

	
0	17

Release Number 7-112 Building-C SW 1-1-2 #12																						
Bar Area		On	Start	End	Time	X	Y	Z	V	T	V	T	V	T	V	T	V	T	V	T	V	T
1501		45	100	6000	1000		6000															
		4	200	9000	9000																	
		4	150	9000	7000																	
		2	150	7000	7000																	
		185	200	5000	5000																	
		15	200	5000	7000																	
		84	100	2900	2900																	
		12	100	4500	1000	17			600													
		12	100	4500	4200																	
		2	200	4500	3300				4200													
1505		2	200	6500	6500				6500													
		2	150	3500	3500																	
		17	100	3500	3500																	
		2	150	3500	3500																	
		12	150	3500	3500																	
		2	200	3500	3500																	
		2	200	3500	3500																	
		24	100	3500	3500																	
		2	150	6500	6500				6500													
		2	200	6500	6500																	
1504		1	150	2100	17		1090		130		1090											
		6	100	2100	17		1090		1090		130		1090									
		1	200	2400	17				1090	160												
		1005	6	100	1790	2			1100													
		1005	6	100	1500	17			1500													
		1005	12	200	1500	2			1100													
		1506	1	150	1380	2			260	1100												
		2003	9	200	1140	2			830													
		1507	1	150	880	2			260	620												
		2006	1	200	1830	17		830		1100												
1508		1	150	1720	17		620		1100													
		4	100	800	11		100		150		150											
		10	150	2900	2900																	
		2008	6	200	1840	17		830		830												
		1009	48	100	640	17		620		400												
		1509	8	150	1300	17				650												
		1510	8	150	1300	17				650												
		32	150	3600	3600																	
		6	100	1330	17				600													
		1010	6	100	1330	17				600												
2009		1	150	1330	17		600		130		600											
		1	200	1360	17		600		160		600											
		1512	2	150	960	2		260		700												
		2010	2	200	1010	2		310		700												
		12	100	4500	4500				4200													
		6	100	3300	19		100		350													
		2	200	7500	7500				7500													
		12	100	4800	4800				4800													
		6	150	3800	3800				3800													
		3	150	1530	17				700													
1008		18	100	1130	17		900		130		900											
		3	200	1960	17		900		160		900											
		2007	3	200	1960	17																



3, CONCRETE COVER:
VERTICALS

Bar Size	fe=25		fe=30		fe=35	
	L/S	L/d	L/S	L/d	L/S	L/d
10M	490	360	450	350	420	330
15M	740	570	670	520	620	480
20M	980	750	890	690	830	640
25M	1530	1170	1390	1070	1290	990
30M	1830	1410	1670	1290	1550	1190

0				
17				
2		Hook C optional		
11		Nodes A & C optional		
T9				

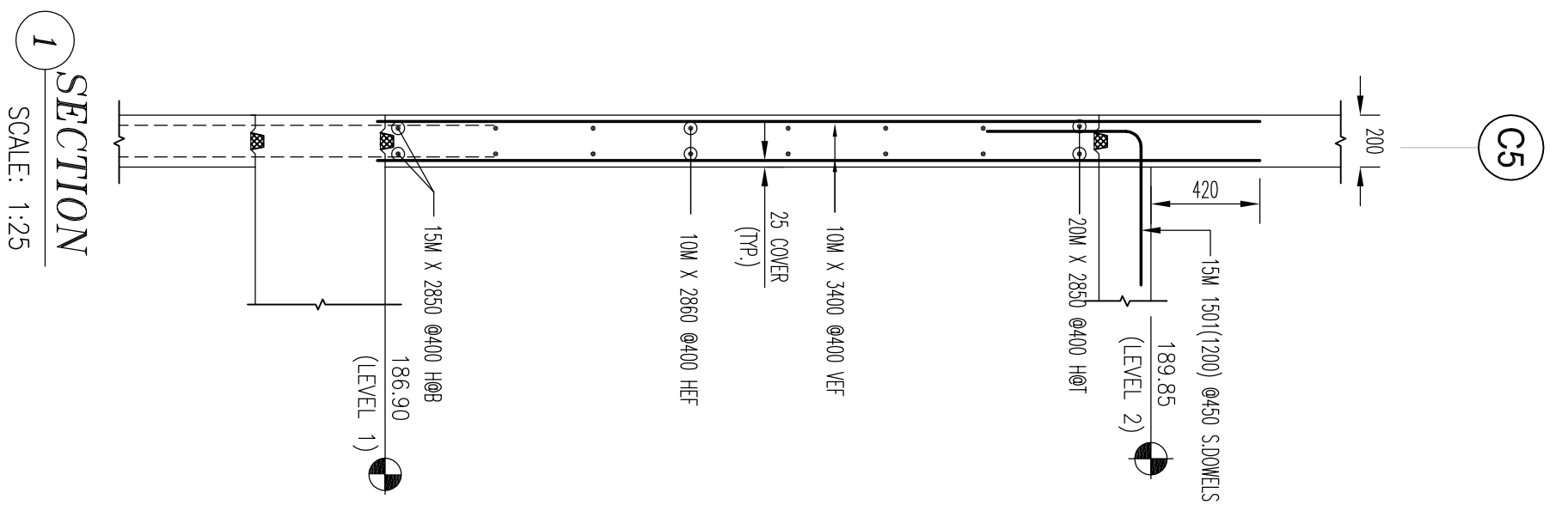
No comment	☒	See comment
Amend & Resubmit	☐	Rejected
	☐	See Remarks

Submission No. 19966
 Project No. MB
 By 10 Sep 2021
 Date

JABLONSKY, AST AND PARTNERS
 Consulting Engineers
 1234 Little Street Don Mills, Ont. M3C 2K5

STANDARD BARS LABEL COMBAT		*ELEVATION AND DIMENSIONS SHOWN ARE FOR CONSTRUCTION PURPOSES ONLY AND ARE NOT TO BE USED FOR VERIFICATION AND APPROVED AS IS UNLESS COMMENTED ON THE APPROVAL DRAWING	
L&SNO QUANTITY	B515M X .5600 DOWEL	L&SNO QUANTITY	B515M X .5600 DOWEL
STANDARD BARS LABEL COMBAT		STANDARD BARS LABEL COMBAT	
L&SNO QUANTITY	B515M X .5600 DOWEL	L&SNO QUANTITY	B515M X .5600 DOWEL
STANDARD BARS LABEL COMBAT		STANDARD BARS LABEL COMBAT	
L&SNO QUANTITY	B515M X .5600 DOWEL	L&SNO QUANTITY	B515M X .5600 DOWEL

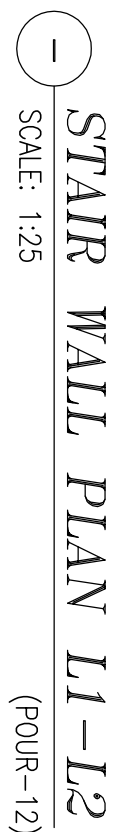
[illegible]



Sex	Age	Size	Weight	Type	A	B	C	D	E	F	G	H	I	J	K	L	M
	1501	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1502	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1503	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1504	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1505	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1506	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1507	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1508	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1509	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1510	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1511	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1512	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1513	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1514	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1515	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1516	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1517	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1518	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1519	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1520	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1521	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1522	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1523	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1524	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1525	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1526	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1527	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1528	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1529	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	1530	2150	3500	100	180	3500	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200

MANSTEEL	SEP 10 / 21	BY
REBAR	DATE	
REMARKS FOR APPROVAL ISSUE		

PROJECT FORESTSIDE TOWNHOUSES -BRAMPTON, ON	
PART OF STRUCTURE ELEVATOR SHEAR WALLS -L1-L2 P10	
CLIENTS: _____	
DESIGNED BY: JO	DATE LISTED: _____
DESIGNED BY: _____	DATE LISTED: _____
Project no. 2777	
SCALE: AS SHOWN	DRAWING No. _____
R7.13 	

[illegible]

NOTES

1. ALL STEEL TO BE GRADE 400W

2. STRENGTH OF CONCRETE
35MPa – INTERIOR COLUMNS & WALLS

4. COMPRESSION LAP SPICE

BAR SIZE	STANDARD LAP (mm)
10M	300
15M	440
20M	590
25M	730
30M	880
35M	1030

5. TENSION LAP SPICE (L.S.) & DEVELOPMENT LENGTH (Ld)

BAR SIZE	L.S. f _c =25	Ld f _c =30	L.S. f _c =35	Ld f _c =40
10M	490	380	450	320
15M	720	570	670	480
20M	960	750	890	640
25M	1330	1170	1390	990
30M	1830	1410	1670	1290
35M			1970	1550

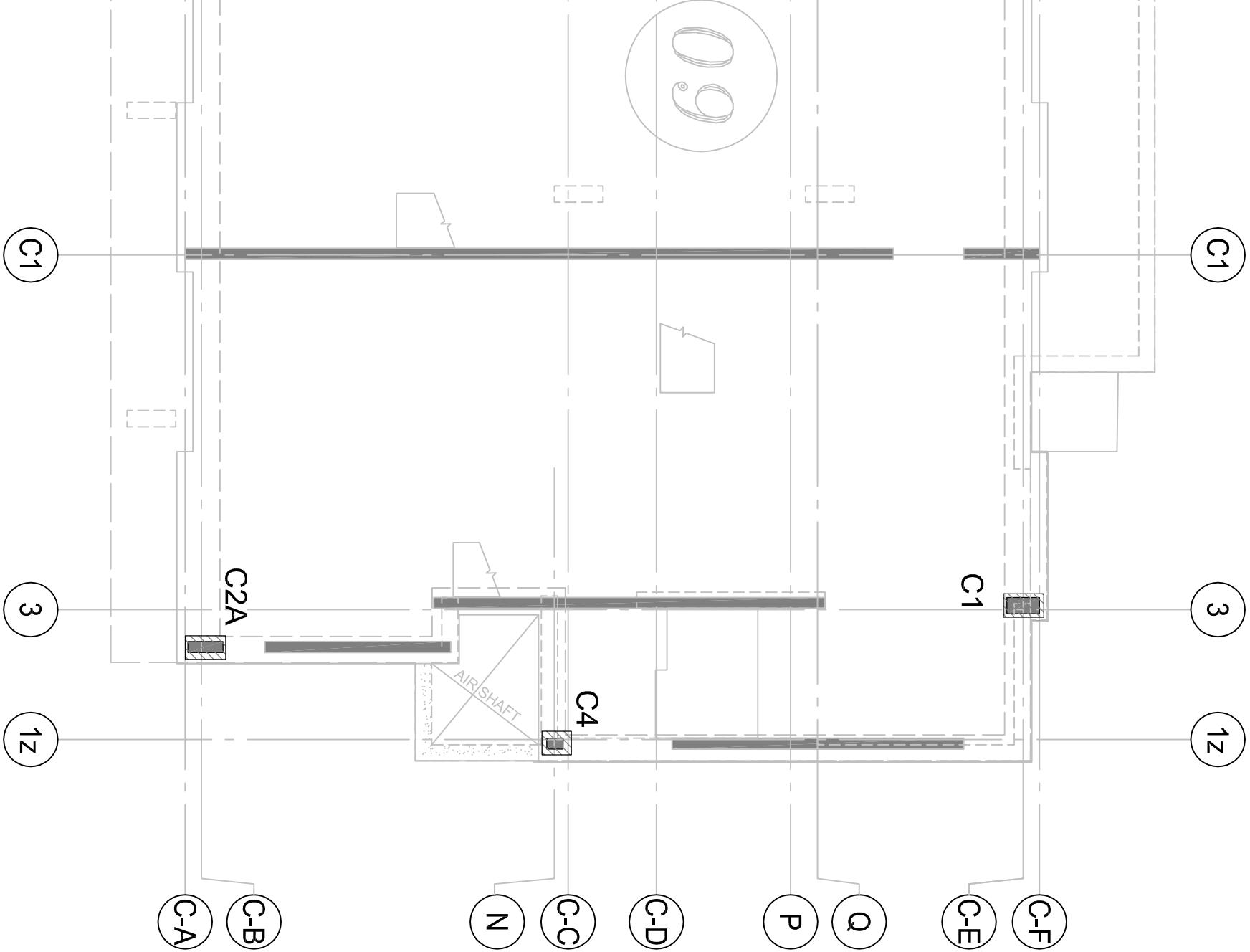
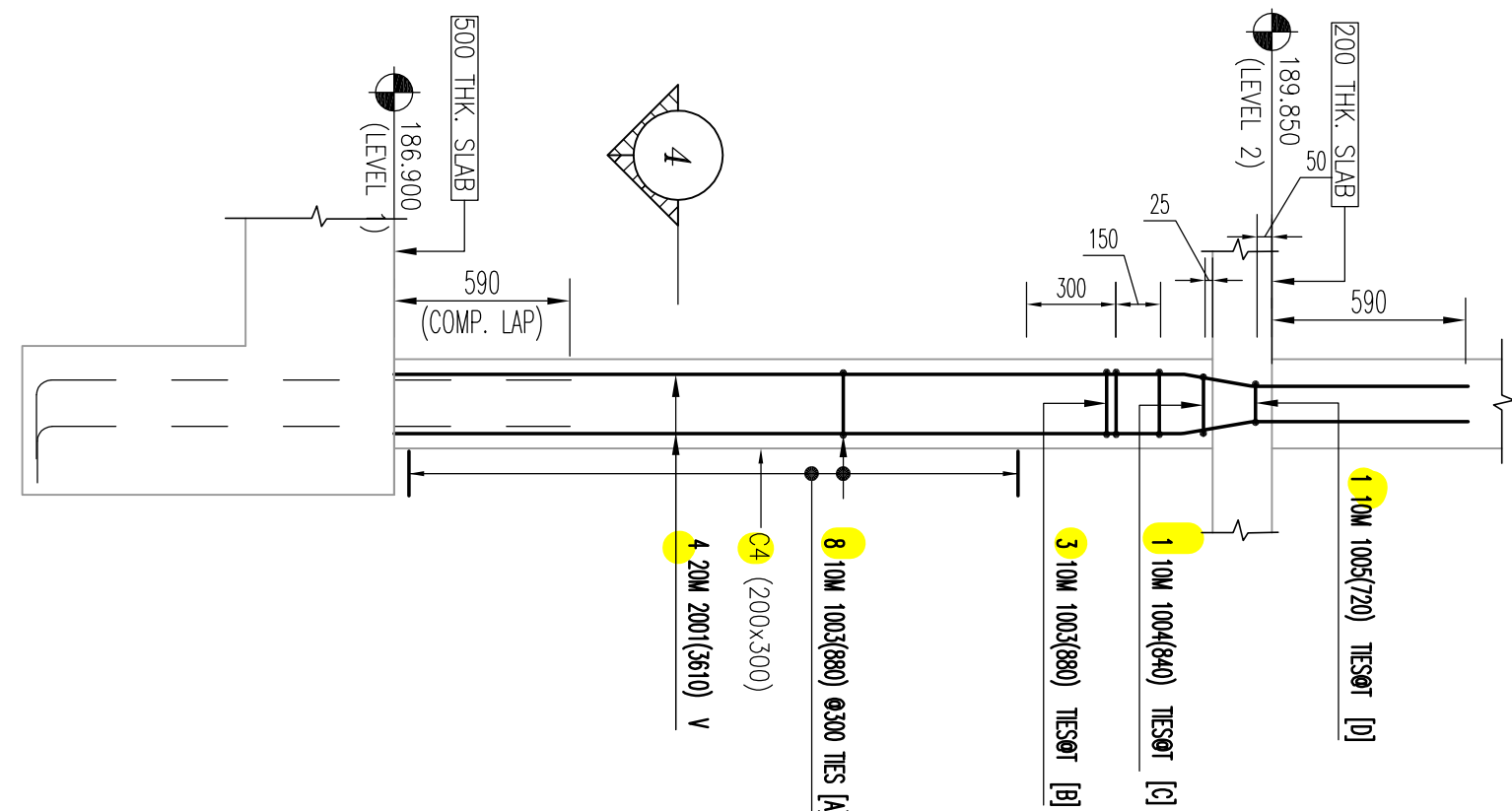
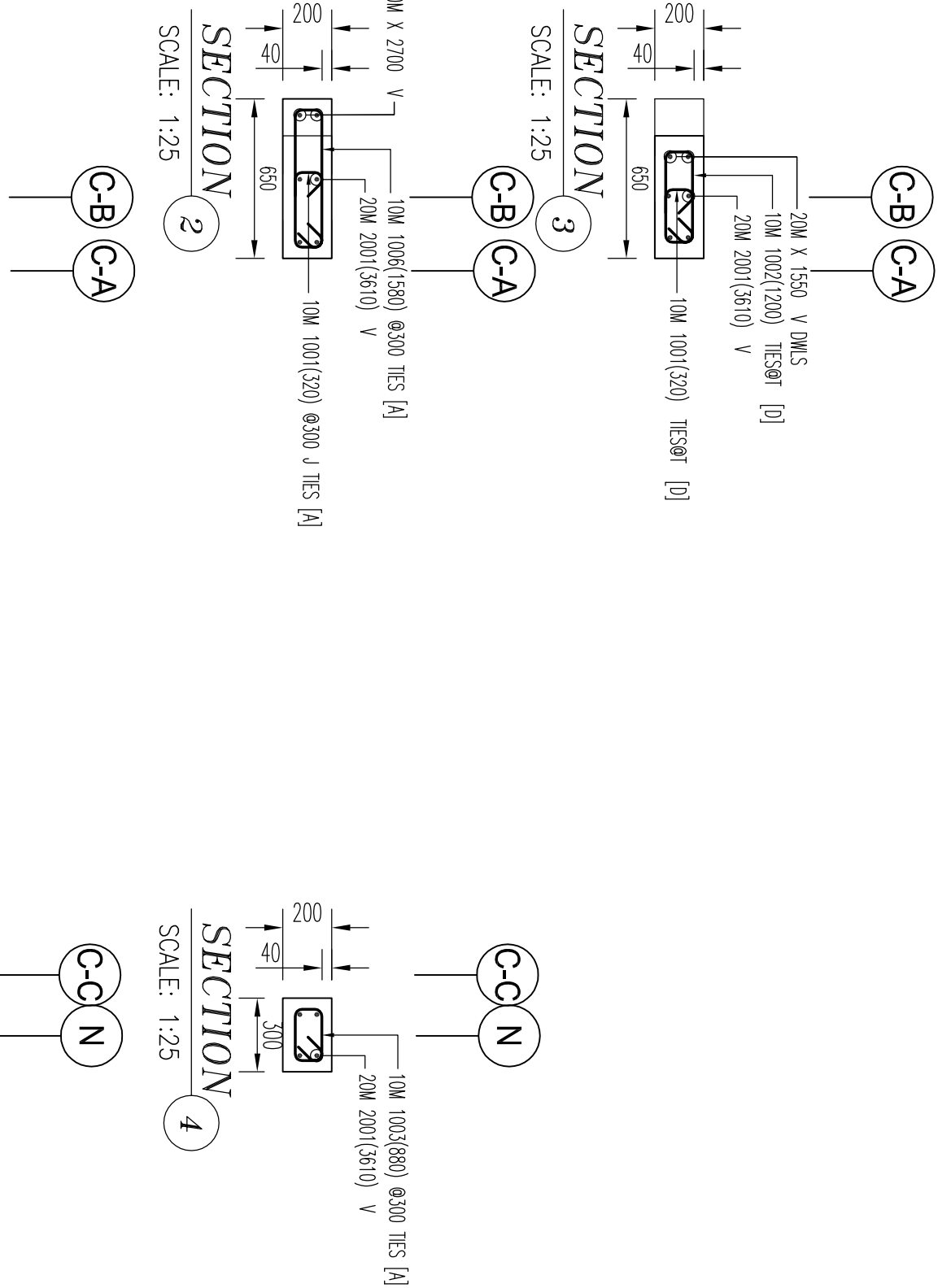
3. CONCRETE COVER:
-- 25mm

VERTICALS

0	Length	
17		
26	Stondee (isometric view)	

DRAWING REVIEW	
This review of this drawing does not in any way constitute a professional engineering review for its accuracy or for compliance with the contract documents.	
☒ No comment	☐ See comment
☐ Amend & Resubmit	☐ Rejected See Remarks
Submission No. <u>191066</u>	
Project No. <u>MB</u>	
By <u>10 Sep 2021</u>	
Date	
JABLONSKY, AST AND PARTNERS Consulting Engineers 1129 Leslie Street Don Mills, Ont. M3C 2K5	

[illegible][illegible]



TENSION LAP SPURCE (FOR WALL OR CAP & L _d IN CAP OR FLG.)	LENGTH (L _d)					
	f _c =25		f _c =30		f _c =35	
	BAR SIZE	L _d	BAR SIZE	L _d	BAR SIZE	L _d
10M	490	380	450	420	320	420
15M	740	570	670	520	620	480
20M	980	750	890	690	830	640
25M	1530	1170	1390	1070	1290	990
30M	1830	1410	1670	1290	1550	1190

	Σ	Π	Ψ	Χ	Γ	Δ	Ε	Ζ	Θ	Ι	Κ	Λ	Μ	Ν	Ξ	Ο	Ρ	Σ	Τ	Υ	Φ	Χ	Ψ	Ω	96 (Σ)
120	368	120	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
120	570	120	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
120	771	120	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
120	972	120	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
120	1173	120	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
120	1374	120	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
120	1575	120	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
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120	1977	120	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
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120	3384	120	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
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120	8007	120	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
120	8208	120	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
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120	9414	120	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
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120	10218	120	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
120	10419	120	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
120	10620	120	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
120	10821	120	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
120	11022	120	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
120	11223	120	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
120	11424	120	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
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120	11826	120	100	100	100	100	100	100																	

DRAWING REVIEW

This review of this drawing does not in any way relieve the drafter of the responsibility for its accuracy or for compliance with the contract documents.

☒	No comment	See comment
☐	Amend & Resubmit	Rejected See Remarks

Submission No. 19066

Project No. MB

Date 10 Sep 2021

JABLONSKY, AST AND PARTNERS

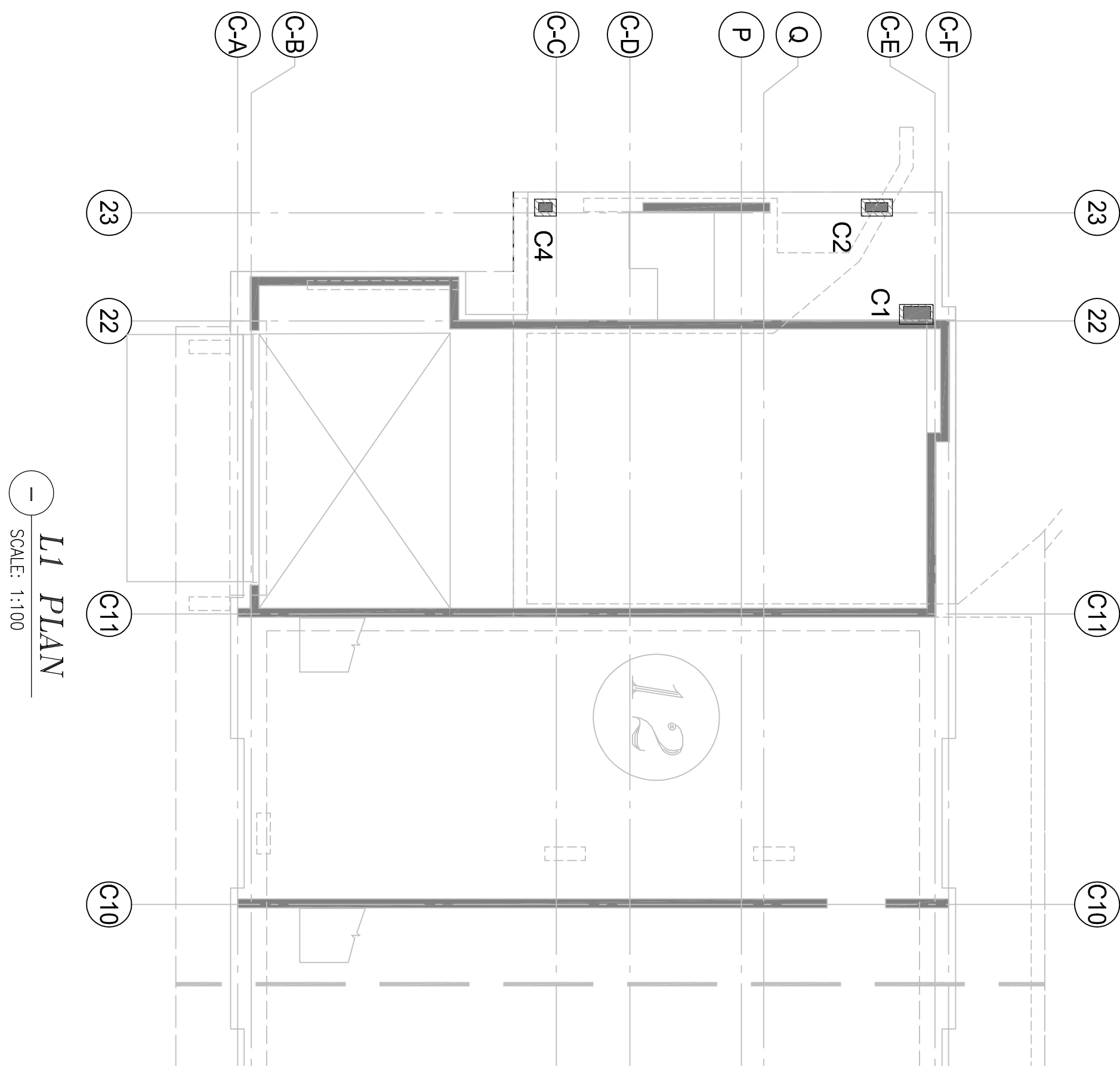
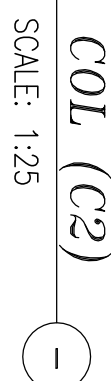
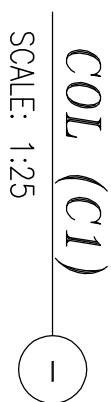
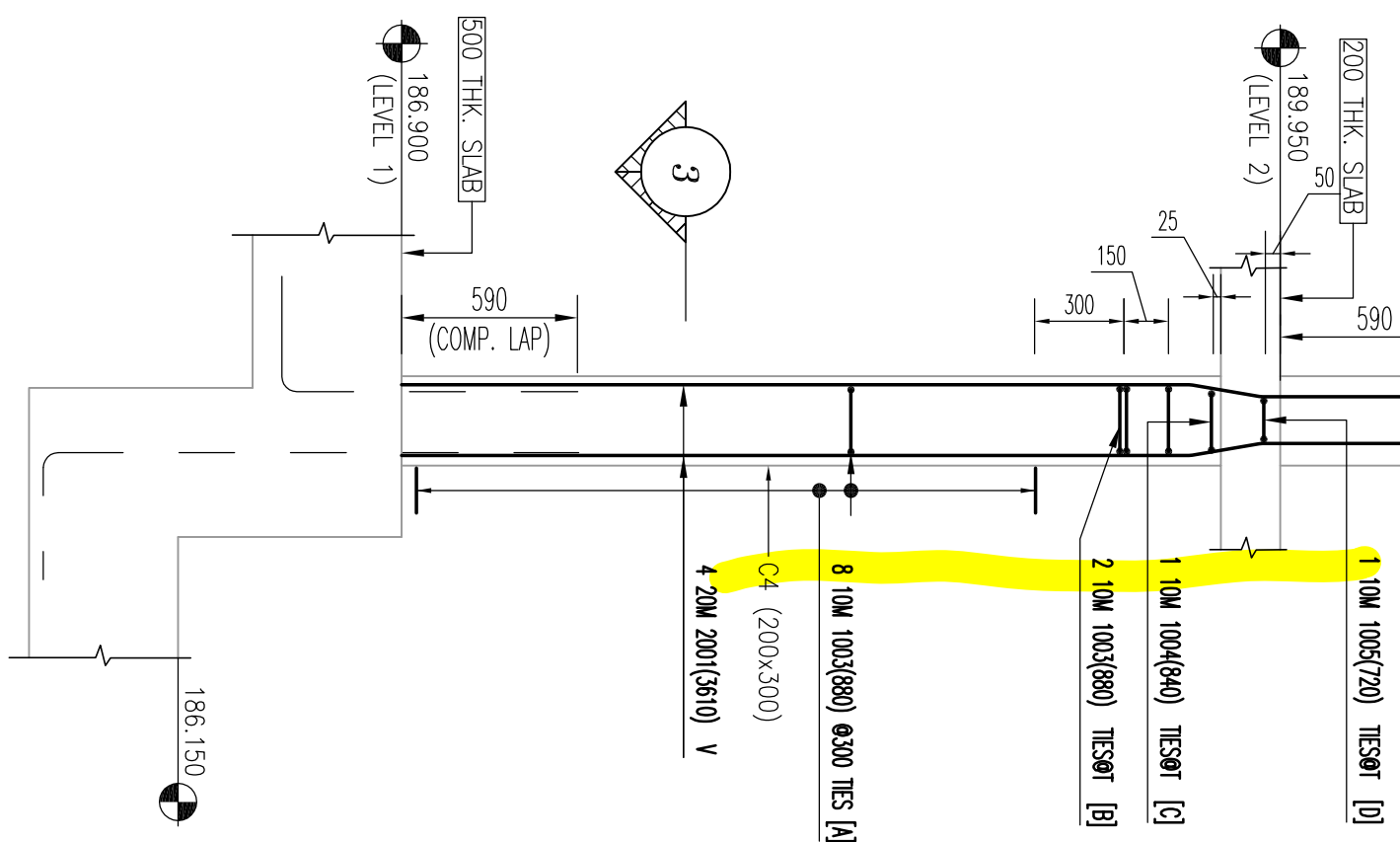
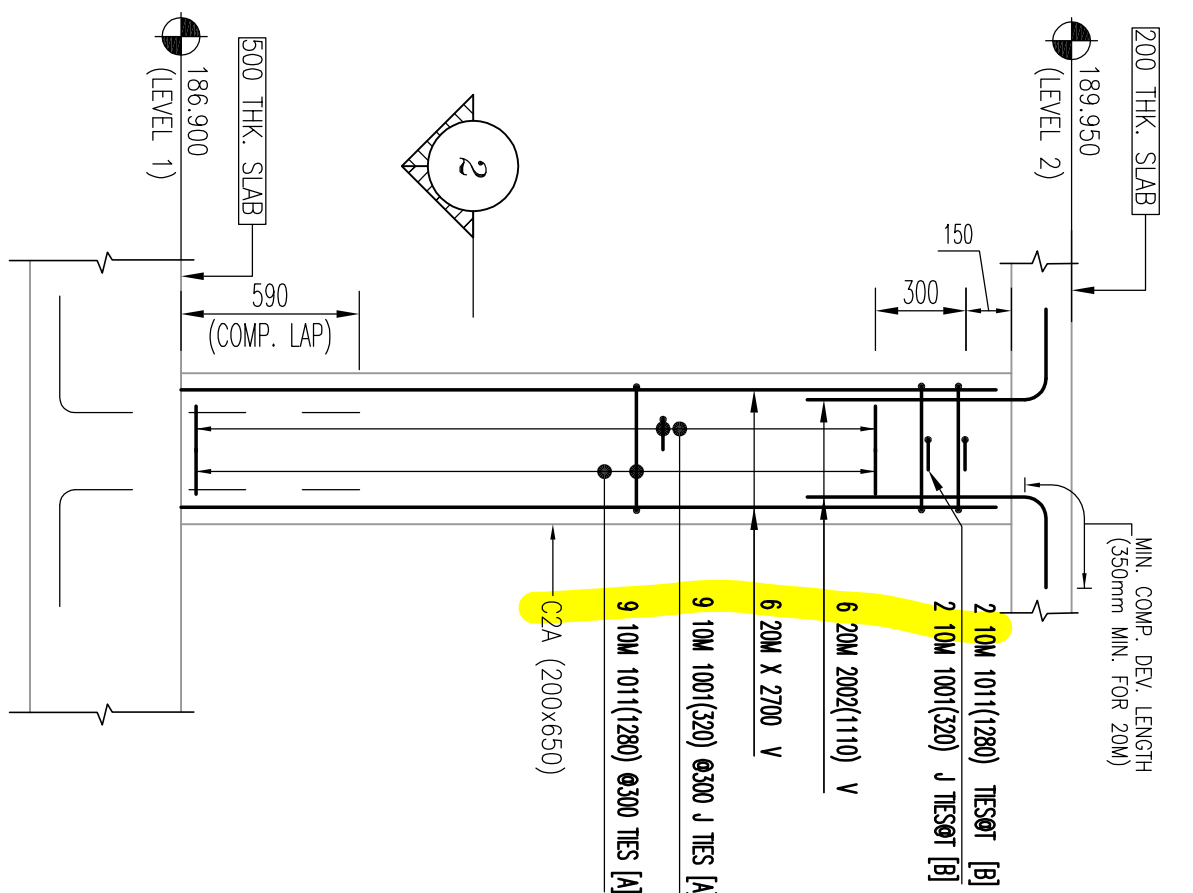
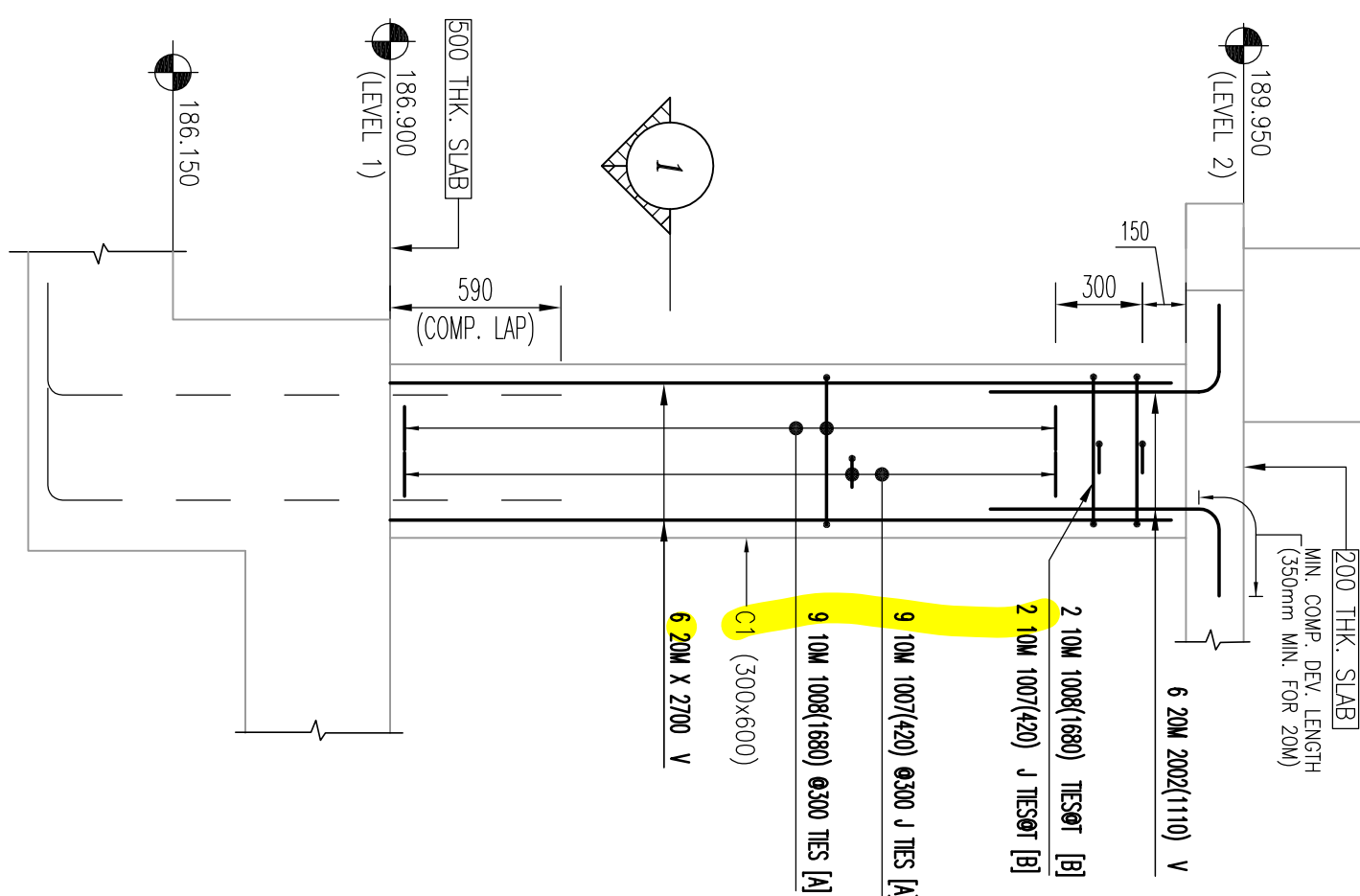
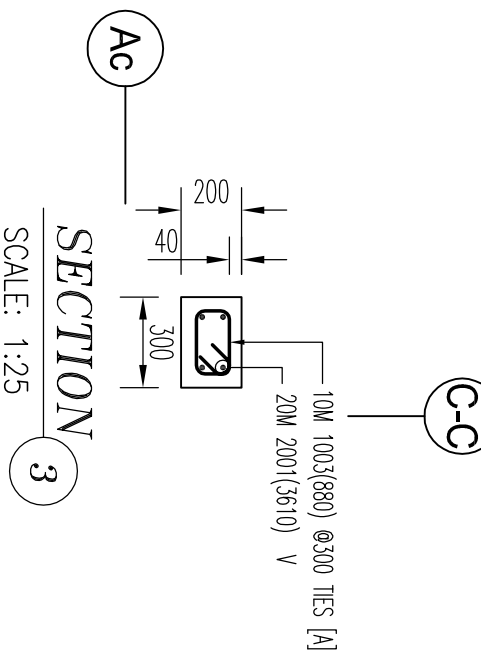
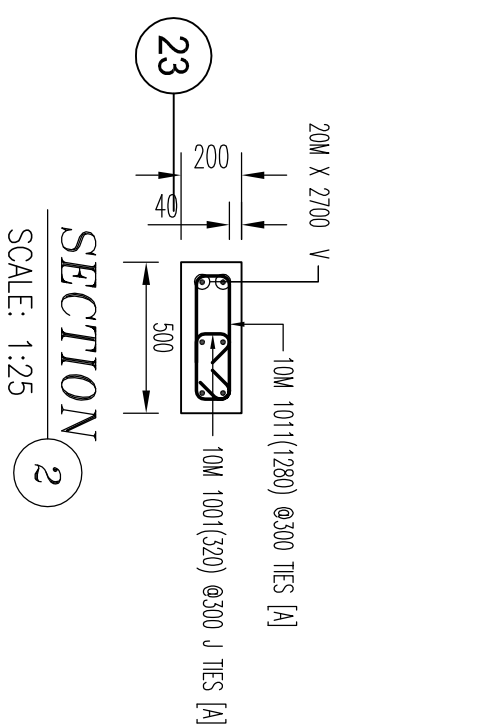
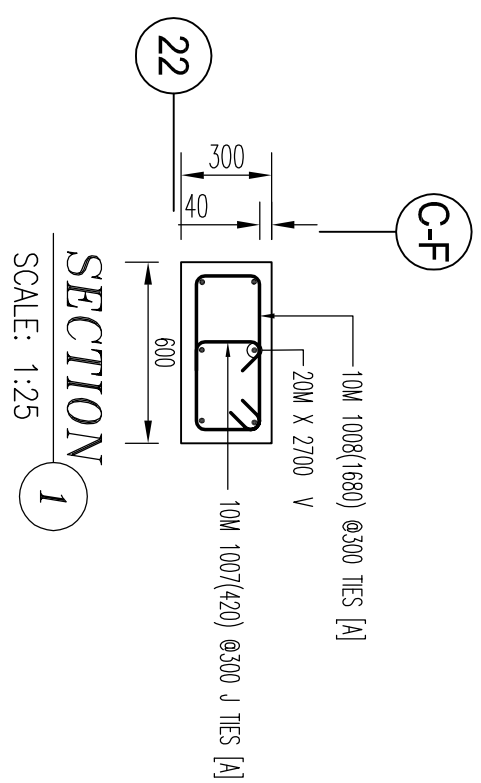
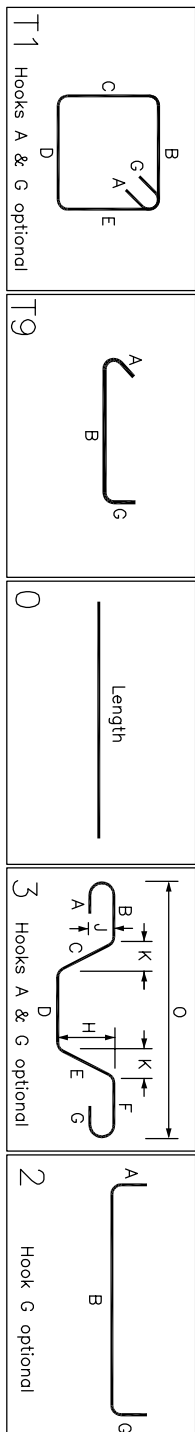
Consulting Engineers

1129 Leslie Street Don Mills, Ont. M3C 2K5

STANDARD BARS LABEL COMBAT		*ELEVATION AND DIMENSIONS SHOWN ARE FOR CONSTRUCTION PURPOSES ONLY AND ARE NOT TO BE USED FOR VERIFICATION AND APPROVED AS IS UNLESS COMMENTED ON THE APPROVAL DRAWING	
L&SNO QUANTITY	B515M X .5600 DOWEL	L&SNO QUANTITY	B515M X .5600 DOWEL
STANDARD BARS LABEL COMBAT		STANDARD BARS LABEL COMBAT	
L&SNO QUANTITY	B515M X .5600 DOWEL	L&SNO QUANTITY	B515M X .5600 DOWEL

✓					
✓					
✓					
✓					
0	FOR APPROVAL	SEP 10 / 21	ju		
ISSUE	REMARKS	DATE	BY		
MANSTEEL  REBAR MANSTEEL REBAR 10-2 Inquart Road, Bonanza Hill, Ontario L4C 2V4 Canada Tel: 905-723-9794 Fax: 905-723-9794 Email: info@mansteel-rebar.com					

FORESTSIDE TOWNHOUSES -BRAMPTON, ONT	
PART OF STRUCTURE COLUMNS L1-L2- P#19	
CUSTOMER : ROYAL PINE HOMES	Project no. 2177
DESIGNED BY: JH CHECKED BY:	SCALE AS SHOWN DRAWING No.
S&A LIST No.	R8.4
	

[illegible]

NOTES	P.L.S. CLARIFY
1. ALL STEEL TO BE GRADE 400W	
2. STRENGTH OF CONCRETE 35MPa – INTERIOR COLUMNS & WALLS	
3. CONCRETE COVER: VERTICALS	-- 30mm

4. COMPRESSION LAP SPLICE

BAR SIZE	STANDARD LAP (mm)
10M	300
15M	440
20M	590
25M	730
30M	880
35M	1030

5. TENSION LAP SPLICE (L/S) & DEVELOPMENT LENGTH (Ld) (FOR WALL OR COL Ld IN CAP OR FTG.)								
BAR SIZE	f _c = 25			f _c = 30			f _c = 35	
	L/S	Ld	L/S	Ld	L/S	Ld	L/S	Ld
10M	490	570	450	350	420	320		
15M	740	570	670	520	620	480		
20M	980	750	890	690	830	640		
25M	1530	1170	1330	1070	1290	990		
30M	1830	1410	1670	1290	1550	1190		

DRAWING REVIEW

✓	No comment	See comment
	Amend & Resubmit	Rejected See Remarks

Submission No.	
Project No.	19066
By	MB
Date	10 Sep 2021

JABLONSKY, AST AND PARTNERS
Consulting Engineers
1129 Leslie Street Don Mills, Ont. M3C 2K5

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