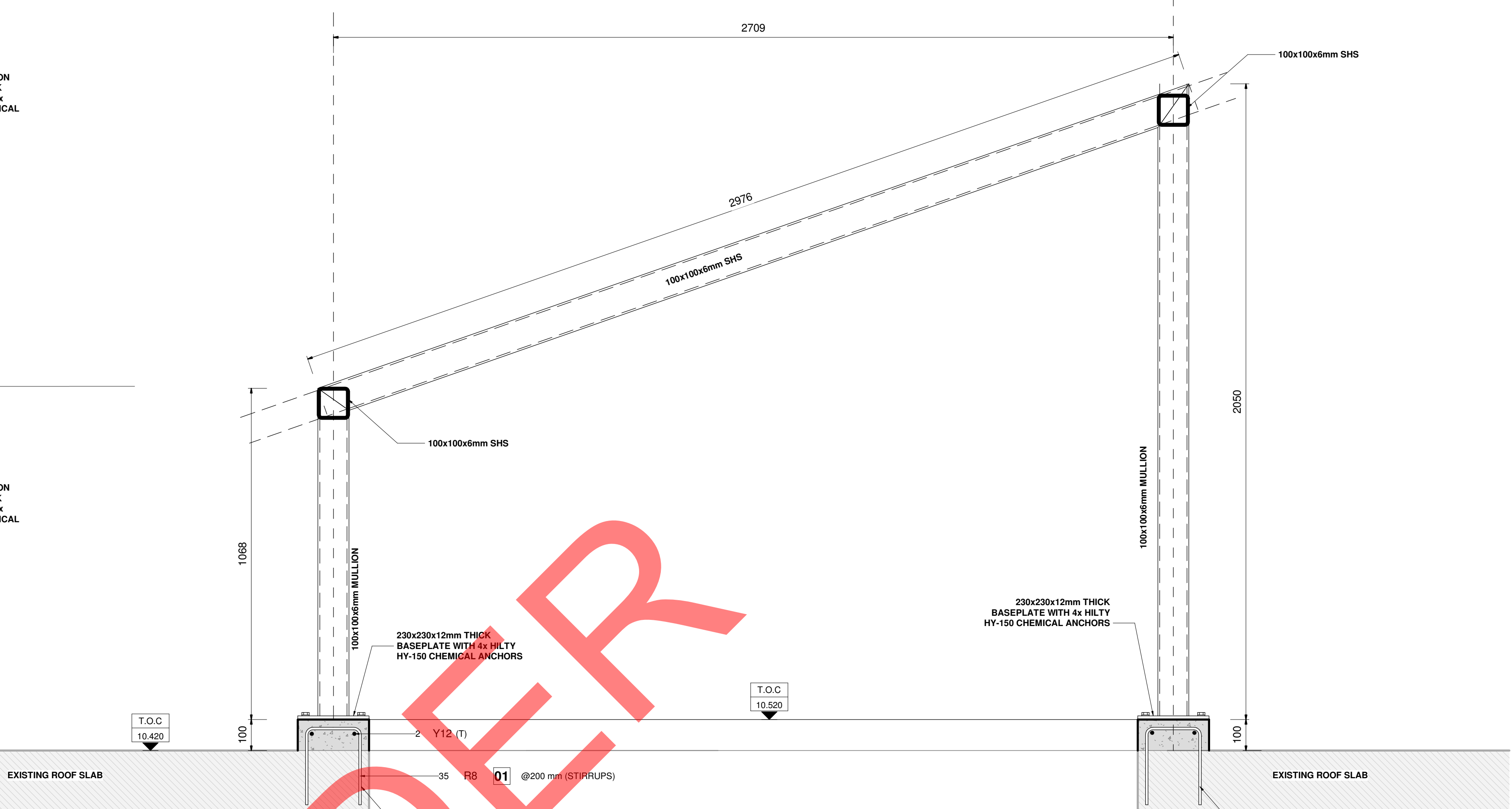
NEW RETAINING WALL ISSUED FOR TENDER

DRAWING SIZE	SCALE
A1	As indicated

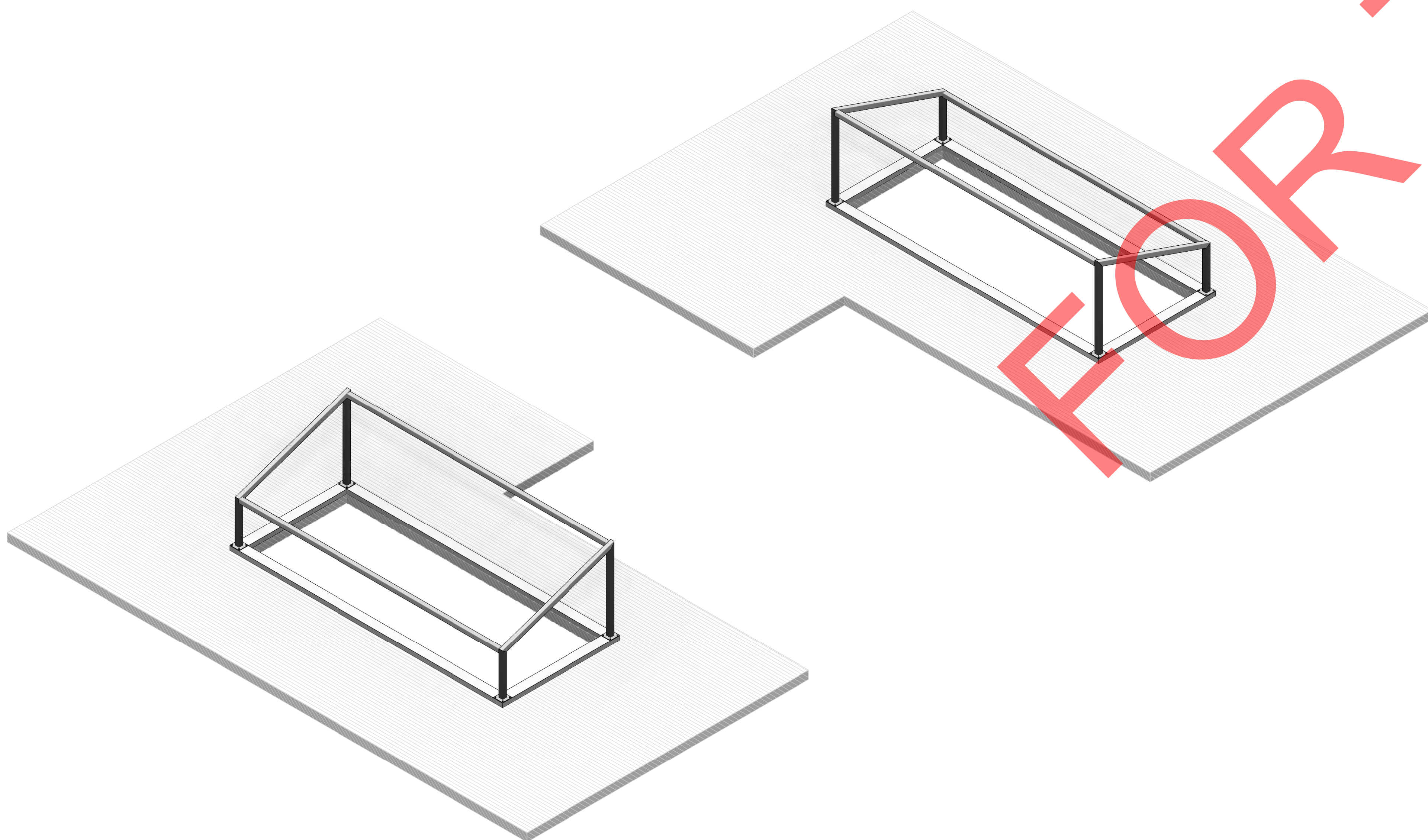
DRAWING NUMBER	REV
STG00104-C005	A



1 PLAN LAYOUT : NEW RING BEAMS & STEEL STRUCTURE
1 : 50



A SECTION
1 : 10



2 3D VIEW

STEEL COLUMN SCHEDULE					
Mark	Type	Qty.	Total Length	Column/Beam Weight per Meter	Total Weight
	100x100x6 SHS	4	4.22 m	17.90 kg/m	75.61 kg
	100x100x6 SHS	4	8.15 m	17.90 kg/m	145.92 kg
		8	12.38 m		221.53 kg

BEAM SCHEDULE - STEEL BEAMS				
Type	Total Length	NO.OFF	Weight per Meter	Total Weight
100x100x6 SHS	36.46 m	8	17.90 kg/m	652.80 kg
	36.46 m			652.80 kg

APPROVED
NAME _____ SIGNATURE _____
PR. NO. _____ DATE _____

NOTE GENERAL

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- REINFORCED CONCRETE**
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- | ELEMENT | CONCRETE STRENGTH AT 28 DAYS (MPa) | COVER mm |
|-------------|------------------------------------|----------|
| FOUNDATIONS | 25 | 40 |
| COLUMNS | 30 | 30 |
| BEAMS | 25 | 25 |
| SLABS | 25 | 25 |
| WALLS | 30 | 30 |
- ALL AGGREGATE TO BE 19mm UNLESS OTHERWISE SPECIFIED.
 - CONCRETE DESIGN MIXES TO BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
 - CUBE TESTS TO BE CARRIED OUT ON SITE AND LOGGED WITH POSITION AND DATE. CUBES TO BE TAKEN FOR EACH TYPE OF ELEMENT, AT LEAST ONE SET DAILY AND AT LEAST ONE SET EVERY 50m³.
 - REINFORCEMENT TO BE IN ACCORDANCE WITH SANS 920 AND SHALL BE BENT IN ACCORDANCE WITH SANS 92.
 - ALL CAST IN ITEMS SHALL BE FREE OF OIL, GREASE, DIRT OR ANY OTHER MATERIAL WHICH MAY IMPAIR THE BOND WITH THE CONCRETE. CONTRACTOR TO REFER TO ARCHITECT/SPECIALIST DRAWINGS FOR DETAILED SPECIFICATIONS OF OPENINGS, SLEEVES, CONDUITING, ETC. FOR STORMWATER, SEWERAGE AND OTHER SERVICES.
 - FOUNDATIONS HAVE BEEN DESIGNED FOR AN ALLOWABLE GROUND BEARING CAPACITY OF 450 kPa.
 - ALL FOUNDATION EXCAVATIONS TO BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO CONCRETING.
 - REMOVAL OF FORMWORK TO BE IN ACCORDANCE WITH THE PROJECT SPECIFICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR BACK-PROPPING ON MULTI-STORY SLAB CONSTRUCTION.

ELEMENTS HAVE BEEN DESIGNED FOR THE FOLLOWING NOMINAL LOAD:	
	kN/m ²
	kN/m ²
	kN/m ²

DATUM =

Project Status			
REVISIONS			
REV	DATE	DESCRIPTION	BY
A	2022/09/21	ISSUED FOR TENDER	W.R

CLIENT

SANBI BOTANICAL GARDEN

CONSULTANT

ADQ
AFRICAN DYNAMIC QUALITY
ENGINEERING PROJECTS

info@adqengineering.co.za
Tel: 012 030 0355

www.adqengineering.co.za

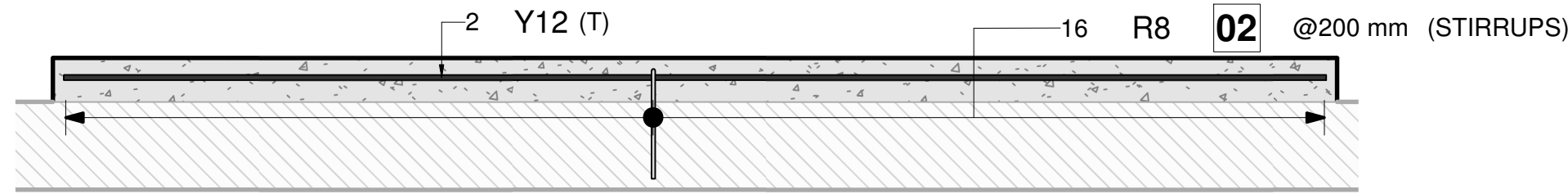
PROJECT DESCRIPTION

PROPOSED NEW ADDITIONS

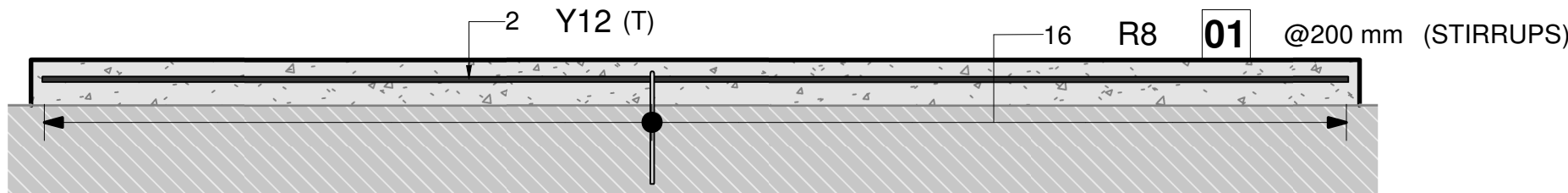
DRAWING TITLE

NEW SKYLIGHTS ISSUED FOR TENDER

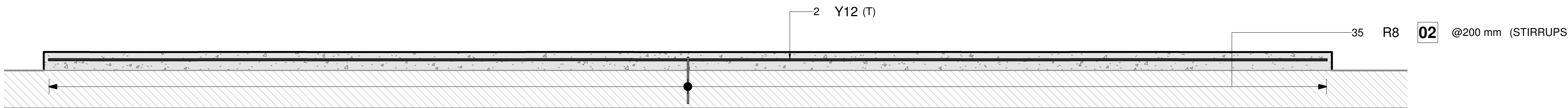
DATE	2022/09/21	DRAWN BY	L.T
CHECKED BY	W.R	DESIGNED BY	W.R
DRAWING SIZE	A0	SCALE	As indicated
DRAWING NUMBER	STG00104-C006	REV	A



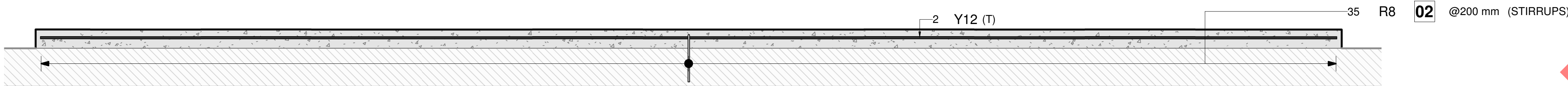
1 100mm UP-STAND BEAM (1)
1 : 20



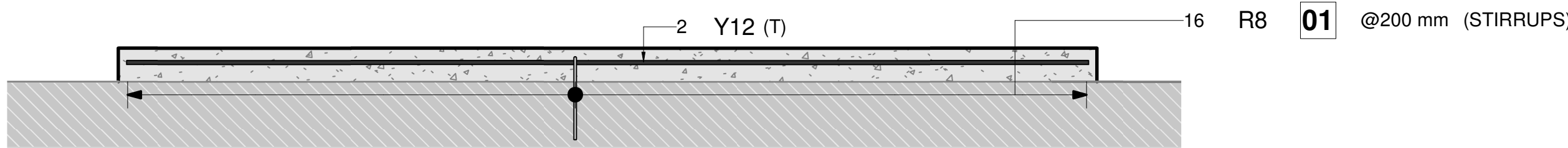
2 100mm UP-STAND BEAM (2)
1 : 20



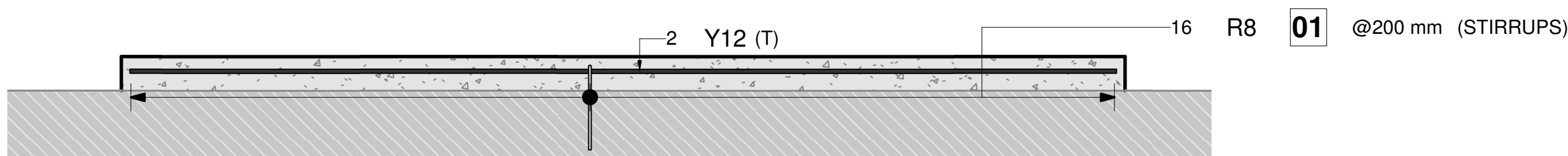
3 100mm UP-STAND BEAM (3)
1 : 20



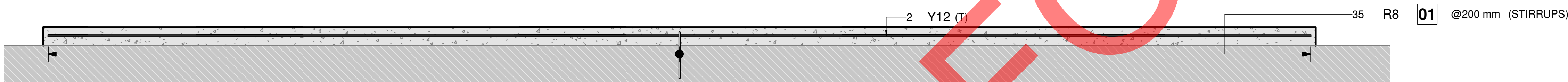
4 100mm UP-STAND BEAM (4)
1 : 20



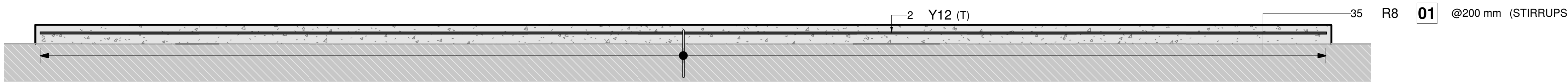
5 100mm UP-STAND BEAM (5)
1 : 20



6 100mm UP-STAND BEAM (6)
1 : 20



7 100mm UP-STAND BEAM (7)
1 : 20



8 100mm UP-STAND BEAM (8)
1 : 20

BEAM SCHEDULE - ROOF			
Type	Total Length	Total Volume	
230x100mm UP-STAND BEAM	36.87 m	0.86 m³	
	36.87 m	0.86 m³	

REINFORCING SCHEDULE - ROOF UP-STAND BEAMS										
Rebar No.	Qty.	Type	Shap e Code	Bar Length	A	B	C	D	E	Total Weight
(RF) BEAM (1)										
01	2	Y12	20	2900 mm	2900 mm	0 mm	0 mm	0 mm	0 mm	5.15 kg
02	16	R8	38	650 mm	250 mm	175 mm	250 mm	0 mm	0 mm	4.11 kg
(RF) BEAM (2)										
01	16	R8	38	650 mm	250 mm	175 mm	250 mm	0 mm	0 mm	4.11 kg
02	2	Y12	20	2900 mm	2900 mm	0 mm	0 mm	0 mm	0 mm	5.15 kg
(RF) BEAM (3)										
01	2	Y12	20	6800 mm	6800 mm	0 mm	0 mm	0 mm	0 mm	12.08 kg
02	35	R8	38	650 mm	250 mm	175 mm	250 mm	0 mm	0 mm	8.99 kg
(RF) BEAM (4)										
01	2	Y12	20	6800 mm	6800 mm	0 mm	0 mm	0 mm	0 mm	12.08 kg
02	35	R8	38	650 mm	250 mm	175 mm	250 mm	0 mm	0 mm	8.99 kg
(RF) BEAM (5)										
01	16	R8	38	650 mm	250 mm	175 mm	250 mm	0 mm	0 mm	4.11 kg
02	2	Y12	20	2900 mm	2900 mm	0 mm	0 mm	0 mm	0 mm	5.15 kg
(RF) BEAM (6)										
01	16	R8	38	650 mm	250 mm	175 mm	250 mm	0 mm	0 mm	4.11 kg
02	2	Y12	20	2900 mm	2900 mm	0 mm	0 mm	0 mm	0 mm	5.15 kg
(RF) BEAM (7)										
01	35	R8	38	650 mm	250 mm	175 mm	250 mm	0 mm	0 mm	8.99 kg
02	2	Y12	20	6800 mm	6800 mm	0 mm	0 mm	0 mm	0 mm	12.08 kg
(RF) BEAM (8)										
01	35	R8	38	650 mm	250 mm	175 mm	250 mm	0 mm	0 mm	8.99 kg
02	2	Y12	20	6800 mm	6800 mm	0 mm	0 mm	0 mm	0 mm	12.08 kg
220										121.29 kg

ELEMENT	CONCRETE STRENGTH AT 28 DAYS (MPa)	COVER mm
FOUNDATIONS	25	40
COLUMNS	30	30
BEAMS	25	25
SLABS	25	25
WALLS	30	30

NOTE GENERAL

- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL ARCHITECT'S, ENGINEERS AND SPECIALIST'S DRAWINGS WITH THE RELEVANT SPECIFICATIONS.
- DESIGN MATERIALS USED AND METHOD OF CONSTRUCTION TO BE IN ACCORDANCE WITH: SANS 0100, 0137, 0160 - 0164 AS APPLICABLE.
- THIS DRAWING NOT TO BE SCALED.
- ALL EXPOSED CORNERS TO BE CHAMFERED 25mm x 25mm.
- ALL LEVELS AND DIMENSIONS MUST BE CHECKED ON SITE BEFORE CONSTRUCTION COMMENSES. ANY DISCREPANCIES MUST BE REPORTED TO THE SITE ENGINEER.
- REINFORCED CONCRETE
 - THE APPLICABLE STANDARD SPECIFICATION IS SANS 1200 G - 1982 WHICH SHOULD BE READ IN CONJUNCTION WITH THE VARIATIONS AND ADDITIONS CONTAINED IN THE PROJECT SPECIFICATION FOR CONCRETE (STRUCTURAL).
 - CONCRETE COVER TO REINFORCEMENT AND CONCRETE STRENGTH TO BE AS INDICATED BELOW. COVER IS GIVEN TO THE NEAREST FACE. MINIMUM BAR COVER TO BE MAXIMUM OF BAR DIAMETER AND AS SHOWN BELOW. SPECIFIED COVER TO BE MAINTAINED USING CEMENT MORTAR COVER BLOCKS OR APPROVED PLASTIC SPACERS

- ALL AGGREGATE TO BE 19mm UNLESS OTHERWISE SPECIFIED.
- CONCRETE DESIGN MIXES TO BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
- CUBE TESTS TO BE CARRIED OUT ON SITE AND LOGGED WITH POSITION AND DATE. CUBES TO BE TAKEN FOR EACH TYPE OF ELEMENT, AT LEAST ONE SET DAILY AND AT LEAST ONE SET EVERY 50m³.
- REINFORCEMENT TO BE IN ACCORDANCE WITH SANS 920 AND SHALL BE BENT IN ACCORDANCE WITH SANS 82.
- ALL CAST IN ITEMS SHALL BE FREE OF OIL, GREASE, DIRT OR ANY OTHER MATERIAL WHICH MAY IMPAIR THE BOND WITH THE CONCRETE. CONTRACTOR TO REFER TO ARCHITECT/SPECIALIST DRAWINGS FOR DETAILS/POSITIONS OF OPENINGS, SLEEVES, CONDUITING, ETC. FOR STORMWATER, SEWERAGE AND OTHER SERVICES.
- FOUNDATIONS HAVE BEEN DESIGNED FOR AN ALLOWABLE GROUND BEARING CAPACITY OF kPa. 150
- ALL FOUNDATION EXCAVATIONS TO BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO CONCRETING.
- REMOVAL OF FORMWORK TO BE IN ACCORDANCE WITH THE PROJECT SPECIFICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR BACK-PROPPING ON MULTI-STOREY SLAB CONSTRUCTION

APPROVED
NAME _____ SIGNATURE _____
PR. NO _____ DATE _____

ELEMENTS HAVE BEEN DESIGNED FOR THE FOLLOWING NOMINAL LOAD:

	kN/m²
	kN/m²
	kN/m²

DATUM =

Project Status

REVISIONS

REV	DATE	DESCRIPTION	BY
A	2022/09/21	ISSUED FOR TENDER	W.R

CLIENT

SANBI BOTANICAL GARDEN

CONSULTANT



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PROJECT DESCRIPTION

PROPOSED NEW ADDITIONS

DRAWING TITLE

SKYLIGHT RC BEAMS
REINFORCEMENT DETAILS ISSUED
FOR TENDER

DATE 2022/09/21	DRAWN BY L.T
CHECKED BY W.R	DESIGNED BY W.R
DRAWING SIZE A1	SCALE 1 : 20
DRAWING NUMBER STG00104-C007	REV A